PatBase - Search results 15 March 2018
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Results: 100

Search history

Search 1: PN=(WO2015179941) (Results 1)

Search 2: PN=(wo2015170354) (Results 1)

Search 3: PN=(WO2015179941) (Results 1)

Search 4: [SP]: 1. a structured vegetable fat composition, characterized by comprising: i) from 1 percent to 15 percent by weight of an emulsifier, based on the total weight of the composition, the emulsifier being derived from totally hydrogenated vegetable oils, the emulsifier ranges from 52 to 99 percent of a mixture of monoacylglycerols and diacylglycerols by weight, based on the total weight of the emulsifier, andii) at least one refined vegetable oil selected from refined vegetable oils, which may or may not include fractioned and/or hydrogenated products,wherein said structured composition contains maximum limit of 2 percent of trans fatty acids and exhibits contents of saturated fatty acid lower than or equal to 39 percent by weight, based on the total weight of the composition. 2. the structured vegetable fat compositon according to claim 1, characterized in that the amount of vegetable oils ranges preferably from 85 to 99 percent by weight based on the total weight of the composition. 3. the structured vegetable fat compositon according to claim 1, characterized in that the vegetable oils comprise oleic and linoleic fatty acids. 4. the structured vegetable fat compositon according to claim 1, characterized by comprising preferably from 2 percent to 10 percent by weight of the emulsifier, based on the total weight of the composition. 5. the structured vegetable fat compositon according to claim 1, characterized by comprising a mixture of fatty acids mono- and di-glyceride emulsifier and propylene glycol ester. 6. a process for obtaining the structured fat compositions as defined in any one of claims 1 to 5, characterized by comprising the following steps: a. in a reactor provided with a sleeve, adding a least one vegetable oil selected from refined vegetable oils, their derivatives and mixture thereof, originated from the fractioning and/or hydrogenating processesb. heating the vegetable oil added in step (a) at a temperature that guarantees complete melting of the emulsifier to be added in the next stepc. adding from 1 to 15 percent by weight of an emulsifier, based on the total weight of the composition, to the oil previously heated in step (b), wherein said emulsifier should be derived from totally hydrogenated vegetable oils, the mixture of monoacylglycerols and diacylglycerols portion of the emulsifier ranging from 52 to 99 percent, based on the weight of the emulsifier.d. obtaining a structured fat composition (in its liquid phase)e. keeping the structured composition obtained ion step (d) under the same operational conditions of steps (b) and (c) until complete dispersion of the emulsifier in oilf. subjecting the structured composition in the liquid phase obtained in step (e) to a plasticizing process capable of enabling one to obtain a homogeneous structured fat composition (in its solid phase) and in its more stable crystalline phase andg. obtaining a homogeneous structured fat composition comprising maximum limit of 3 percent trans fatty acids and contents of saturated fatty acids lower than or equal to 39 percent by weight, based on the total weight of the composition,wherein steps (b), (c) and (e) are carried out under constant stirring, and a temperature ranging from 70 to 90 degrees c., depending on the composition of fatty acids present in the emulsified. 7. the process according to claim 8, characterized in that the vegetable oil is chosen from vegetable oils that are sources of oleic and linoleic fatty acids. 8. the process according to claim 7, characterized in that the emulsifier added in step (c) is present in amounts ranging from 1 to 15 percent by weight, based on the total weight of the composition. 9. the process according to claim 6, characterized in that, alternatively, steps (a) to (d) can be replaced by the following steps: i. previously adding an amount of the emulsifier to a portion of vegetable oil in a reactor provided with sleeve, kept at a temperature ranging from 70 to 90 degrees centigrade, to obtain a slurry of said composition andii. obtaining a structured fat composition in pasty form. 10. the process according to claim 9, characterized in that the addition of an amount of the emulsifier to a portion of the vegetable oil of step (i) comprises a massic emulsifier/vegetable oil ratio of 1:1 11. the use of a structured vegetable fat composition as defined in any one of claims 1 to 5, characterized by being in the preparation of food products. 12. a product, characterized by comprising a structured fat composition as defined in any one of claims 1 to 5. 13. a food product according to claim 12, characterized by exhibiting the behavior of: a. keeping the texture at a temperature ranging from 20 to 30 degrees centigrade and/orb. crystallizing, in about 5 minutes at a temperature of 25 degrees centigrade, reaching stabilization of the maximum contents of solids in up to 30 minutes and/orc. exhibiting better consistency and being capable of remaining solid even at body temperature and/ord. providing better incorporation of ingredients and air into the dough during the beating process and/ore. imparting thermal stability to the product, wherein no separation of oil takes place along the whole shelf-live. 14. the food product according to claim 13, characterized in that: i. when the food product exhibits the behavior (a) and (b), it is selected from margarines, melanges, ice creams, and fillings of bonbons, biscuitsii. when the food product exhibits the behavior (b), it is broth in cubesiii. when the food product exhibits the behavior (c), it is selected from cakes, bonbons, and biscuitsiv. when the food product exhibits the behavior (d), it is selected from cake dough panettone dough and cookie doughv. when the food product exhibits the behavior (e), it is selected from sweet creams, including hazelnut cream, chocolate-taste cream, cracking-type cream, peanut cream. 15. use of the structured vegetable fat composition as defined in any one of claims 1 to 5, characterized by being in the preparation of a cosmetic composition. 16. a cosmetic composition, characterized by comprising: (i) from 1 percent to 15 percent by weight based on the total weight of the composition of an emulsifier, based on the total weight of the composition wherein the emulsifier is derived from totally hydrogenated vegetable oils, the mixture of monoacylglycerols and diacylglycerols portion of the emulsifier ranging from 52 to 99 percent by weight based on the total weight of the emulsifier and(ii) at least one refined vegetable oil, originated from fractioning and/or hydrogenating processes, associated to one or more cosmetically active ingredients. (Results 0)

Search 5: [SP]: [0001] in a comprehensive way, the present invention relates to the sector of edible oils and fats. basically, it relates to a vegetable-fat food composition used in the manufacture of food products, such as dough, margarines, cookies, ice-creams, melanges, cube broths, sweet creams and fillings of food products such as cakes, biscuits, bonbons, and similar products. and more specifically, it relates to the production of fats with low and/or reduced contents of saturated fatty acids based on vegetable oils and structuring agents rich in monoacylglycerols.background of the invention[0002] the replacement of partially hydrogenated fats in food products, mainly in shortenings and confectionary products constitutes, at present, a challenge, since desired properties of crystallization and texture are difficult to achieve, mainly when there is absence of trans fatty acids (reyeshernandes et al, 2007). in most cases, this texture is achieved by increasing the contents of saturated fatty acids ion the products, which is a further component that is nutritionally questioned.[0003] although numberless studies have been developed in this area, the exploitation of new raw materials and/or combinations thereof is a preponderant factor for obtaining new fatty fractions that can be employed in the widest variety of food products, without restrictions of technological or functional nature.[0004] the crystallization of fats is a critical factor associated to the structuring and other properties of a large part of foods. the stability of many processed products is influenced by changes in the physical state of the fats and alterations in the crystallization processes, since the events of nucleation and crystalline growth take place simultaneously at different rates, because they are affected by conditions of the process, such as degree and rates of overcooling, viscosity of the medium and stirring (toro-vazquez et al., 2005).[0005] the structure of many food products is based on crystalline networks of totally saturated triacylglycerol (tg), known as "hardfat". the latter contain high levels of saturated fatty acids, which are among the factors that contribute to cardiovascular diseases. so, it would be desirable to have alternative pathways to increase the crystalline structure of edible oils (metin and hartel, 2005).[0006] in spite of the good structuring capability, hardfats contain a larger number of saturated fatty acids, which are considered harmful to health, since their presence in the diet is one of the factors that contribute to cardiovascular diseases (keys anderson and grande, 1965 mensink et al, 2003).[0007] the use of emulsifiers (mono- and di-acylglycerols) as structuring agents emerges as an alternative to obtaining low-sat fats with adequate consistency by virtue of their action mode, which seems to impart to the oils

induction to crystallization and formation of a crystalline network that provide them with adequate textures.[0008] among the structural agents that have received attention in the past few years are: mono- (mg) and diacylglycerols (dg), fatty acids, fatty alcohols, waxes, wax esters, sorbitan esters and phytosterols. one can see that the most efficient agents form a small-size structuring network, preferably with non-spherical particles. the mixture of components often provides superior structuring as compared with the use of pure components. a simple analysis of the pure components can be feasible. however, the number of options provided by the mixture requires guided selection, for which understanding the underlying mechanism is essential (metin and hartel, 2005).[0009] a deep understanding of the underlying behavior of the structuring agents in lipidic phase is necessary to find such alternatives. additional studies aimed at understanding them are essential to enable one to plan the process. this is relevant chiefly because some of the systems that are most interesting in structuring crystalline networks are constructed by mixing components.[0010] ingredients with limited solubility, which precipitate during the formation of a gel are capable of providing the oils with structure. the structuring agents may be macromolecules such as polymers or proteins, compounds of low molecular weight, such as fatty acids, fatty alcohols, or tg.[0011] the interactions between the elements may be of different nature, as for instance covalent bonds, electrostatic forces, hydrogen bridges, van der waals' forces or steric impediments. in general, the formation of a three-dimensional network is carried out by structuring the elements, which act as building blocks. usually only a small number of building blocks are necessary to create a network. the commonest examples of this type of structure are gels and crystallized fat. these structures are used in different applications, such as pharmaceutics and cosmetics (carretti dei and weiss, 2005 singh et al, 2004).[0012] document us2002/0114874, for example, relates to the use and process of producing vegetable fats (allanblakia sp. and pentadesma sp.) in emulsions composed by triacylglycerols, the fat phase of which is a mixture of 50-99 percent w/w of vegetable oils and 1-50 percent w/w of vegetable fats. more specifically, this document foresees the preparation of a water/oil emulsion comprising from 20 to 70 percent of an aqueous phase dispersed in 30-80 percent of an oily phase, wherein the oily phase proposed, for instance, for the formation of a margarine, is constituted by a triacylglycerol containing high contents of triacyglycerol sos, wherein s=stearic acid and o=oleic acid. additionally, us 2002/0114874 relates to the use of the fats obtained from these plants as hardstock fat without physical or chemical modification, as long as the minimum contents of 48 percent of sos is present (ranging from 45 to 50 percent).[0013] the sources of triacylglycerols embraced in the us document in question are obtained from an african plant allanblackia, for instance, of the species a. floribunda and a. stuhlmannii, which may present up to 60-80 percent of sos and low contents of sss, wherein s=stearic acid. the document further foresees the possibility of using another african plant coming from pentadesma butyracea, of similar triacylglycerol structure (48 percent of sos). as to the emulsion, it is obtained by using a liquid oily fraction (canola oil, sunflower-seed oil, cotton oil, soybean oil, olive oil or mixture of other oils) at 70 percent plus 30 percent of hardfat, subjected to crystallization with aqueous fraction often employed for preparing margarines.[0014] thus, document us 2002/0114874 differs from the proposed invention chiefly in that the formulated product is a water-in-oil emulsion. besides, the structuring described in the us document takes place by adding hardfat to the fat, that is, through the most widely used technique, and is restricted to the production of margarines. finally, it was observed that the sources indicated in the us document, in this case, fats from allanblackia or pentadesma, which contains in its composition 65 percent and 48 percent of triacylglycerols of the sus type, respectively, are of difficult commercial access, which makes the use on large scale difficult due to the little offer of a regional product.[0015] on the other hand, document us2003/0054082 relates to food compositions with oils and fats comprising from 5 to 100 percent w/w of monoacylglycerols (mg) and/or di-acylglycerols (dg), exhibiting omega-3 unsaturated fatty acids ranging from 15 to 90 percent w/w, with a view to reduce body fat and visceral fat in treatments of obesity. more specifically, these compositions are sued in preparing foods, pharmaceutical products and pet-food or feed, providing the consumption of large amounts of monoacylglycerols (mg) and di-acylglycerols (dg), instead of using triacylgrycerols (tg).[0016] the proposal described in the us document recommends ranges from 40 to 100 percent, preferably from 80-95 percent in the use of two combined products (in this case, mg and dg) and indicates the need to include omega-3 fatty acid in their structure, indicating 20 to 80 percent, preferably from 40 to 65 percent, wherein mg and dg may be used either separately or mixed with each other.[0017] additionally, the us document proposes various feasible glyceride mixtures, with the concern of having a stability index that preserves the quality of the product worked out. for this purpose, this document suggests addition of anti-oxidant products that demonstrated oxidative stability longer than 7 hours, according to the data of rancimat. studies with laboratory animals also prove the reduction of obesity, according to said document.[0018] unlike the proposed invention, which has the objective of structuring the lipids in order to improve the technological conditions of use (without increasing the contents of saturated fatty acids), document us2003/0054082 has the objective of producing an oil or fat containing from 5 to 100 percent mg and/or dg, of which the oxidative stability is of at least 7 hours at 100 degrees centigrade, wherein the mg and/or dg contains in its composition from 15 to 90 percent of polyunsaturated fatty acids of the omega-3 series, without, however, indicating high contents of dg in the oil or proposing addition of mg in high contents. this composition, according to information of the document itself, is effective for reducing body fat and visceral fat, and in preventing and treating obesity.[0019] document us2010/026768, for instance, describes an oil or fat composition comprising 15 percent w/w or more diacylglycerols, contents of unsaturated and conjugated (cla) fatty acids of 80 percent w/w or (Results 0)

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1) Family number: 60967201 (US2017112159A)

Title: STRUCTURED VEGETABLE FAT COMPOSITIONS, A PROCESS FOR OBTAINING SAME AND USE THEREOF

Abstract: Source: US2017112159A [EN] The present invention is inserted in the sector of edible oils and fats. Basically, it relates to a vegetable fat food composition used in making food products, such as dough, margarines, cookies, ice creams, melanges, broth in cubes, sweet creams and fillings for food products such as cakes, biscuits, bonbons, and the like. And more specifically, it relates to the production of fats with low contents of saturated fatty acids based on vegetable oils and structuring agents rich in monoacylglycerols.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/01 A23D9/013 A23G3/40 A23G9/32 A23L1/30 A23L1/38 A23L1/40 A23L23/10 A23L25/10 A23L33/10 A23L33/115 A61K8/37 A61K8/92 A61Q19/00 (Advanced/Invention)
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US: 514/783

PatBase – US2017112159_AA

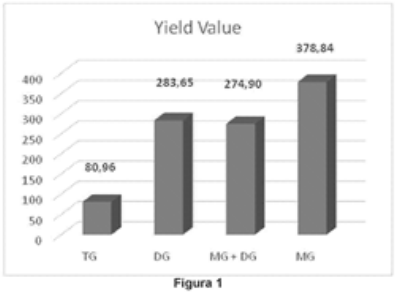


Figura 1

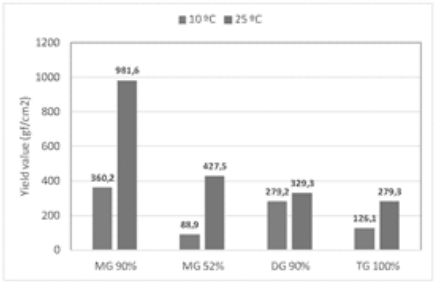


Figura 2

Family:

Publication number	Publication date	Application number	Application date
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BR112016027070 A2	20170822	BR20161127070	20150529
CO20160005556 A2	20170331	CO20160005556	20161220
EP3148344 A1	20170405	EP20150731831	20150529
MX2016015701 A1	20170530	MX20160015701	20150529
PE02502017 A1	20170412	PE20160002492	20150529
US2017112159 AA	20170427	US20150314753	20150529
WO15179941 A1	20151203	WO2015BR50064	20150529

Priority:
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Legal status (INPADOC)

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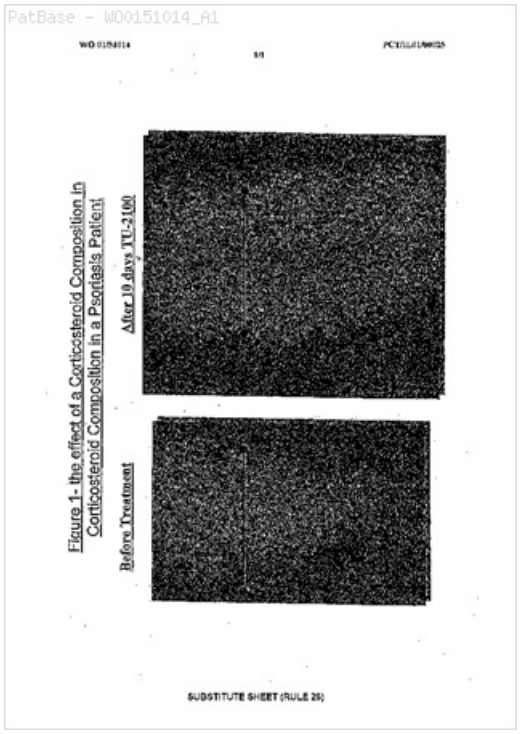
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US2017112159 AA	20170427	LSPB	+	published / reissued	
WO15179941 A1	20151203	LSPB	+	published / reissued	
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2) Family number: 28577079 (US2002132035A)

Title: SYNTHETIC FAT COMPOSITION

Abstract: Source: US2002132035A [EN] An oil or fat composition comprising an oil or fat comprising 15 weight percent or more of a synthetic fat and oil and 0.2 to 20 weight percent of a and edible solidifying agents, in particular long chain fatty acids and/or long chain fatty alcohols, dissolved or dispersed in the synthetic fat and oil is provided here, which can be used in the same way as usual oil and fat in daily life to provide health benefits, while avoiding problems in appearance, taste, heating cooking and the like in comparison with usual edible oil and fat.



Classifications:

International (IPC 8-9): A21D13/08 A21D2/14 A21D2/16 A23C11/04 A23C13/12 A23C15/16 A23C19/055 A23C19/093 A23C9/13 A23D7/00 A23D7/005 A23D7/01 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23D9/02 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23J3/22 A23K1/16 A23L1/00 A23L1/16 A23L1/164 A23L1/18 A23L1/19 A23L1/217 A23L1/30 A23L1/314 A23L1/40 A61K31/00 A61K31/07 A61K31/16 A61K31/197 A61K31/20 A61K31/225 A61K31/23 A61K31/25 A61K31/351 A61K31/355 A61K31/357 A61K31/4188 A61K31/43 A61K31/4353 A61K31/4415 A61K31/455 A61K31/496 A61K31/51 A61K31/525 A61K31/545 A61K31/57 A61K31/59 A61K31/65 A61K31/7048 A61K31/714 A61K31/74 A61K33/04 A61K33/06 A61K33/14 A61K33/18 A61K33/24 A61K33/26 A61K33/30 A61K33/32 A61K33/34 A61K35/60 A61K36/00 A61K36/738 A61K36/899 A61K38/02 A61K38/13 A61K45/00 A61K45/06 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/44 A61K47/46 A61K7/00 A61K7/06 A61K7/48 A61K8/00 A61K8/02 A61K8/06 A61K8/18 A61K8/34 A61K8/36 A61K8/365 A61K8/92 A61K8/97 A61K8/98 A61K9/00 A61K9/06 A61P1/10 A61P1/14 A61P13/12 A61P17/00 A61P17/02 A61P17/04 A61P17/06 A61P17/08 A61P17/10 A61P29/00 A61P3/02 A61P3/06 A61P3/10 A61P31/04 A61P35/00 A61P37/02 A61P7/02 A61P7/04 A61P9/10 A61P9/12 A61Q19/00 (Advanced/Invention);
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A61K47/14 A61K9/00 (Core/Non-invention);
A23D A23L A61K (Subclass/Invention)

International (IPC 1-7): A21D13/08 A21D2/14 A23B4/00 A23C19/055 A23D7/00 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G9/02 A23L A23L1/19 A23L1/30 A23L2/52 A61K31/07 A61K31/197 A61K31/23 A61K31/355 A61K31/357 A61K31/4188 A61K31/4415 A61K31/455 A61K31/51 A61K31/525 A61K31/59 A61K31/714 A61K31/74 A61K33/04 A61K33/06 A61K33/14 A61K33/18 A61K33/24 A61K33/26 A61K33/30 A61K33/32 A61K33/34 A61K35/60 A61K35/78 A61K45/00 A61K47/00 A61K47/02 A61K47/10 A61K47/12 A61K47/44 A61K7/00 A61K7/06 A61K7/48 A61K9/00 A61K9/06 A61K9/08 A61K9/10 A61K9/70 A61P1/10 A61P1/14 A61P13/12 A61P17/00 A61P17/02 A61P17/04 A61P17/06 A61P17/08 A61P17/10 A61P29/00 A61P3/02 A61P3/06 A61P3/10 A61P31/04 A61P35/00 A61P37/02 A61P7/02 A61P7/04 A61P9/10 A61P9/12

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European: A21D2/14 A21D2/16 A23C11/04 A23C13/12 A23C15/16 A23C19/055 A23C19/093 A23C9/13D A23D7/005N A23D7/005S A23D7/015 A23D7/01N A23D7/01S A23D9/007 A23D9/013 A23G1/00 A23G1/00+D8 A23G1/00K A23G1/00K+D8 A23G1/00M A23G1/00M+D8 A23G1/30C A23G1/36 A23G1/38 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23J3/22C2 A23K1/16I A23L1/00P8B8 A23L1/16 A23L1/164B A23L1/18C6 A23L1/217 A23L1/30C A23L1/314B10 A23L1/40 A61K31/20 A61K31/225 A61K31/23 A61K31/25 A61K31/351 A61K31/43 A61K31/496 A61K31/545 A61K31/573 A61K31/65 A61K36/738 A61K36/899 A61K45/06 A61K47/06 A61K47/10 A61K47/12 A61K47/14 A61K47/44 A61K8/34C A61K8/92C A61K9/00 A61K9/00M3 A61Q19/00 K23G200/08 K61K47/10 K61K47/14 K61K47/44 K61K9/00M16

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Family:

Publication number	Publication date	Application number	Application date
AU200123936 A1	20010724	AU20010023936	20010110
AU200123936 A5	20010724	AU20010023936	20010110
AU200123937 A1	20010724	AU20010023937	20010110
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US2002132035 AA	20020919	US20010883721	20010618
US2003099747 AA	20030529	US20020169804	20020709
US2003143312 AA	20030731	US20020174163	20020618
US2003157138 AA	20030821	US20030392071	20030319
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US2010137198 AA	20100603	US20100705219	20100212
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US6348229 BA	20020219	US20000526509	20000316
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WO02102169 A3	20030515	WO2002IB03299	20020618

Priority:

IL20000133968	20000110	IL20000133969	20000110	IL20000137051	20000627
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WO2001IL00025	20020717				

Probable Assignee: FOAMIX PHARMACEUTICALS LTD

Assignee(s): (std): EINE MEIR ; EINI MEIR ; FOAMIX LTD ; TAMARKIN DOV ; THIXO LTD ; PELED MICHA ; GADPRO TECHNOLOGIES LTD ; D R BIKE LTD ; DAVID REINGEWIRTZ

Assignee(s): DOV TAMARKIN ; DR BIKE LTD ; FOAMIX PHARMACEUTICALS LTD ; MEIR EINI

Inventor(s): (std): EINE MEIR ; EINI MEIR ; PELED MICHA ; TAMARKIN DOV

Inventor(s): MEIR EINI ; DOV TAMARKIN

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; SMART AND BIGGAR; WILMER CUTLER PICKERING HALE AND DORR LLP; WILMERHALE/BOSTON; WILMERHALE BOSTON; HALE AND DORR LLP; WILMER CUTLER; FISH AND RICHARDSON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200123936 A1	20010724	LSPB	+	published / reissued	
AU200123937 A1	20010724	LSPB	+	published / reissued	
AU782515 B2	20050804	LSGT	+	granted / extensions (spc, cpc, pte)	
AU782515 B2	20040617	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : FOAMIX LTD OLDPARTY : THE FORMER OWNER WAS: MEIR EINI, DOV TAMARKIN
AU782515 B2	20210110	PEXP		Calculated Patent Term Expiry	
CA2396071 AA	20020709	LSPB	+	published /	

				reissued	
CA2396071 AA	20050110	LSLE	-FZDE	DEAD	
CA2397068 AA	20020709	LSPB	+	published / reissued	
CA2397068 AA	20060103	LSES	+EEER	EXAMINATION REQUEST	
CA2397068 AA	20100111	LSLE	-FZDE	DEAD	
EP1246538 A1	20021009	LSPB	+	published / reissued	
EP1246538 A1	20021009	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020720
EP1246538 A4	20030402	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20030217
EP1246538 A4	20040623	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040512
EP1246538 A4	20050202	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20040803
EP1250116 A1	20021023	LSPB	+	published / reissued	
EP1250116 A1	20021023	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020809
EP1250116 A1	20030319	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : THIXO LTD.
EP1250116 A1	20030319	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : TAMARKIN, DOV
EP1250116 A1	20031105	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : EINI, MEIR
EP1250116 A1	20031105	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : TAMARKIN, DOV
EP1250116 A1	20050105	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : FOAMIX LTD.
EP1250116 A4	20061227	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20061123
EP1250116 A4	20061227	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 9/00 20060101AFI20061117BHEP
EP1250116 A4	20070822	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20070725
EP1250116 A4	20130123	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20120801
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IN221380 B	20220710	PEXP		Calculated Patent Term Expiry	
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JP2003528821 T2	20040518	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20040517
JP2003528821 T2	20040615	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20040517

JP2004500075 T2	20040108	LSPB	+	published / reissued	
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NZ520014 A	20040625	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : FOAMIZ LTD, IL OLDPARTY : OLD OWNER(S): MEIR EINI; DOV TAMARKIN
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NZ520014 A	20080131	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ520014 A	20110128	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ520014 A	20140725	LSLE	-LAPS	PATENT LAPSED	
US2002132035 AA	20020919	LSPB	+	published / reissued	
US2002132035 AA	20040128	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2003099747 AA	20030529	LSPB	+	published / reissued	
US2003099747 AA	20020709	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THIXO LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EINI, MEIR; TAMARKIN, DOV; REEL/FRAME:013174/0364 EFFECTIVE DATE : 20020702
US2003099747 AA	20041006	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2003143312 AA	20030731	LSPB	+	published / reissued	
US2003143312 AA	20021119	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THIXO LIMITED, ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TAMARKIN, DOV; EINI, MEIR; PELED, MICHA; REEL/FRAME:013509/0290 EFFECTIVE DATE : 20021027
US2003143312 AA	20040324	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2003157138 AA	20030821	LSPB	+	published / reissued	
US2004253275 AA	20041216	LSPB	+	published / reissued	
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US2006088561 AA	20060427	LSPB	+	published / reissued	
US2010137198 AA	20100603	LSPB	+	published / reissued	
US2013184242 AA	20130718	LSPB	+	published / reissued	
US2013184242 AA	20130716	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

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US2013184242 AA	20140108	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013184242 AA	20140730	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FOAMIX PHARMACEUTICALS LTD., ISRAEL OLDPARTY : CHANGE OF NAME; ASSIGNOR:FOAMIX LTD.; REEL/FRAME:033446/0129 EFFECTIVE DATE : 20140601
US6348229 BA	20020219	LSGT	+	granted / extensions (spc, cpc, pte)	
US6348229 BA	20000828	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THIXO LTD., ISRAEL OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNOR NAME AND ASSIGNEE ADDRESS, FILED ON 4-18-00 RECORDED ON REEL 010755 FRAME 0163; ASSIGNORS:EINI, MEIR; TAMARKIN, DOV; REEL/FRAME:011173/0073 EFFECTIVE DATE : 20000418
US6348229 BA	20001221	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THIXO LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EINI, MEIR; TAMARKIN, DOV; REEL/FRAME:011416/0392 EFFECTIVE DATE : 20000418
US6348229 BA	20060221	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6348229 BA	20060322	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6348229 BA	20060418	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20060219
US6348229 BA	20200316	PEXP		Calculated Patent Term Expiry	
US6911211 BB	20050628	LSGT	+	granted / extensions (spc, cpc, pte)	
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US6911211 BB	20050608	LSGT	PAT1	Patented Case	
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US6911211 BB	20121002	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6911211 BB	20140730	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FOAMIX PHARMACEUTICALS LTD., ISRAEL OLDPARTY : CHANGE OF NAME; ASSIGNOR:FOAMIX LTD.; REEL/FRAME:033445/0249 EFFECTIVE DATE : 20140601
US6911211 BB	20161219	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

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US6967023 BA	20040507	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FOAMIX LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EINI, MEIR; TAMARKIN, DOV; REEL/FRAME:014608/0039 EFFECTIVE DATE : 20040208
US6967023 BA	20051102	LSGT	PAT1	Patented Case	
US6967023 BA	20061121	LSRE	CC	CERTIFICATE OF CORRECTION	
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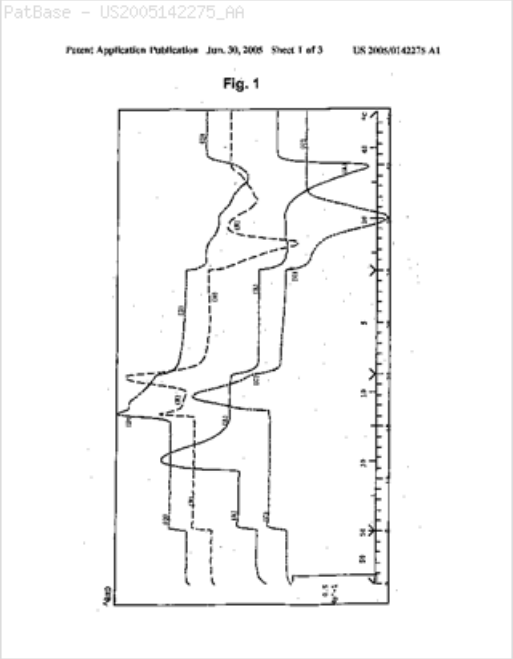
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WO0151014 A1	20051215	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 23937/01 COUNTRY OF REF DOCUMENT : AU
WO02102169 A2	20021227	LSPB	+	published / reissued	
WO02102169 A3	20040429	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02102169 A3	20040728	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO02102169 A3	20060426	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO02102169 A3	20060426	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP

3) Family number: 30143471 (US2005142275A)

Title: NON-LAURIC, NON-TRANS, NON-TEMPER FAT COMPOSITIONS

Abstract: Source: US2005142275A [EN] A non-lauric, non-trans, non-temper (Non-LTT) fat composition comprising a fraction obtained from a randomised triglyceride mixture in which min. 90 percent by weight of the constituent fatty acids are: palmitic (C16:0), stearic (C18:0), arachidic (C20:0) behenic (C22:0), oleic (C18:1) and linoleic (C18:2) acid and the total content of arachidic and behenic acid is 3-40 percent by weight and the total content of palmitic and stearic acids is 25-60 percent by weight, said fraction having the following physical and chemical properties: (1) slip melting point measured according to AOCS Cc 3-25: below 36 degrees centigrade and solid fat content (SFC) measured according to IUPAC 2.150 mod. (stabilised at 20 degrees centigrade for 24 h): above 25 percent by weight at 20 degrees centigrade; (2) total content of saturated fatty acids measured according to IUPAC 2.301 and 2.304: 40-75 percent by weight, preferably 45-70 percent by weight; (3) total content of arachidic and behenic acids: 3-40 percent by weight, preferably 5-35 percent by weight, and total content of palmitic and stearic acids: 25-60 percent by weight, preferably 25-50 percent by weight, both measured according to IUPAC 2.301 and 2.304; (4) total content of triglycerides having triglyceride composition (TGC) of C56-C60 measured by number of total carbon atoms of constituent fatty acids according to IUPAC 2.323: min. 9 percent by weight, preferably min. 15 percent by weight; (5) total content of S_2U-type triglycerides: min. 25 percent by weight, preferably min. 35 percent by weight, where S=saturated fatty acids and U=unsaturated fatty acids.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C13/14 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G1/52 A23G1/56 A23G3/00 A23G3/34 A23G3/40 A23G3/50 A23L1/30 A61K31/23 A61K8/00 A61K8/30 A61K8/37 A61K8/92 A61Q1/00 A61Q1/04 A61Q1/06 A61Q19/00 C11B7/00 C11C3/00 C11C3/10 C12P7/64 (Advanced/Invention);
A21D13/00 A23D9/00 A23G1/00 A23G3/00 A23L1/30 A61K31/21 C11B7/00 C11C3/00 (Core/Invention)
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US: 426/601 426/601P 426/607



Family:

Publication number	Publication date	Application number	Application date
AT425672 E	20090415	AT20020787419T	20021101
AU2002351706 AA	20030512	AU20020351706	20021101
BRPI0213819 A	20040831	BR2002PI13819	20021101
BRPI0213819 B1	20150609	BR2002PI13819	20021101
CA2465083 AA	20040428	CA20022465083	20021101
DE60231635 D1	20090430	DE20026031635	20021101
DK1439758 T3	20090615	DK20020787419T	20021101
EP1439758 A1	20040728	EP20020787419	20021101
EP1439758 B1	20090318	EP20020787419	20021101
ES2322138 T3	20090617	ES20020787419T	20021101
IN01029DN2004 A	20060728	IN2004DN01029	20040419
JP2005507028 T2	20050310	JP20030539451T	20021101
JP4578099 B2	20101110	JP20030539451T	20021101
RU2004114839 A	20050610	RU20040114839	20021101
RU2303363 C2	20070727	RU20040114839	20021101
US2005142275 AA	20050630	US20040832344	20040427
US7309508 BB	20071218	US20040832344	20040427
WO03037095 A1	20030508	WO2002DK00728	20021101

Priority:

DK20010001634 20011102 US20010331713P 20011121 US20040832344 20040427 WO2002DK00728 20021101

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Assignee(s): AARHUSKARLSHAMN DENMARK A S ; AARKHUSKARLSKHAMN DENMARK A S ; AARHUS UNITED DENMARK A S ; AARHUSKARLSHAMN DENMARK A AND S ; AARHUS UNITED A S ; AAK DENMARK A S ; AARHUS OLIEFABRIK A S

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Inventor(s): BJARNE JUUL ; MOGENS BACH ; JUUL B'JARNE

Agent(s): OGILVY RENAULT LLP SENCRL SRL; OLSEN LARS PALLISGAARD ET AL; NAGANUMA TERUO; IKEDA YUKIHIRO; ASAMURA HAJIME; ASAMURA KIYOSHI; STEPTOE AND JOHNSON LLP, BOX PTO; STEPTOE AND JOHNSON LLP BOX PTO; STEPTOE AND JOHNSON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT425672 E	20090415	LSGT	+	granted / extensions (spc, cpc, pte)	
AT425672 E	20091115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 1439758 COUNTRY OF REF DOCUMENT : EP
AT425672 E	20221101	PEXP		Calculated Patent Term Expiry	
AU2002351706 AA	20030512	LSPB	+	published / reissued	
BRPI0213819 A	20040831	LSPB	+	published / reissued	
BRPI0213819 A	20060516	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : AARHUS UNITED DENMARK A/S (DK) OLDPARTY : TRANSFERIDO DE: AARHUS UNITED A/S
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BRPI0213819 A	20130917	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0213819 A	20150210	LSGT	B09A	DECISION: INTENTION TO GRANT	
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BRPI0213819 B1	20221101	PEXP		Calculated Patent Term Expiry	
CA2465083 AA	20040428	LSPB	+	published / reissued	
CA2465083 AA	20071009	LSES	+EEER	EXAMINATION REQUEST	
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DK1439758 T3	20090615	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1439758 A1	20050629	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AARHUS UNITED DENMARK A/S
EP1439758 A1	20060510	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AARHUSKARLSHAMN DENMARK A/S
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EP1439758 B1	20170630	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1439758 B1	20170704	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1439758 B1	20170715	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 425672 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20161101
EP1439758 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161101

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ES2322138 T3	20221101	PEXP		Calculated Patent Term Expiry	
IN01029DN2004 A	20060728	LSPB	+	published / reissued	
JP2005507028 T2	20050310	LSPB	+	published / reissued	
JP2005507028 T2	20050513	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20050411

JP2005507028 T2	20050926	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050922
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JP2005507028 T2	20090522	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20090521
JP2005507028 T2	20090613	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20090522
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JP2005507028 T2	20100527	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100526
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JP2005507028 T2	20100902	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20100824
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JP2005507028 T2	20100903	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
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JP4578099 B2	20100831	LSFE	R100	特許料納付書 Patent fee payment form	
JP4578099 B2	20130829	LSFE	R20	特許料納付書 Patent fee payment form	
JP4578099 B2	20130903	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4578099 B2	20140828	LSFE	R20	特許料納付書 Patent fee payment form	
JP4578099 B2	20140902	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250

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JP4578099 B2	20150312	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP4578099 B2	20150903	LSFE	R20	特許料納付書 Patent fee payment form	
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RU2303363 C2	20070727	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2303363 C2	20150427	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
RU2303363 C2	20170719	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20161102
RU2303363 C2	20221101	PEXP		Calculated Patent Term Expiry	
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US7309508 BB	20071218	LSGT	+	granted / extensions (spc, cpc, pte)	
US7309508 BB	20071128	LSGT	PAT1	Patented Case	
US7309508 BB	20080610	LSRE	CC	CERTIFICATE OF CORRECTION	
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US7309508 BB	20150521	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7309508 BB	20251208	PEXP		Calculated Patent Term Expiry (PTA 590 days)	

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WO03037095 A1	20040428	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2465083 COUNTRY OF REF DOCUMENT : CA
WO03037095 A1	20040430	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003539451 COUNTRY OF REF DOCUMENT : JP
WO03037095 A1	20040521	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002787419 COUNTRY OF REF DOCUMENT : EP
WO03037095 A1	20040728	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002787419 COUNTRY OF REF DOCUMENT : EP

4) Family number: 28214076 (US2002099229A)

Title: HIGH OLEIC/HIGH STEARIC SUNFLOWER OILS

Abstract: Source: US2002099229A [EN] Sun flower plants that produce seeds with an extractable oil having an oleic acid content of more than 40 percent by weight and a stearic acid content of more than 12 percent by weight are disclosed, together with products containing the oil and methods for selecting plants containing the oil.

Classifications:

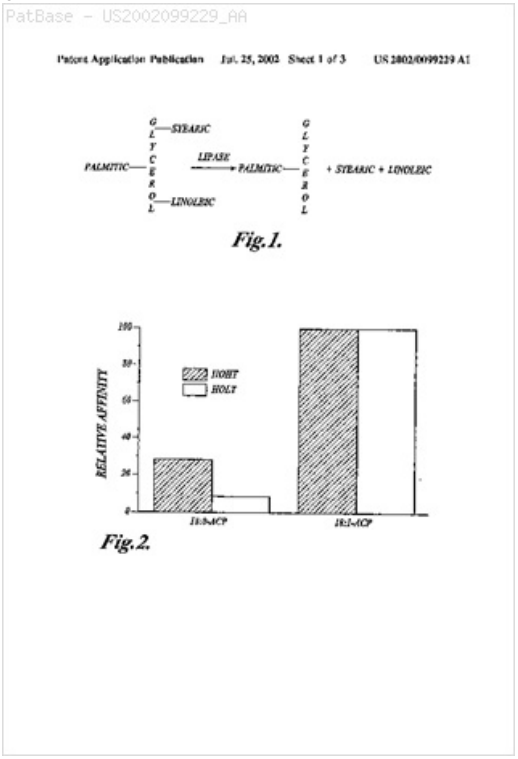
International (IPC 8-9): A01H1/00 A01H1/02 A01H5/00 A01H5/10 A01N37/00 A21D2/16 A23D7/00 A23D9/00 A23G3/34 A23G9/32 A23G9/52 A23K1/00 A23K1/14 A23L1/30 A23L1/36 A23L1/39 A61K6/00 A61K8/00 A61K8/92 A61K8/97 A61Q1/06 A61Q19/00 A61Q5/00 C07C57/00 C11B1/00 C11B5/00 C12N15/82 C12N5/02 (Advanced/Invention);
A01H1/00 A01H1/02 A01H5/00 A01H5/10 A01N37/00 A21D2/00 A23D7/00 A23D9/00 A23G3/34 A23G9/32 A23G9/52 A23K1/00 A23K1/14 A23L1/30 A23L1/39 A61K6/00 A61K8/92 A61K8/96 A61Q1/02 A61Q19/00 A61Q5/00 C07C57/00 C11B1/00 C11B5/00 C12N15/82 (Core/Invention)

International (IPC 1-7): A01H1/00 A01H1/02 A01H1/06 A01H5/00 A01H5/10 A23D7/00 A23D9/00 A61K7/00 A61K7/025 A61K7/075 A61K7/08 C07C57/00 C11B1/00 C12N15/82 C12N15/87 C12N5/02 C12N5/10

CPC: A23K10/30 A23G9/327 A01H5/10 A21D2/165 A23D7/001 A23D7/003 A23D9/00 A23G3/346 A23G9/52 A23G2200/08 A23V2002/00 A61K8/922 A61K8/97 A61Q1/06 A61Q5/00 A61Q19/00 A23L23/00 A23L33/115 A23L33/12

European: A01H5/10 A21D2/16D A23D7/00B A23D7/00D A23D9/00 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/52 A23K1/14 A23L1/30C A23L1/30C2 A23L1/39 A61K7/48T2 A61K8/92C A61K8/97 A61Q1/06 A61Q19/00 A61Q5/00 K23G200/08 K23V2/00 K61Q1/06 K61Q5/00

US: 424/401 424/401S 424/64 424/64P 424/70.22 424/70.220S 426/601 426/601S 426/607 426/615 426/622 426/629 435/41 435/410 435/410S 435/419 435/419S 435/468 435/468S 514/557 514/558 554/224 554/227 554/7 554/9 554/9P 800/260 800/264 800/269 800/270 800/278 800/278S 800/281 800/281P 800/281S 800/295 800/295S 800/298 800/298S 800/320.1 800/320.100S 800/322 800/322S



Family:

Publication number	Publication date	Application number	Application date
AR077210 AB	20110810	AR2010P102221	20100623
AT303718 E	20050915	AT20000938760T	20000605
AT336884 E	20060915	AT20000936860T	20000605
AU200052196 A1	20001228	AU20000052196	20000605
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DE60022503 T3	20101014	DE20006022503T	20000605
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EP1187527 B2	20100609	EP20000938760	20000605
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TR200103522 T2	20020923	TR20010003522T	20000605
TR200103523 T2	20020422	TR20010003523T	20000605
US2002099229 AA	20020725	US20010021985	20011213
US2004088758 AA	20040506	US20030607803	20030626
US2005163735 AA	20050728	US20050060126	20050216

US2006026714 AA	20060202	US20050201700	20050811
US6388113 BA	20020514	US19990326501	19990604
US6770803 BB	20040803	US20010021985	20011213
US6956155 BA	20051018	US20000009066	20000605
US7141267 BB	20061128	US20030607803	20030626
US7435839 BB	20081014	US20050201700	20050811
US7592015 BB	20090922	US20050060126	20050216
WO0074470 A1	20001214	WO2000EP05150	20000605
WO0074471 A1	20001214	WO2000EP05152	20000605

Priority:

EP19990204384	19991217	EP20000936860	20000605	EP20000938760	20000605
EP20050075815	20000605	US20000009067	20000605	US20020009066	20020516
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US20050201700	20050811	WO2000EP05150	20000605	US20030607803	20030626

Probable Assignee: CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

Assignee(s): (std): CONSEJO SUPERIOR INVESTIGACION ; MARTINEZ FORCE ENRIQUE ; MUNOZ RUZ JUAN ; FERNANDEZ MARTINEZ JOSE MARIA ; GARCES RAFAEL

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Inventor(s): FERNANDEZ MARTINEZ JOSE ; RAFAEL GARCES ; ENRIQUE MARTINEZ FORCE ; JUAN MU OZ RUZ ; JOS MAR A FERNANDEZ MARTINEZ ; JOSE MARIA FERNANDEZ MARTINEZ ; JUAN MUNOZ RUZ

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; FETHERSTONHAUGH AND CO; VAN SOMEREN PETRONELLA F H M; CHRISTENSEN O'CONNOR JOHNSON KINDNESS PLLC; CHRISTENSEN OCONNOR JOHNSON KINDNESS PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR077210 AB	20110810	LSGT	+	granted / extensions (spc, cpc, pte)	
AR077210 AB	20150115	LSRV	-FC	REFUSAL	
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AT336884 E	20060915	LSGT	+	granted / extensions (spc, cpc, pte)	
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AU783474 B2	20051027	LSGT	+	granted / extensions (spc, cpc, pte)	
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CA2374100 AA	20011203	LSPB	+	published / reissued	
CA2374100 AA	20050419	LSES	+EEER	EXAMINATION REQUEST	
CA2374100 AA	20151013	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20150818
CA2374107 AA	20011203	LSPB	+	published / reissued	
CA2374107 AA	20050420	LSES	+EEER	EXAMINATION REQUEST	
CA2374107 AA	20100304	LSLE	-FZDE	DEAD	
DE60022503 D1	20060831	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE60022503 D1	20100812	LSOP	+8366	RESTRICTED MAINTAINED AFTER OPPOSITION PROCEEDINGS	
DE60022503 T2	20060629	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60022503 T2	20200605	PEXP		Calculated Patent Term Expiry	
DE60022503 T3	20101014	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60022503 T3	20200605	PEXP		Calculated Patent Term Expiry	
DE60030280 D1	20070913	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60030280 T2	20071011	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60030280 T2	20200605	PEXP		Calculated Patent Term Expiry	
EP1185160 A1	20020313	LSPB	+	published / reissued	
EP1185160 A1	20020313	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20011231
EP1185160 A1	20030305	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030117
EP1185160 A1	20031217	LSRE	RTI1	TITLE (CORRECTION)	TEXT : HIGH OLEIC HIGH STEARIC SUNFLOWER PLANTS, SEEDS AND OILS
EP1185160 A1	20051207	LSRE	RTI1	TITLE (CORRECTION)	TEXT : HIGH OLEIC AND HIGH STEARIC ACID SUNFLOWER PLANTS, SEEDS AND OILS
EP1185160 A1	20060111	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A01H 5/10 19680901AFI20051123BHEP
EP1185160 A1	20060111	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 7/00 19900101ALI20051123BHEP
EP1185160 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160630 YEAR OF FEE PAYMENT : 17
EP1185160 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1185160 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160627 YEAR OF FEE PAYMENT : 17

				OFFICE	
EP1185160 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160630 YEAR OF FEE PAYMENT : 17
EP1185160 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1185160 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1185160 B1	20060823	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1185160 B1	20060823	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060823
EP1185160 B1	20060823	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060823
EP1185160 B1	20060823	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060823
EP1185160 B1	20060823	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1185160 B1	20060915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1185160 B1	20060920	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1185160 B1	20061123	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061123
EP1185160 B1	20061123	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061123
EP1185160 B1	20070124	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20070124
EP1185160 B1	20070301	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2265945 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1185160 B1	20070801	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20070524
EP1185160 B1	20080131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

				INFORM. FROM NAT. OFFICE TO EPO	LAPSED DATE : 20070630
EP1185160 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061124
EP1185160 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060823
EP1185160 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20070605
EP1185160 B1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20140625 YEAR OF FEE PAYMENT : 15
EP1185160 B1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20140627 YEAR OF FEE PAYMENT : 15
EP1185160 B1	20150130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20140701 YEAR OF FEE PAYMENT : 15
EP1185160 B1	20160129	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1185160 B1	20160323	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1185160 B1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150630
EP1185160 B1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150605
EP1185160 B1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150630
EP1185160 B1	20160630	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP1185160 B1	20170627	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP1185160 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150630
EP1185160 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170627 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20170731	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT : GB

				ANNUAL FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20170627 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170622 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170626 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170628 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170705 YEAR OF FEE PAYMENT : 18
EP1185160 B1	20200605	PEXP		Calculated Patent Term Expiry	
EP1187527 A1	20020320	LSPB	+	published / reissued	
EP1187527 A1	20020320	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20011231
EP1187527 A1	20030820	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030704
EP1187527 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1187527 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160627 YEAR OF FEE PAYMENT : 17
EP1187527 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1187527 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 17
EP1187527 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 17
EP1187527 B1	20050907	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1187527 B1	20050907	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050907
EP1187527 B1	20050907	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050907
EP1187527 B1	20050907	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050907
EP1187527 B1	20050907	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050907

EP1187527 B1	20050907	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1187527 B1	20050915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1187527 B1	20051005	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1187527 B1	20051207	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20051207
EP1187527 B1	20051207	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20051207
EP1187527 B1	20051207	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20051207
EP1187527 B1	20060116	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2245643 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1187527 B1	20060207	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060207
EP1187527 B1	20060315	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1187527 B1	20060605	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060605
EP1187527 B1	20060605	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060605
EP1187527 B1	20060630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060630
EP1187527 B1	20060719	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : E.I. DU PONT DE NEMOURS AND COMPANY EFFECTIVE DATE : 20060607
EP1187527 B1	20060901	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	PARTYTYPE : OPPONENT REF COUNTRY CODE : EP OPPONENT : E.I. DU PONT DE NEMOURS AND COMPANY
EP1187527 B1	20070228	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF	REF COUNTRY CODE : EP EFFECTIVE DATE : 20060605

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EP1187527 B1	20070321	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1187527 B1	20080731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060605
EP1187527 B1	20081128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20050907
EP1187527 B1	20200605	PEXP		Calculated Patent Term Expiry	
EP1187527 B2	20100609	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1187527 B2	20100609	LSRE	27A	MAINTAINED AS AMENDED	EFFECTIVE DATE : 20100609
EP1187527 B2	20100922	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1187527 B2	20101026	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : DC2A DATE OF REF DOCUMENT : 20100906 KIND CODE OF REF DOCUMENT : T5 DESIGNATED STATE(S) :
EP1187527 B2	20150130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20140701 YEAR OF FEE PAYMENT : 15
EP1187527 B2	20160928	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP1187527 B2	20170627	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP1187527 B2	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150630
EP1187527 B2	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170627 YEAR OF FEE PAYMENT : 18
EP1187527 B2	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170626 YEAR OF FEE PAYMENT : 18
EP1187527 B2	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170622 YEAR OF FEE PAYMENT : 18
EP1187527 B2	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170705 YEAR OF FEE PAYMENT : 18
EP1187527 B2	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170628 YEAR OF FEE PAYMENT : 18
EP1187527 B2	20200605	PEXP		Calculated Patent Term Expiry	
EP1554925 A1	20050720	LSPB	+	published / reissued	
EP1554925 A1	20060315	LSES	+17P	REQUEST FOR EXAMINATION	EFFECTIVE DATE : 20060111

				FILED	
EP1554925 A1	20060412	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : SE
EP1554925 A1	20100818	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100715
EP1554925 A1	20110706	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20110527
ES2245643 T3	20060116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2245643 T3	20200605	PEXP		Calculated Patent Term Expiry	
ES2265945 T3	20070301	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2265945 T3	20200605	PEXP		Calculated Patent Term Expiry	
HU0201449 AB	20020828	LSPB	+	published / reissued	
HU0201476 AB	20020928	LSPB	+	published / reissued	
HU228802 B1	20130528	LSGT	+	granted / extensions (spc, cpc, pte)	
HU228802 B1	20200605	PEXP		Calculated Patent Term Expiry	
HU228892 B1	20130628	LSGT	+	granted / extensions (spc, cpc, pte)	
HU228892 B1	20200605	PEXP		Calculated Patent Term Expiry	
TR200103522 T2	20020923	LSPB	+	published / reissued	
TR200103523 T2	20020422	LSPB	+	published / reissued	
US2002099229 AA	20020725	LSPB	+	published / reissued	
US2004088758 AA	20040506	LSPB	+	published / reissued	
US2005163735 AA	20050728	LSPB	+	published / reissued	
US2006026714 AA	20060202	LSPB	+	published / reissued	
US6388113 BA	20020514	LSGT	+	granted / extensions (spc, cpc, pte)	
US6388113 BA	20000215	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (C OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MARTINEZ-FORCE, ENRIQUE; MUNOZ-RUZ, JUAN; FERNANDEZ-MARTINEZ, JOSE MARIA; AND OTHERS; REEL/FRAME:010701/0958 EFFECTIVE DATE : 19991104
US6388113 BA	20020426	LSGT	PAT1	Patented Case	

US6388113 BA	20040210	LSRE	CC	CERTIFICATE OF CORRECTION	
US6388113 BA	20051026	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6388113 BA	20091112	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6388113 BA	20131028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6388113 BA	20190604	PEXP		Calculated Patent Term Expiry	
US6770803 BB	20040803	LSGT	+	granted / extensions (spc, cpc, pte)	
US6770803 BB	20040715	LSGT	PAT1	Patented Case	
US6770803 BB	20041228	LSRE	CC	CERTIFICATE OF CORRECTION	
US6770803 BB	20080125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6770803 BB	20120126	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6770803 BB	20160126	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6770803 BB	20211213	PEXP		Calculated Patent Term Expiry	
US6956155 BA	20051018	LSGT	+	granted / extensions (spc, cpc, pte)	
US6956155 BA	20020516	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, S OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MARTINEZ-FORCE, ENRIQUE; MUNOZ-RUZ, JUAN; FERNANDEZ-MARTINEZ, JOSE MARIA; AND OTHERS; REEL/FRAME:013092/0960 EFFECTIVE DATE : 20020507
US6956155 BA	20050928	LSGT	PAT1	Patented Case	
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US6956155 BA	20090401	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6956155 BA	20130404	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6956155 BA	20170418	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6956155 BA	20220926	PEXP		Calculated Patent Term Expiry (PTA 133 days)	
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US7141267 BB	20061108	LSGT	PAT1	Patented Case	
US7141267 BB	20070508	LSRE	CC	CERTIFICATE OF CORRECTION	
US7141267 BB	20100503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7141267 BB	20140429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7141267 BB	20250307	PEXP		Calculated Patent Term Expiry (PTA 620 days)	
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US7435839 BB	20080924	LSGT	PAT1	Patented Case	
US7435839 BB	20090623	LSRE	CC	CERTIFICATE OF CORRECTION	
US7435839 BB	20120403	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7435839 BB	20160330	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US7435839 BB	20250811	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7592015 BB	20090922	LSGT	+	granted / extensions (spc, cpc, pte)	
US7592015 BB	20090902	LSGT	PAT1	Patented Case	
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US7592015 BB	20130228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7592015 BB	20170322	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7592015 BB	20250330	PEXP		Calculated Patent Term Expiry (PTA 42 days)	
WO0074470 A1	20001214	LSPB	+	published / reissued	
WO0074470 A1	20011203	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2374100 COUNTRY OF REF DOCUMENT : CA
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WO0074470 A1	20011203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 52196/00 COUNTRY OF REF DOCUMENT : AU
WO0074470 A1	20011231	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000936860 COUNTRY OF REF DOCUMENT : EP
WO0074470 A1	20020313	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000936860 COUNTRY OF REF DOCUMENT : EP
WO0074470 A1	20020404	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
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WO0074470 A1	20040310	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO0074470 A1	20060209	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 52196/00 COUNTRY OF REF DOCUMENT : AU
WO0074470 A1	20060823	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000936860 COUNTRY OF REF DOCUMENT : EP
WO0074471 A1	20001214	LSPB	+	published / reissued	
WO0074471 A1	20011203	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2374107 COUNTRY OF REF DOCUMENT : CA
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WO0074471 A1	20011203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 54025/00 COUNTRY OF REF DOCUMENT : AU
WO0074471 A1	20011231	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000938760 COUNTRY OF REF DOCUMENT : EP
WO0074471 A1	20020320	LSPB	+WWP	WIPO INFORMATION:	REF DOCUMENT NUMBER : 2000938760

				PUBLISHED IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : EP
WO0074471 A1	20020404	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0074471 A1	20040310	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO0074471 A1	20050907	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000938760 COUNTRY OF REF DOCUMENT : EP
WO0074471 A1	20060209	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 54025/00 COUNTRY OF REF DOCUMENT : AU

5) Family number: 28997406 (US2005123667A)

Title: OIL/FAT POWDER

Abstract: Source: US2005123667A [EN] Provided is an oil/fat powder comprising the following Components (A), (B) and (C): (A) 15 to 79.9 weight percent of a glyceride mixture containing 5 to 84.9 weight percent of triglycerides, 0.1 to 5 weight percent of monoglycerides and 15 to 94.9 weight percent of diglycerides, and having, as at least 50 weight percent of all the constitutive fatty acids, unsaturated fatty acids; (B) 20 to 84.9 weight percent of one or at least two powder forming bases selected from carbohydrates, proteins and peptides; (C) 0.1 to 5 weight percent of water. The diglyceride-containing oil/fat powder according to the present invention exhibits good taste, and excellent dispersibility in water and storage stability. Moreover, owing to good handling use and workability when it is added to food, it can be used readily for various forms of foods. Foods containing this oil/fat powder taste good and have good storage stability.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/01 A23D7/015 A23D9/007 A23D9/013 A23D9/05 A23D9/07 A23G3/00 A23G3/34 A23G3/40 A23L1/30 A23L1/40 A23L2/39 C11B15/00 C11C3/02 C11C3/06 (Advanced/Invention);
A21D2/16 A23D7/00 A23D7/015 A23L1/30 (Advanced/Non-invention)
International (IPC 1-7): A21D2/16 A23D7/00 A23D7/015 A23D9/007 A23G3/00 A23L1/30 C11B15/00 C11C3/02 C11C3/06
CPC: A23L23/10 A23L33/115 A23G1/30 A23D7/003 A23D7/011 A23D7/013 A23D9/007 A23D9/013 A23D9/05 A23G3/346 A23G3/40 A23G2200/08 A23L2/39 A23V2002/00 C11C3/02 C11C3/06 A21D2/16 A23D7/015
European: A21D2/16 A23D7/00D A23D7/015 A23D7/01N A23D7/01S A23D9/007 A23D9/013 A23D9/05 A23G1/30 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23L1/30C A23L1/40 A23L2/39 C11C3/02 C11C3/06 K23G200/08 K23V2/00
US: 426/601 426/601P 426/606



기름/지방 분말의 제조예	기름/지방 조성물	분말화 기제		유화제	물	기타	제조방법
실시예 7	F 60g	말토덱스트린 (TK-16(DE16): Matsutani Chemical Industry 제품) 33g	카제인 Na (Casein Sodium L: San-Ei Gen F.F.I. 제품) 4.0g	수크로오스 스테아레이트 에스테르 ("S-1670(HLB=16)": Mitsubishi-Kagaku Foods 제품) 4.0g	230g	-	분무 건조
실시예 8	D 50g	말토덱스트린 (TK-16(DE16): Matsutani Chemical Industry 제품) 43g	카제인 Na (Casein Sodium L: San-Ei Gen F.F.I. 제품) 3.5g	테트라글리세롤 모노스테아레이트 ("MS-310(HLB=8.4)": Sakamoto Yakuhin Kogyo 제품) 3.5g	230g	-	분무 건조
실시예 9	D 50g	말토덱스트린 (TK-16(DE16): Matsutani Chemical Industry 제품) 43g	카제인 Na (Casein Sodium L: San-Ei Gen F.F.I. 제품) 3.5g	수크로오스 스테아레이트 에스테르 ("S-1670(HLB=16)": Mitsubishi-Kagaku Foods 제품) 3.5g 소르비탄 모노라우레이트 ("EMASOL L-10(F)(HLB=8.6)": Kao Corp 제품) 0.5g	230g	-	분무 건조
실시예 10	D 50g	말토덱스트린 (TK-16(DE16): Matsutani Chemical Industry 제품) 35g 말토덱스트린("Finetose", Sanwa Cornstarch 제품) 8g	카제인 Na (Casein Sodium L: San-Ei Gen F.F.I. 제품) 3.5g	수크로오스 스테아레이트 에스테르 ("S-1670(HLB=16)": Mitsubishi-Kagaku Foods 제품) 3.5g	230g	-	분무 건조

Family:

Publication number	Publication date	Application number	Application date
AU2003208010 AA	20030904	AU20030208010	20030217
AU2003208010 BB	20080221	AU20030208010	20030217
BRPI0307752 A	20050201	BR2003PI07752	20030217
CN100396187 C	20080625	CN20038004146	20030217
CN1633240 A	20050629	CN20038004146	20030217
DE60345617 D1	20140227	DE20036045617	20030217
EP1476022 A1	20041117	EP20030705223	20030217
EP1476022 B1	20140115	EP20030705223	20030217
JP2003306692 A2	20031031	JP20020372508	20021224
JP4157765 B2	20081001	JP20020372508	20021224
KR100906544 B1	20090707	KR20047012831	20030217
KR20040094700 A	20041110	KR20047012831	20030217
US2005123667 AA	20050609	US20030502805	20030217
US7141265 BB	20061128	US20030502805	20030217
WO03067999 A1	20030821	WO2003JP01631	20030217

Priority:

EP20030705223 20030217 JP20020039775 20020218 JP20020372508 20021224
WO2003JP01631 20030217 WO2003JP01631 20040818

Probable Assignee: KAO CORP

Assignee(s): (std): KAO CORP ; NAKAJIMA YOSHINOBU ; SAKUMA TADASHI ; YAMASHITA HIROYUKI

Inventor(s): (std): YOSHINOBU NAKAJIMA ; YAMASHITA HIROYUKI ; SAKUMA TADASHI ; NAKAJIMA YOSHINOBU ; HIROYUKI YAMASHITA ; TADASHI SAKUMA

Inventor(s): YAMASHITA HIROYUKI WAKAYAMA SHI

Agent(s): PHILLIPS ORMONDE FITZPATRICK; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details

AU2003208010 AA	20030904	LSPB	+	published / reissued	
AU2003208010 BB	20080221	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2003208010 BB	20080619	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2003208010 BB	20230217	PEXP		Calculated Patent Term Expiry	
BRPI0307752 A	20050201	LSPB	+	published / reissued	
BRPI0307752 A	20160705	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0307752 A	20171003	LSGT	B09A	DECISION: INTENTION TO GRANT	
CN100396187 C	20080625	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100396187 C	20080625	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100396187 C	20230217	PEXP		Calculated Patent Term Expiry	
CN1633240 A	20050629	LSPB	+	published / reissued	
CN1633240 A	20050629	LSPB	+C06	PUBLICATION	
EP1476022 A1	20041117	LSPB	+	published / reissued	
EP1476022 A1	20041117	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20040813
EP1476022 A1	20070808	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20070709
EP1476022 A1	20130424	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 7/00 20060101AFI20130319BHEP
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EP1476022 A1	20130424	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A21D 2/16 20060101ALI20130319BHEP
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EP1476022 A1	20130605	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : KAO CORPORATION
EP1476022 A1	20131023	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20130923
EP1476022 A1	20131030	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20131003
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EP1476022 B1	20140227	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60345617 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140227
EP1476022 B1	20141015	LSOP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R026 REF DOCUMENT NUMBER : 60345617 COUNTRY OF REF DOCUMENT : DE
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JP2003306692 A2	20031031	LSPB	+	published / reissued	
JP4157765 B2	20081001	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4157765 B2	20041001	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20040930
JP4157765 B2	20080416	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080415

JP4157765 B2	20080614	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080613
JP4157765 B2	20080703	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP4157765 B2	20080709	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20080708
JP4157765 B2	20080710	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP4157765 B2	20080715	LSFE	R100	特許料納付書 Patent fee payment form	
JP4157765 B2	20080717	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20080714
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KR100906544 B1	20230217	PEXP		Calculated Patent Term Expiry	
KR20040094700 A	20041110	LSPB	+	published / reissued	
KR20040094700 A	20080130	LSES	A201	REQUEST FOR EXAMINATION	
KR20040094700 A	20080922	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20040094700 A	20090529	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20040094700 A	20090630	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
US2005123667 AA	20050609	LSPB	+	published / reissued	
US2005123667 AA	20041130	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAO CORPORATION, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SAKUMA, TADASHI; NAKAJIMA, YOSHINOBU; YAMASHITA, HIROYUKI; REEL/FRAME:016030/0249; SIGNING DATES FROM 20040520 TO 20040531
US7141265 BB	20061128	LSGT	+	granted / extensions (spc, cpc, pte)	
US7141265 BB	20061108	LSGT	PAT1	Patented Case	
US7141265 BB	20100503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7141265 BB	20140430	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7141265 BB	20230217	PEXP		Calculated Patent Term Expiry	
WO03067999 A1	20030821	LSPB	+	published / reissued	
WO03067999 A1	20040802	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL	REF DOCUMENT NUMBER : 2003208010 COUNTRY OF REF DOCUMENT : AU

				PHASE	
WO03067999 A1	20040806	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10502805 COUNTRY OF REF DOCUMENT : US
WO03067999 A1	20040813	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003705223 COUNTRY OF REF DOCUMENT : EP
WO03067999 A1	20040818	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038041464 COUNTRY OF REF DOCUMENT : CN
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6) Family number: 63675020 (US2018049456A)

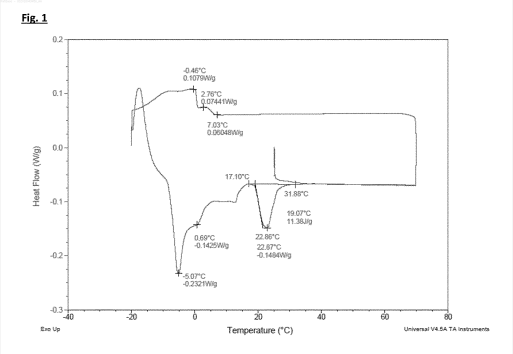
Title: FOOD COMPOSITION COMPRISING GAS BUBBLES

Abstract: Source: US2018049456A [EN] The present invention relates in general to field of food and drinks. In particular, it relates to a food composition comprising a lipid-in-water emulsion wherein gas is dispersed in the lipid in the form of a foam. Triglyceride crystals are present at the gas-lipid interface. The invention also provides a process for forming such a food composition.

Classifications:

International (IPC 8-9): A21D10/00 A21D13/068 A21D2/16 A23D7/00 A23D7/04 A23D9/007 A23D9/04 A23G1/30 A23G1/32 A23G1/36 A23G1/52 A23G1/56 A23G3/34 A23G3/40 A23G3/52 A23G9/32 A23G9/46 A23L2/54 A23L23/00 A23L27/60 A23L29/10 A23L33/20 A23L33/21 A23L35/00 A23P30/40 A61K8/04 A61K8/37 A61K8/92 A61Q19/00 B01F17/00 B01J13/00 (Advanced/Invention)

CPC: A23V2200/226 A61K8/046 A21D2/165 A21D10/002 A21D13/068 A23D9/007 A23D7/003 A23D9/04 A23G1/32 A23L29/30 A23G1/56 A61K8/375 A61K8/922 A61K2800/10 A61K2800/92 A61Q19/00 A23G2200/08 A23L33/21 A23G9/46 A23L27/60 A23D7/001 A23D7/04 A23L2/54 A23L23/00 A23L29/10 A23L33/20 A23L35/10 A23P30/40 A23V2002/00 A23G1/305 A23G1/36 A23G1/52 A23G3/343 A23G3/40 A23G3/52 A23G9/322 A23G2220/02 B01F17/0092 B01F17/0021 B01J13/0069



Family:

Publication number	Publication date	Application number	Application date
CN107404930 A	20171128	CN201680013812	20160322
CN107404933 A	20171128	CN201680013228	20160322
CN107427021 A	20171201	CN201680013889	20160322
EP3273788 A1	20180131	EP20160713354	20160322
EP3273789 A1	20180131	EP20160714313	20160322
EP3273790 A1	20180131	EP20160714311	20160322
US2018049456 AA	20180222	US20160558399	20160322
US2018064127 AA	20180308	US20160559994	20160322
US2018070598 AA	20180315	US20160559982	20160322
WO16150968 A1	20160929	WO2016EP56269	20160322
WO16150977 A1	20160929	WO2016EP56280	20160322
WO16150978 A1	20160929	WO2016EP56290	20160322

Priority:

EP20150160345 20150323 EP20150160354 20150323 WO2016EP56269 20160322
WO2016EP56290 20160322 WO2016EP56280 20160322

Probable Assignee: NESTEC SA

Assignee(s): (std): NESTEC SA

Inventor(s): (std): APPOLONIA NOUZILLE CORINNE ; BINKS B P ; BINKS BARNARD PAUL ; BINKS BERNARD PAUL ; BINKS BERNHARD PAUL ; CHANDRASEKARAN SHANTHA NALUR ; CHISHOLM HELEN ; DESTRIBATS MATHIEU JULIEN ; DEYBER HELENE ; GARVEY EMMA ; GEHIN DELVAL CECILE ; GERMAN JAMEY ; GUNES ZEYNEL DENIZ ; PELLOUX CINDY ; SCHAFER OLIVIER ; VIEIRA JOSELIO BATISTA

Agent(s): COUZENS PATRICK JOHN; COUZENS PATRICK

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CN107404930 A	20171128	LSPB	+	published / reissued	
CN107404930 A	20171128	LSPB	PB01	PUBLICATION	
CN107404933 A	20171128	LSPB	+	published / reissued	
CN107404933 A	20171128	LSPB	PB01	PUBLICATION	
CN107427021 A	20171201	LSPB	+	published / reissued	
CN107427021 A	20171201	LSPB	PB01	PUBLICATION	
EP3273788 A1	20180131	LSPB	+	published / reissued	
EP3273788 A1	20180131	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20171023
EP3273789 A1	20180131	LSPB	+	published / reissued	

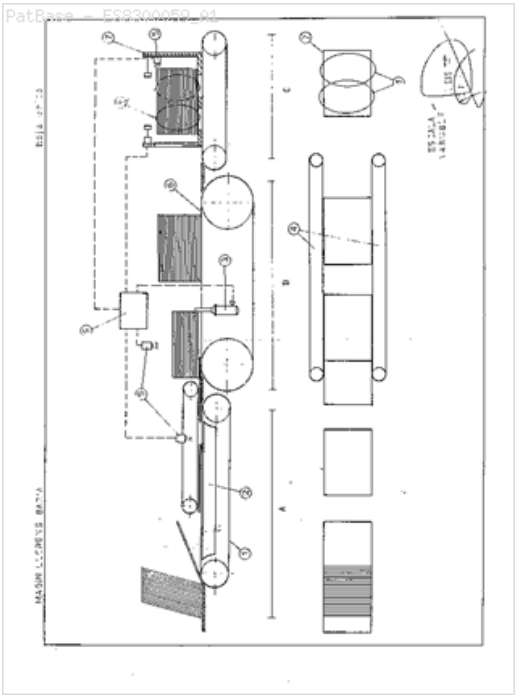
EP3273789 A1	20180131	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20171023
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EP3273790 A1	20180131	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20171023
US2018049456 AA	20180222	LSPB	+	published / reissued	
US2018064127 AA	20180308	LSPB	+	published / reissued	
US2018070598 AA	20180315	LSPB	+	published / reissued	
WO16150968 A1	20160929	LSPB	+	published / reissued	
WO16150968 A1	20170926	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO16150977 A1	20160929	LSPB	+	published / reissued	
WO16150977 A1	20170926	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO16150978 A1	20160929	LSPB	+	published / reissued	
WO16150978 A1	20170926	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

7) Family number: 11371836 (US4927658A)

Title: TRIS-HYDROXYMETHYL ALKANE ESTERS AS LOW CALORIE FAT MIMETICS

Abstract: Source: US4927658A [EN] Trishydroxymethyl alkanes, notably monomeric and dimeric trishydroxymethyl ethane and propane, esterified with fatty acids or dicarboxylate-extended fatty acid derivatives, are physiologically compatible, partially digestible edible synthetic fat replacements for foods and pharmaceuticals.

Classifications:
International (IPC 8-9): A21D2/16 A23C19/05 A23C9/152 A23D7/01 A23D9/013 A23G1/00 A23G1/38 A23G1/56 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/44 A23G9/52 A23L1/187 A23L1/24 A23L1/29 A23L1/30 A23L1/307 A23L1/308 B65B27/08 C07C69/30 C07C69/34 C07C69/58 C11C3/00 (Advanced/Invention);
A23G3/34 A23G9/44 A23G9/52 A23L1/187 A23L1/24 A23L1/307 (Advanced/Non-invention);
A21D2/00 A23C19/00 A23C9/152 A23D7/005 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/187 A23L1/24 A23L1/30 A23L1/307 A23L1/308 B65B27/08 C07C69/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A21D2/16 A23C9/152 A23D5/00 A23D7/00 A23D7/04 A23D9/00 A23G3/00 A23G9/02 A23L1/187 A23L1/24 A23L1/29 A23L1/30 A23L1/307 B65B27/08 C07C69/18 C07C69/30 C07C69/33 C07C69/34 C07C69/58 C07C69/66 C07C69/67 C11C3/00
CPC: Y10S426/804 A23G9/327 A23C9/1528 A23C19/054 A23D7/013 A23G1/38 A23G1/56 A23G3/40 A23G2200/08 C11C3/003 A23L33/25 A23D9/013 A23L33/115 A23L33/12
European: 124B69/32 124B69/34 124B69/52 A23C19/05H A23C9/152F A23D7/01S A23D9/013 A23G1/00K A23G1/00K+D8 A23G1/38 A23G1/56 A23G3/00 A23G3/00+D8 A23G3/40 A23G9/02 A23G9/02+D8 A23G9/32G A23L1/308F A23L1/30C A23L1/30C2 C11C3/00B K23G200/08
US: 260/410.6 426/531 426/549 426/566 426/601 426/611 426/804 554/223 554/224 554/225 554/226 554/227 560/180 560/198 560/199



Family:

Publication number	Publication date	Application number	Application date
AU199049082 A1	19900823	AU19900049082	19900202
CA2005750 AA	19900816	CA19892005750	19891218
CN1044935 A	19900829	CN19891009709	19891230
EP0383606 A1	19900822	EP19900301651	19900215
ES498506 A0	19820301	ES19810498506	19810114
ES8300059 A1	19820301	ES19810498506	19810114
FI900762 A0	19900215	FI19900000762	19900215
HU55974 A2	19910729	HU19900000821	19900215
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KR19900012553 A	19900901	KR19900001977	19900216
NO900740 A	19900817	NO19900000740	19900215
NO900740 A0	19900215	NO19900000740	19900215
PT93189 A	19900831	PT19900093189	19900216
US4927658 A	19900522	US19890311709	19890216
US4992292 A	19910212	US19900510042	19900417
US5169665 A	19921208	US19900629304	19901218
US5266346 A	19931130	US19910780700	19911018
ZA9000481 A	19901031	ZA19900000481	19900123

Priority:

CA19892005750 19891218 ES19810498506 19810114 US19890311709 19890216
US19890409137 19890919 US19900510042 19900417 US19910780700 19911018
US19900629304 19901218

Probable Assignee: NABISCO TECHNOLOGY CO

Assignee(s): (std): LLORENS BADIA MAGIN ; NABISCO BRANDS INC ; NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; RJR NABISCO INC ; NABISCO BRANDS INC A OF DELAWARE CORP ; NABISCO INC A NJ CORP ; NABISCO BRANDS INC US ; SCIMONE ANTHONY ; FINLEY JOHN W ; KLEMANN LAWRENCE P ; KRAFT FOODS HOLDINGS INC

Inventor(s): (std): ANSONII SHIMON ; JIYON DABURIYUU FUINRII ; JOHN W FINLEY ; LAWRENCE P KLEMANN ; ROORENSU PII KUREMAN ; SCIMONE ANTHONY ; KLEMANN LAWRENCE P ; FINLEY JOHN W ; ANTHONY SCIMONE

Inventor(s): SCIMONE ANTHONY US

Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199049082 A1	19900823	LSPB	+	published / reissued	
CA2005750 AA	19900816	LSPB	+	published / reissued	
CA2005750 AA	19930620	LSLE	-FZDE	DEAD	
CN1044935 A	19900829	LSPB	+	published / reissued	
CN1044935 A	19900829	LSPB	+C06	PUBLICATION	
CN1044935 A	19921202	LSDW	-C01	DEEMED WITHDRAWAL OF PATENT APPLICATION (PATENT LAW 1993)	
EP0383606 A1	19900822	LSPB	+	published / reissued	
EP0383606 A1	19910320	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19910121
EP0383606 A1	19920506	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19920319
EP0383606 A1	19920617	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : NABISCO, INC.
EP0383606 A1	19930331	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19920930
ES8300059 A1	19820301	LSGT	+	granted / extensions (spc, cpc, pte)	
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JP2261361 A2	19901024	LSPB	+	published / reissued	
KR19900012553 A	19900901	LSPB	+	published / reissued	
NO900740 A	19900817	LSPB	+	published / reissued	
PT93189 A	19900831	LSPB	+	published / reissued	
PT93189 A	19960131	LSRV	-FC3A	REFUSAL	EFFECTIVE DATE : 19951020
US4927658 A	19900522	LSGT	+	granted / extensions (spc, cpc, pte)	
US4927658 A	19890216	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; SCIMONE, ANTHONY; REEL/FRAME:005045/0317 EFFECTIVE DATE : 19890215
US4927658 A	19900321	LSGT	PAT1	Patented Case	
US4927658 A	19920326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : NABISCO, INC., A NJ CORP., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A DE CORP.; REEL/FRAME:006059/0606 EFFECTIVE DATE : 19920323
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US4927658 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
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US4927658 A	20011121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
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US5169665 A	19921208	LSGT	+	granted / extensions (spc, cpc, pte)	
US5169665 A	19920327	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A CORP. OF DE; REEL/FRAME:006066/0625 EFFECTIVE DATE : 19920325

US5169665 A	19921125	LSGT	PAT1	Patented Case	
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US5169665 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
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US5169665 A	20101218	PEXP		Calculated Patent Term Expiry	
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US5266346 A	20111018	PEXP		Calculated Patent Term Expiry	
ZA9000481 A	19901031	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9000481 A	20100122	PEXP		Calculated	

	Patent Term Expiry

8) Family number: 33533246 (US5362508A)

Title: PROCESS FOR PREPARING SOFT CENTERS IN FOOD PRODUCTS

Abstract: Source: US5362508A [EN] Food products having soft or liquid centers, layers or other areas are formulated by arranging two fat-containing components contiguous with one another. A fat in the first component migrates into the second, forming a mixture having a lower solids content than the second fat, while the structural integrity of the first component is maintained. The process is especially adapted to the formation of soft- and liquid-centered confections. One preferred embodiment employs fats bearing long, saturated C16 to C22 fatty acid residues and a mixture of short C2 to C4 acid residues, preferably containing acetic acid residues, as the migrating fat in a confectionery coating, and hydrogenated coconut or palm kernel oil as the fat in the confectionery center. An especially preferred embodiment employs, as the migrating fat, triglycerides bearing long, saturated substitutents containing at least about 75 percent stearic acid residues and short residues derived from acetic acid, a mixture of acetic and propionic acid, or a mixture of acetic and butyric acid. Since sucrose and invertase are not essential elements of the center, artificial sweeteners can be used to replace all or part of the sucrose, resulting in reduced calorie confections. Caloric reduction is further enhanced because preferred migrating fats are low in calories.

Classifications:

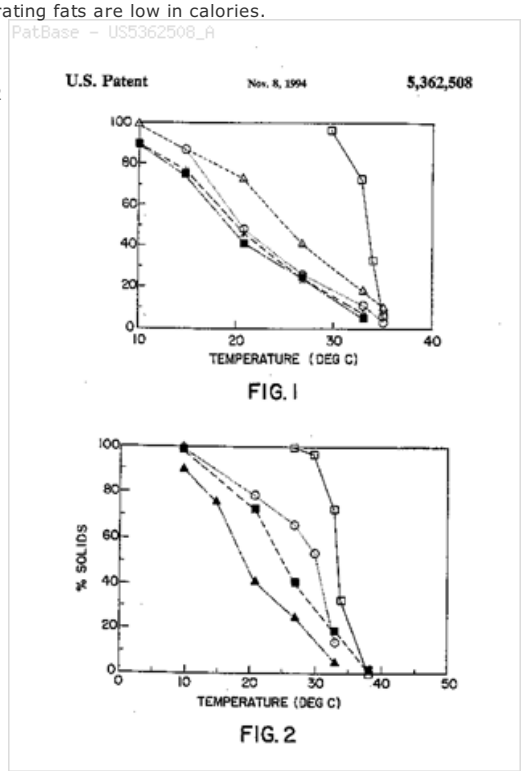
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 A23P1/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)

International (IPC 1-7): A23D7/00 A23G3/00 A23P1/08

CPC: A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A23D7/00 A23K50/42

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

US: 426/302 426/306 426/502 426/549 426/607 426/98 426/99



Family:

Publication number	Publication date	Application number	Application date
DK0652714 T3	20040705	DK19930918485T	19930728
US5362508 A	19941108	US19920924724	19920803

Priority:

US19890410161 19890920 US19900624056 19901207 US19920924724 19920803 US19910804140 19911206

Probable Assignee: DANISCO USA INC

Assignee(s): (std): DANISCO USA INC ; NABISCO INC

Assignee(s): NABISCO INC A CORP OF NEW JERSEY ; NABISCO TECHNOLOGY CO

Inventor(s): (std): BUSK G CURTIS JR ; BUSK JR G CURTIS ; WHEELER EDWARD L

Inventor(s): BUSK G

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
DK0652714 T3	20040705	LSGT	+	granted / extensions (spc, cpc, pte)	
DK0652714 T3	20130728	PEXP		Calculated Patent Term Expiry	
US5362508 A	19941108	LSGT	+	granted / extensions (spc, cpc, pte)	

US5362508 A	19920803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A CORP. OF NEW JERSEY, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:WHEELER, EDWARD L.; BUSK, G. CURTIS, JR.; REEL/FRAME:006176/0058 EFFECTIVE DATE : 19920731
US5362508 A	19941110	LSGT	PAT1	Patented Case	
US5362508 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5362508 A	19980507	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5362508 A	20021024	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5362508 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5362508 A	20060508	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5362508 A	20120803	PEXP		Calculated Patent Term Expiry	

9) Family number: 33533254 (US5374440A)

Title: METHOD FOR CONTROLLING COOKIE GEOMETRY

Abstract: Source: US5374440A [EN] A method for controlling spread in cookies uses in the cookie dough a shortening comprising geometry-altering triglycerides bearing long C16 to C22 saturated fatty acid residues and short C2 to C4 acid residues. In a preferred embodiment, the triglycerides have a solid fat index of about 10 percent to about 70 percent between 15 DEG and 30 DEG C., and the long residues are a mixture containing at least about 75 percent stearic acid residues while the short residues are derived from a mixture of acetic and propionic acid, a mixture of acetic and butyric, or a mixture of acetic, propionic, and butyric acid. The method is especially adapted to reducing spread in cookies containing an ingredient that promotes spread such as polydextrose. Cookies prepared with polydextrose and geometry-altering triglyceride compositions are low in calories.

Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A23G1/30 (Core/Invention)

International (IPC 1-7): A23L1/10

CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A21D13/80

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D13/08 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

US: 426/549 426/804

Family:

Publication number	Publication date	Application number	Application date
US5374440 A	19941220	US19920996419	19921223

Priority:

US19890410161 19890920 US19900624056 19901207 US19920996419 19921223
US19910804140 19911206

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO INC A OF DELAWARE CORP ; NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHEDID LISA ; HENNESSEY JANET

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5374440 A	19941220	LSGT	+	granted / extensions (spc, cpc, pte)	
US5374440 A	19921223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC. A CORPORATION OF DELAWARE, NEW JERS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:CHEDID, LISA; HENNESSEY, JANET; REEL/FRAME:006386/0456 EFFECTIVE DATE : 19921221
US5374440 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5374440 A	19980619	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5374440 A	20021220	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US5374440 A	20030218	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20021220
US5374440 A	20030528	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5374440 A	20030602	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20030605

US5374440 A	20030605	LSGT	PAT1	Patented Case	
US5374440 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5374440 A	20060623	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5374440 A	20121223	PEXP		Calculated Patent Term Expiry	

10) Family number: 33533260 (US5380538A)

Title: CRYSTAL MODIFIERS FOR DIACETIN FATS

Abstract: Source: US5380538A [EN] The physical properties of diacetin fats such as diacetopalmitin, diacetostearin, and diacetoarachidin, diacetobehenin are modulated by mixing them with about 10 percent to about 16 percent crystal modifier fats that are triglycerides bearing one short C2 to C4 acid residue and two long, saturated C16 to C22 fatty acid residues per molecule. The modified diacetin fats, which exhibit improved snap, gloss, hardness, bloom resistance, and mold release, are suitable for use in edible coatings, especially confectionery coatings.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/06 A23P1/08
CPC: Y10S426/804 A23G3/40 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G3/40 A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/660 426/804 426/99

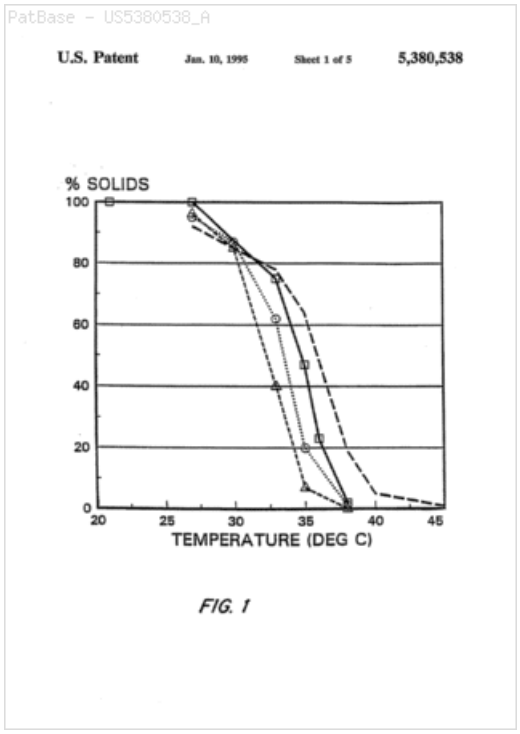


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US5380538 A	19950110	US19920991688	19921216

Priority:

US19890410161 19890920 US19900555902 19900720 US19920991688 19921216
US19910804140 19911206 US19910732518 19910719 US19900624056 19901207

Probable Assignee: DANISCO USA INC
Assignee(s): (std): NABISCO INC
Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC
Inventor(s): (std): OTTERBURN MICHAEL S ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5380538 A	19950110	LSGT	+	granted / extensions (spc, cpc, pte)	
US5380538 A	19921216	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:WHEELER, EDWARD L.; OTTERBURN, MICHAEL S.; REEL/FRAME:006371/0226 EFFECTIVE DATE : 19921214
US5380538 A	19941228	LSGT	PAT1	Patented Case	
US5380538 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101

US5380538 A	19980709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5380538 A	20020709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5380538 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5380538 A	20060710	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5380538 A	20121216	PEXP		Calculated Patent Term Expiry	

11) Family number: 33533261 (US5380544A)

Title: PRODUCTION OF FAT MIXTURES ENRICHED WITH TRIGLYCERIDES BEARING SHORT, MEDIUM AND LONG RESIDUES

Abstract: Source: US5380544A [EN] Fat mixtures containing at least about 24 percent, more preferably at least about 34 percent, triglycerides bearing short, medium, and long residues are prepared. Many embodiments contain at least about 50 percent, and some at least about 75 percent to 90 percent, of these triglycerides, and have an acyl carbon number of 26 to 36. Especially preferred short substituents are derived from acetic acid, butyric acid, and mixtures of these with each other and with propionic acid. Especially preferred medium substituents have at least about 90 percent of the residues derived from capric acid, caprylic acid, and mixtures of these. Especially preferred long substituents contain at least about 70 percent, and many have at least about 85 percent, stearic acid or behenic acid residues or mixtures of these. One embodiment has an acyl carbon number of 28 to 32 and the long residues are predominantly stearic acid residues. Another embodiment has an acyl carbon number of 32 to 36 and the long residues are predominantly behenic acid residues. These fats may be prepared by interesterifying a mixture of triglycerides bearing short residues and triglycerides bearing medium residues with triglycerides bearing long residues and steam deodorizing the product at relatively high temperatures. The steam deodorized product can be further enriched with triglyceride species bearing short, medium, and long residues using molecular distillation.

Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11B3/10 C11B3/12 C11B3/14 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A23G1/30 (Core/Invention)

International (IPC 1-7): A23D9/00

CPC: A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 A23K50/42 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

US: 426/607 426/610 426/660

Family:

Publication number	Publication date	Application number	Application date
US5380544 A	19950110	US19930026894	19930305

Priority:

US19890410161 19890920 US19900624056 19901207 US19930026894 19930305 US19910804140 19911206

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): BOLDT GILBERT L ; KLEMANN LAWRENCE P ; PELLOSO TURIDDU A ; RODEN ALLAN D

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5380544 A	19950110	LSGT	+	granted / extensions (spc, cpc, pte)	
US5380544 A	19930305	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; RODEN, ALLAN D.; PELLOSO, TURIDDU A.; AND OTHERS; REEL/FRAME:006456/0809; SIGNING DATES FROM 19930211 TO 19930212
US5380544 A	19941228	LSGT	PAT1	Patented Case	
US5380544 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5380544 A	19980709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5380544 A	20020709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5380544 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS,

					INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5380544 A	20060710	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5380544 A	20130305	PEXP		Calculated Patent Term Expiry	

12) Family number: 33533269 (US5391383A)

Title: EDIBLE SPRAY OIL

Abstract: Source: US5391383A [EN] Non-greasy spray oils for snack and other food products are especially useful for adhering topical seasonings or condiments to the products. The spray oils contain fats bearing short acetic acid, propionic and/or butyric acid residues, and long, saturated C16 to C24 fatty acid residues. Especially preferred are triglycerides exhibiting a solid fat index at 70 DEG F. of at least about 50 percent, more preferably at least about 60 percent, and at least about 40 percent, more preferably at least about 50 percent, at 80 DEG F. One preferred embodiment contains triglycerides wherein at least about 75 percent of the long acid residues are stearic acid or longer residues and the short residues are mixtures of acetic acid and propionic acid residues, acetic acid and butyric acid residues, or a mixture of acetic acid, propionic acid, and butyric acid residues. The spray oils are low in calories and oxidation resistant.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/216 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention); A23G1/30 (Core/Invention)
International (IPC 1-7): A23D9/00 A23P1/08
CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 C11C3/10 A21D13/28 A21D13/34 A21D13/38
European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/291 426/303 426/804 426/96 426/99

Family:

Publication number	Publication date	Application number	Application date
US5391383 A	19950221	US19930007447	19930122

Priority:

US19890410161 19890920 US19900624056 19901207 US19930007447 19930122 US19910804140 19911206

Probable Assignee:	DANISCO USA INC
Assignee(s): (std):	NABISCO INC
Assignee(s):	NABISCO TECHNOLOGY CO ; DANISCO USA INC
Inventor(s): (std):	CHRYSAM MICHAEL M ; SULLIVAN JOANNE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5391383 A	19950221	LSGT	+	granted / extensions (spc, cpc, pte)	
US5391383 A	19930122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:SULLIVAN, JOANNE; CHRYSAM, MICHAEL M.; REEL/FRAME:006476/0367; SIGNING DATES FROM 19930112 TO 19930113
US5391383 A	19950209	LSGT	PAT1	Patented Case	
US5391383 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5391383 A	19980821	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5391383 A	20020820	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5391383 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5391383 A	20060821	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

US5391383 A	20130122	PEXP	Calculated Patent Term Expiry

13) Family number: 33533288 (US5434278A)

Title: SYNTHESIS OF ACETOGLYCERIDE FATS

Abstract: Source: US5434278A [EN] Acetoglycerides are prepared in a solventless, single phase interesterification between triacetin and triglycerides bearing long C16 to C22 fatty acid residues by adding triglycerides bearing saturated C3 to C10 acid residues to the reaction mixture. The long acid residues may be hydrogenated before or after interesterification. In one embodiment, the C3 to C10 triglycerides are tripropionin, tributyrin, or mixtures of these; in another, these are triglycerides bearing C8 to C10 acid residues; and in a third, these are a mixture of tripropionin and/or tributyrin and C8 to C10 triglycerides. In preferred embodiments, the molar ratio of C16 to C22 triglycerides to triacetin and C3 to C10 triglycerides varies between 1:1 and 1:15, more narrowly between 1:3 and 1:12, and high temperatures are employed. The process diminishes catalyst use, obviates the need for high shear mixing, shortens reaction times, and simplifies purification steps.

Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A23G1/30 (Core/Invention)
International (IPC 1-7): C07C51/00 C07C55/22 C11C3/10
CPC: C11C3/10 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 Y02P20/582 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38
European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 554/165 554/169

Family:

Publication number	Publication date	Application number	Application date
US5434278 A	19950718	US19930012712	19930203

Priority:

US19890410161 19890920 US19900624056 19901207 US19930012712 19930203
US19910804140 19911206

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO INC A CORP OF DE ; NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): BOLDT GILBERT L ; PELLOSO TURIDDU A ; RODEN ALLAN D

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5434278 A	19950718	LSGT	+	granted / extensions (spc, cpc, pte)	
US5434278 A	19930203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC. A CORP. OF DE, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:PELLOSO, TURIDDU A.; RODEN, ALLAN D.; BOLDT, GILBERT L.; REEL/FRAME:006413/0828 EFFECTIVE DATE : 19930202
US5434278 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5434278 A	19990115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5434278 A	20030117	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5434278 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5434278 A	20070718	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	

US5434278 A	20070813	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5434278 A	20070904	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20070718
US5434278 A	20130203	PEXP		Calculated Patent Term Expiry	

14) Family number: 33534930 (NO952510A)

Title: FREMGANGSMATE FOR A REGULERE KAKEGEOMETRI

Abstract: Source: NO952510A [NO] Fremgangsmate for a regulere esingen av smakaker, ved at det i smakake-deigen anvendes et bakefett omfattende geome- tri-endrende triglyserider med lange, mettede C16_22-fettsyrerester og korte Cj-syrerester. I en foretrukket ut- foerelse har triglysericlene en fastfett- indeks pa 10-70 percent mellom 15 "C og 30 degrees centigrade, og de lange rester er en blanding inne- holdende minst 75 percent stearinsyrerester, mens de korte rester er avledet fra en blanding av eddiksyre og propionsyre, en blanding av eddiksyre og smoersyre, eller en blanding av eddiksyre, propionsyre og smoersyre. Fremgangsmaten er saerlig egnet til a redusere esingen hos smakaker som inneholder en bestanddel som fremmer esing, slik som polydekstrose. Smakaker fremstilt med polydekstrose og geometri- endrende triglyseridblandinger har lavt kaloriinnhold. [EN] A method for controlling spread in cookies uses in the cookie dough a shortening comprising geometry-altering triglycerides bearing long C16 to C22 saturated fatty acid residues and short C2 to C4 acid residues. In a preferred embodiment, the triglycerides have a solid fat index of about 10 percent to about 70 percent between 15 DEG and 30 DEG C., and the long residues are a mixture containing at least about 75 percent stearic acid residues while the short residues are derived from a mixture of acetic and propionic acid, a mixture of acetic and butyric, or a mixture of acetic, propionic, and butyric acid. The method is especially adapted to reducing spread in cookies containing an ingredient that promotes spread such as polydextrose. Cookies prepared with polydextrose and geometry-altering triglyceride compositions are low in calories.
Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A21D13/08 A21D2/16 A21D8/06 A23L1/10
CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A21D13/80
European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D13/08 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AU199458529 A1	19940719	AU19940058529	19931220
AU679031 B2	19970619	AU19940058529	19931220
BRPI9307705 A	19990831	BR1993PI07705	19931220
EP0675688 A1	19951011	EP19940904507	19931220
EP0675688 A4	19970226	EP19940904507	19931220
FI953144 A	19950713	FI19950003144	19950622
FI953144 A0	19950622	FI19950003144	19950622
JP8505052 T2	19960604	JP19940515369T	19931220
NO952510 A	19950822	NO19950002510	19950622
NO952510 A0	19950622	NO19950002510	19950622

Priority:
US19920996419 19921223 US19920996419 19921223 WO1993US12409 19931220

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Inventor(s): (std): CHEDID LISA ; HENNESSEY JANET
Inventor(s): JANET HENNESSEY ; LISA CHEDID
Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199458529 A1	19940719	LSPB	+	published / reissued	
AU679031 B2	19970619	LSGT	+	granted / extensions (spc, cpc, pte)	
AU679031 B2	20131220	PEXP		Calculated Patent Term Expiry	
BRPI9307705 A	19990831	LSPB	+	published / reissued	
BRPI9307705 A	20000926	LSES	-EG	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9307705 A	20010626	LSRV	-FC	DECISION: REFUSAL	
EP0675688 A1	19951011	LSPB	+	published / reissued	
EP0675688 A1	19951011	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950609
EP0675688 A4	19970226	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH	EFFECTIVE

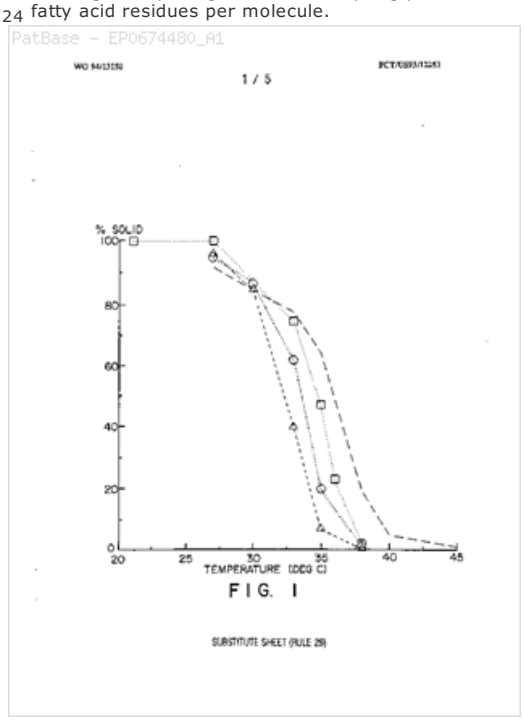
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EP0675688 A4	20000329	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20000211
EP0675688 A4	20020130	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20010720
FI953144 A	19950713	LSPB	+	published / reissued	
JP8505052 T2	19960604	LSPB	+	published / reissued	
NO952510 A	19950822	LSPB	+	published / reissued	
NO952510 A	20030825	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	

15) Family number: 33534934 (EP0674480B1)

Title: CRYSTAL MODIFIERS FOR DIACETIN FATS

Abstract: Source: EP0674480B1 [EN] (Claim 1) 1. A use to impart a snap to coatings comprising diacetin fats by triglycerides bearing one short C_2 to C_4 acid residue and two long, saturated C_{16} to C_{24} fatty acid residues per molecule.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A23G1/00 A23G1/30 (Advanced/Non-invention)
International (IPC 1-7): A23D9/00 A23D9/02 A23G1/00 A23G3/00
CPC: Y10S426/804 A23G3/40 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G3/40 A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
AT214548 E	20020415	AT19930904847T	19931216
AU199458717 A1	19940704	AU19940058717	19931216
AU689092 B2	19980326	AU19940058717	19931216
BRPI9307658 A	19990908	BR1993PI07658	19931216
CA2151053 AA	19950605	CA19932151053	19931216
CA2151053 C	20041109	CA19932151053	19931216
DE69331748 D1	20020425	DE19936031748	19931216
DE69331748 T2	20021010	DE19936031748T	19931216
EP0674480 A1	19951004	EP19940904847	19931216
EP0674480 A4	19951011	EP19940904847	19931216
EP0674480 B1	20020320	EP19940904847	19931216
FI952963 A	19950713	FI19950002963	19950615
FI952963 A0	19950615	FI19950002963	19950615
JP3496075 B2	20040209	JP19940514524T	19931216
JP8504582 T2	19960521	JP19940514524T	19931216
KR100301173 B1	20011122	KR19950702470	19950616
KR19950703864 A	19951117	KR19950702470	19931216
KR19957003864 A	19951117	KR19957002470	19931216
NO952373 A	19950815	NO19950002373	19950615
NO952373 A0	19950615	NO19950002373	19950615

Priority:

US19920991688 19921216 WO1993US12253 19931216

Probable Assignee: NABISCO INC

Assignee(s): (std): NABISCO INC

Assignee(s): OTTERBURN MICHAEL S ; WHEELER EDWARD L

Inventor(s): (std): EDWARD L WHEELER ; MICHAEL S OTTERBURN ; OTTERBURN MICHAEL S ; WHEELER EDWARD L

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details

AT214548 E	20020415	LSGT	+	granted / extensions (spc, cpc, pte)	
AT214548 E	20020915	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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AU689092 B2	19980326	LSGT	+	granted / extensions (spc, cpc, pte)	
AU689092 B2	20131216	PEXP		Calculated Patent Term Expiry	
BRPI9307658 A	19990908	LSPB	+	published / reissued	
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BRPI9307658 A	20020903	LSRV	-FC	DECISION: REFUSAL	
CA2151053 AA	19950605	LSPB	+	published / reissued	
CA2151053 AA	20001218	LSES	+EEER	EXAMINATION REQUEST	
CA2151053 C	20041109	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2151053 C	20071217	LSLE	-MKLA	LAPSED	
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DE69331748 T2	20021010	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69331748 T2	20131216	PEXP		Calculated Patent Term Expiry	
EP0674480 A1	19951004	LSPB	+	published / reissued	
EP0674480 A1	19951004	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950607
EP0674480 A1	19951011	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19950830
EP0674480 A1	19981014	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19980831
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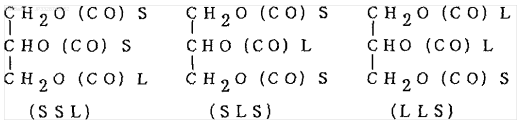
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EP0674480 A1	20051207	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20051207 YEAR OF FEE PAYMENT : 13
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EP0674480 A1	20051226	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20051226 YEAR OF FEE PAYMENT : 13
EP0674480 A1	20060131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20060131 YEAR OF FEE PAYMENT : 13
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EP0674480 A1	20071005	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20070831
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				EPO	LAPSED DATE : 20071216
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EP0674480 B1	20131216	PEXP		Calculated Patent Term Expiry	
FI952963 A	19950713	LSPB	+	published / reissued	
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JP3496075 B2	20131216	PEXP		Calculated Patent Term Expiry	
JP8504582 T2	19960521	LSPB	+	published / reissued	
KR100301173 B1	20011122	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100301173 B1	20161122	PEXP		Calculated Patent Term Expiry	
KR19950703864 A	19951117	LSPB	+	published / reissued	
KR19957003864 A	19951117	LSPB	+	published / reissued	
NO952373 A	19950815	LSPB	+	published / reissued	
NO952373 A	20020225	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	

16) Family number: 33534952 (NO952883A)

Title: SPISELIG SPRAYOLJE

Abstract: Source: NO952883A [NO] Ikke-fettede sprayeoljer for snacks og andre naeringsprodukter er spesielt an- vendelige for a feste aktuelle kryddere til produktene. Sprayeoljene inneholder fett som baerer korte eddiksyre-, pro- pionsyre- og/eller smoersyrerester og lange, mettede Clfi_2,-fe ttsyrerester. Saerlig foretrukne er triglyserider som har en fastfettindeks ved 21,1 "C pa minst 50 percent, mer foretrukket minst 60 percent, og en fastfettindeks pa 40 percent, mer foretruk- ket minst 50 percent, ved 26,7 "C. En foretruk- ken utfoerelsesform inneholder triglyse- rider hvor minst 75 percent av de lange syre- rester utgjoeres av stearinsyre eller lengre rester, og de korte rester utgjoe- res av en blanding av eddiksyre- og pro- pionsyrerester, en blanding av eddik- syre- og smoersyrerester eller en blan- ding av eddiksyre-, propionsyre- og smoersyrerester. Sprayeoljene har lavt kaloriinnhold og er oksidasjonsresistente. **Machine translation:** Non-fat spray oils for snacks and other naeringsprodukter is especially an all-consuming for a particular seasonings stick to the products. Spray oils are fats that carry the card acetic acid, propionic acid and / or smoersyrerester and long, saturated Clfi_2,-fe ttsyrerester. Particularly preferred are triglycerides having a solid fat index at 21.1 "C of at least 50 percent, more preferably at least 60 percent, and one solid fat index pa 40 percent, more foretruk-ing at least 50 percent, at 26.7" C. A preferred utfoerelsesform containing triglycerides wherein at least 75 percent of the long acid residues utgjoeres of stearic acid or long residue, and the short residues consti-res of a mixture of acetic and propionic acid residues, a mixture of acetic acid - and smoersyrerester or a mixture of acetic acid, propionic acid and smoersyrerester. Spray oils are low in calories and is oxidation resistant.



Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/216 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention); A23D9/00 A23G3/34 (Advanced/Non-invention)
International (IPC 1-7): A21D13/00 A23D9/00 A23G3/00 A23L1/00 A23L1/216 A23L1/217
CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 C11C3/10
European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AU199460943 A1	19940815	AU19940060943	19940124
AU671355 B2	19960822	AU19940060943	19940124
BRPI9405665 A	19951121	BR1994PI05665	19940124
EP0680262 A1	19951108	EP19940907300	19940124
EP0680262 A4	19950913	EP19940907300	19940124
FI953535 A	19950721	FI19950003535	19950721
FI953535 A0	19950721	FI19950003535	19950721
JP3328743 B2	20020930	JP19940517245T	19940124
JP8505779 T2	19960625	JP19940517245T	19940124
KR100288564 B1	20010601	KR19950703045	19950722
KR19960700011 A	19960119	KR19950703045	19950722
KR19967000011 A	19960119	KR19957003045	19940124
NO952883 A	19950828	NO19950002883	19950720
NO952883 A0	19950720	NO19950002883	19950720

Priority:
US19930007447 19930122 WO1994US00824 19940124

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Inventor(s): (std): CHRYSAM MICHAEL M ; JOANNE SULLIVAN ; MICHAEL M CHRYSAM ; SULLIVAN JOANNE
Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU199460943 A1	19940815	LSPB	+	published / reissued	
AU671355 B2	19960822	LSGT	+	granted / extensions (spc, cpc, pte)	
AU671355 B2	20010823	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU671355 B2	20140124	PEXP		Calculated Patent Term Expiry	
BRPI9405665 A	19951121	LSPB	+	published / reissued	
BRPI9405665 A	19990720	LSES	-EG	TECHNICAL EXAMINATION (OPINION):	

				PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9405665 A	20000208	LSRV	-FC	DECISION: REFUSAL	
BRPI9405665 A	20000704	LSAL	CKFC	APPEAL: APPEAL AGAINST REFUSAL	
EP0680262 A1	19951108	LSPB	+	published / reissued	
EP0680262 A1	19951108	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950713
EP0680262 A1	19990203	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19981221
EP0680262 A1	20010131	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20000808
EP0680262 A4	19950913	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	
FI953535 A	19950721	LSPB	+	published / reissued	
JP3328743 B2	20020930	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3328743 B2	20050809	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3328743 B2	20060808	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
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KR100288564 B1	20010601	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100288564 B1	20160601	PEXP		Calculated Patent Term Expiry	
KR19960700011 A	19960119	LSPB	+	published / reissued	
KR19967000011 A	19960119	LSPB	+	published / reissued	
NO952883 A	19950828	LSPB	+	published / reissued	
NO952883 A	20011001	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	

17) Family number: 33534953 (WO9418290A1)

Title: SYNTHESIS OF ACETOGLYCERIDE FATS

Abstract: Acetoglycerides are prepared in a solventless, single phase interesterification between triacetin and triglycerides bearing long C16 to C22 fatty acid residues by adding triglycerides bearing saturated C3 to C10 acid residues to the reaction mixture. The long acid residues may be hydrogenated before or after interesterification. In one embodiment, the C3 to C10 triglycerides are tripropionin, tributyrin, or mixtures of these; in another, these are triglycerides bearing C8 to C10 acid residues; and in a third, these are a mixture of tripropionin and/or tributyrin and C8 to C10 triglycerides. In preferred embodiments, the molar ratio of C16 to C22 triglycerides to triacetin and C3 to C10 triglycerides varies between 1:1 and 1:15, more narrowly between 1:3 and 1:12, and high temperatures are employed. The process diminishes catalyst use, obviates the need for high shear mixing, shortens reaction times, and simplifies purification steps.

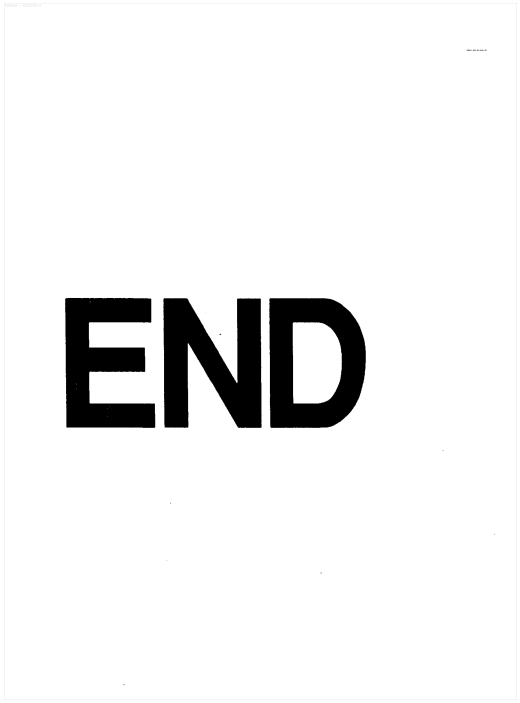
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International (IPC 1-7): C07C67/02 C11C3/04 C11C3/10

CPC: Y02P20/582 C11C3/10 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
AU199460998 A1	19940829	AU19940060998	19940203
AU670187 B2	19960704	AU19940060998	19940203
BRPI9405681 A	19951121	BR1994PI05681	19940203
CA2153411 AA	19950706	CA19942153411	19940203
EP0682689 A1	19951122	EP19940907395	19940203
EP0682689 A4	19960228	EP19940907395	19940203
FI953685 A	19950830	FI19950003685	19950802
FI953685 A0	19950802	FI19950003685	19950802
JP8506607 T2	19960716	JP19940518160T	19940203
KR100286955 B1	20010416	KR19950703208	19950803
KR19960701180 A	19960224	KR19950703208	19940203
NO953043 A	19950929	NO19950003043	19950802
NO953043 A0	19950802	NO19950003043	19950802
NZ261791 A	19970324	NZ19940261791	19940203
TW408107 B	20001011	TW19940102908	19940402
WO9418290 A1	19940818	WO1994US01145	19940203

Priority:

US19930012712 19930203 WO1994US01145 19940203

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Inventor(s): PELLOSO TURIDDU

Agent(s): SMART AND BIGGAR

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL NO NZ PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199460998 A1	19940829	LSPB	+	published / reissued	
AU670187 B2	19960704	LSGT	+	granted / extensions (spc, cpc, pte)	
AU670187 B2	20140203	PEXP		Calculated Patent Term Expiry	
BRPI9405681 A	19951121	LSPB	+	published / reissued	
BRPI9405681 A	19990824	LSES	-EG	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9405681 A	20000530	LSRV	-FC	DECISION: REFUSAL	
CA2153411 AA	19950706	LSPB	+	published / reissued	
CA2153411 AA	20020204	LSLE	-FZDE	DEAD	
EP0682689 A1	19951122	LSPB	+	published / reissued	
EP0682689 A1	19951122	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950724
EP0682689 A4	19960228	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19960110
EP0682689 A4	19980415	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19980302
EP0682689 A4	19990317	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19980915
FI953685 A	19950830	LSPB	+	published / reissued	
JP8506607 T2	19960716	LSPB	+	published / reissued	
KR100286955 B1	20010416	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100286955 B1	20160416	PEXP		Calculated Patent Term Expiry	
KR19960701180 A	19960224	LSPB	+	published / reissued	
NO953043 A	19950929	LSPB	+	published / reissued	
NZ261791 A	19970324	LSPB	+	published / reissued	
TW408107 B	20001011	LSGT	+	granted / extensions (spc, cpc, pte)	
TW408107 B	20010309	LSGT	+GD4A	ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT	
TW408107 B	20140402	PEXP		Calculated Patent Term Expiry	
WO9418290 A1	19940818	LSPB	+	published / reissued	
WO9418290 A1	19950706	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2153411 COUNTRY OF REF DOCUMENT : CA
WO9418290 A1	19950724	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994907395 COUNTRY OF REF DOCUMENT : EP
WO9418290 A1	19950726	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 261791 COUNTRY OF REF DOCUMENT : NZ
WO9418290 A1	19950802	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 953685 COUNTRY OF REF DOCUMENT : FI
WO9418290 A1	19951122	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994907395 COUNTRY OF REF DOCUMENT : EP

WO9418290 A1	19980915	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994907395 COUNTRY OF REF DOCUMENT : EP

18) Family number: 33534965 (NO953463A)

Title: FREMSTILLING AV FETTBLANDINGER ANRIKET MED TRIGLYSERIDER INNEHOLDENDE KORTE, MIDDELS OG LANGE RESIDUER

Abstract: Source: NO953463A [NO] Fettblandinger inneholdende minst ca. 24 percent, mer foretrukket minst ca. 34 percent, triglyserider inneholdende korte, middels og lange rester er frem- stilt. Mange utfoerelsesformer inne- holder minst ca. 50 percent, og noen minst ca. 75 til 90 percent, av disse triglyse- rider, og har et acylkarbontall pa 26 til 36. Spesielt foretrukne korte substituenter er avledet fra eddiksyre, smoersyre og blandinger av disse med hverandre og med propionsyre. I spesielt foretrukne middels substitu- enter er minst ca. 90 percent av restene av- ledet fra kaprinsyre, kaprylsyre og blandinger av disse. Spesielt fore- trukne lange substituenter inneholder minst ca. 70 percent, og mange inneholder ca. 85 percent stearinsyre- eller behensyrerester eller blandinger av disse. Disse fett- stoffer kan fremstilles ved inter- forestring av en blanding av tri- glyserider inneholdende korte rester og triglyserider inneholdende middels rester med triglyserider inneholdende lange rester, etterfulgt av dampdeo- dorisering av produktet ved hoeye temperaturer.

Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11B3/10 C11B3/12 C11B3/14 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A23D7/00 A23D9/00 A23D9/007 (Advanced/Non-invention)

International (IPC 1-7): A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23D9/02 C11B3/10 C11B3/12 C11B3/14 C11C3/10

CPC: A23K50/42 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AU199462533 A1	19940926	AU19940062533	19940304
AU671205 B2	19960815	AU19940062533	19940304
BRPI9407892 A	19961119	BR1994PI07892	19940304
CL1994000325 A1	19950530	CL19940000325	19940307
EP0687145 A1	19951220	EP19940909854	19940304
EP0687145 A4	19960228	EP19940909854	19940304
FI954144 A	19950927	FI19950004144	19950904
FI954144 A0	19950904	FI19950004144	19950904
JP8507566 T2	19960813	JP19940520187T	19940304
KR19960700631 A	19960224	KR19950703740	19940304
NO953463 A	19951103	NO19950003463	19950904
NO953463 A0	19950904	NO19950003463	19950904

Priority:

US19930026894 19930305 WO1994US02343 19940304

Probable Assignee: NABISCO INC

Assignee(s): (std): NABISCO INC

Inventor(s): (std): ALLAN D RODEN ; BOLDT GILBERT L ; GILBERT L BOLDT ; KLEMANN LAWRENCE P ; LAWRENCE P KLEMANN ; PELLOSO TURIDDU A ; RODEN ALLAN D ; TURIDDU A PELLOSO

Inventor(s): PELLOSO TURIDDU

Agent(s): HARNECKER

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199462533 A1	19940926	LSPB	+	published / reissued	
AU671205 B2	19960815	LSGT	+	granted / extensions (spc, cpc, pte)	
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BRPI9407892 A	19990720	LSES	-EG	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
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CL1994000325 A1	19950530	LSPB	+	published / reissued	
EP0687145 A1	19951220	LSPB	+	published / reissued	
EP0687145 A1	19951220	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950823

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FI954144 A	19950927	LSPB	+	published / reissued	
JP8507566 T2	19960813	LSPB	+	published / reissued	
KR19960700631 A	19960224	LSPB	+	published / reissued	
NO953463 A	19951103	LSPB	+	published / reissued	
NO953463 A	20011119	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	

19) Family number: 33535308 (EP0652714B1)

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Title: PROCESS FOR PREPARING SOFT CENTERS IN FOOD PRODUCTS

Abstract: Source: EP0652714B1 [EN] (Claim 1) 1. A process for preparing a food product containing regions of contrasting textures comprising formulating a first fat-containing composition and then coating the composition with a second composition containing a mixture of triglycerides bearing long, saturated C_{16} to C_{22} fatty acid residues and short C_2 to C_4 acid residues that migrates into the first composition at equilibrium, under conditions effective to soften the first composition while retaining the structural integrity of the second composition.

Classifications:

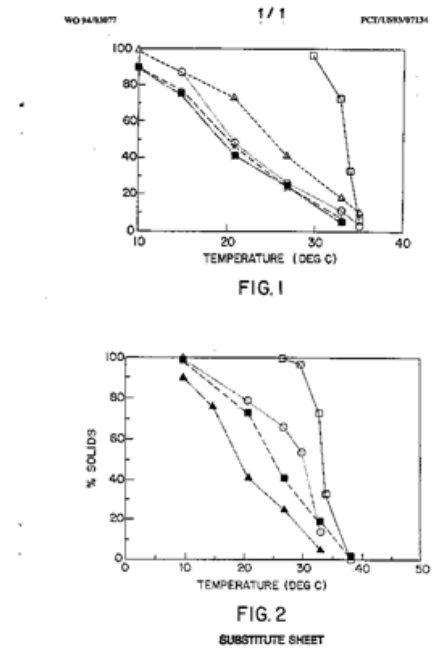
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 A23P1/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)

International (IPC 1-7): A23D9/00 A23G1/00 A23G3/00 A23P1/08

CPC: A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A23D7/00 A23K50/42

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

PatBase – EP0652714_A1



Family:

Publication number	Publication date	Application number	Application date
AT260574 E	20040315	AT19930918485T	19930728
CA2141543 AA	19950131	CA19932141543	19930728
CA2141543 C	20050104	CA19932141543	19930728
DE69333435 D1	20040408	DE19936033435	19930728
DE69333435 T2	20040819	DE19936033435T	19930728
EP0652714 A1	19950517	EP19930918485	19930728
EP0652714 A4	19981118	EP19930918485	19930728
EP0652714 B1	20040303	EP19930918485	19930728
JP07509367 T2	19951019	JP19940505430T	19930728
JP3500537 B2	20040223	JP19940505430T	19930728
JP7509367 T2	19951019	JP19940505430T	19930728

Priority:

US19920924724 19920803 WO1993US07134 19930728

Probable Assignee: DANISCO USA INC

Assignee(s): (std): DANISCO USA INC ; NABISCO INC

Assignee(s): WHEELER EDWARD L ; BUSK G CURTIS JR

Inventor(s): (std): BUSK CURTIS ; BUSK G CURTIS JR ; WHEELER EDWARD L ; WHEELER L

Inventor(s): BUSK G

Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT260574 E	20040315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT260574 E	20040915	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AT260574 E	20130728	PEXP		Calculated Patent Term Expiry	
CA2141543 AA	19950131	LSPB	+	published / reissued	
CA2141543 AA	20000725	LSES	+EEER	EXAMINATION REQUEST	
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CA2141543 C	20080728	LSLE	-MKLA	LAPSED	
CA2141543 C	20130728	PEXP		Calculated Patent Term Expiry	
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DE69333435 T2	20130728	PEXP		Calculated Patent Term Expiry	
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EP0652714 A1	19950517	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19950127
EP0652714 A1	19981118	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19981005
EP0652714 A1	19991222	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19991105
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EP0652714 A1	20080430	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : DE

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EP0652714 B1	20130728	PEXP		Calculated Patent Term Expiry	
JP07509367 T2	19951019	LSPB	+	published / reissued	
JP3500537 B2	20040223	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3500537 B2	20061212	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3500537 B2	20130728	PEXP		Calculated Patent Term Expiry	
JP7509367 T2	19951019	LSPB	+	published / reissued	

20) Family number: 33535310 (WO9414339A1)

Title: METHOD FOR CONTROLLING COOKIE GEOMETRY

Abstract: A method for controlling spread in cookies uses in the cookie dough a shortening comprising geometry-altering triglycerides bearing long C16 to C22 saturated fatty acid residues and short C2 to C4 acid residues. In a preferred embodiment, the triglycerides have a solid fat index of about 10 percent to about 70 percent between 15 degrees centrigrade and 30 DEG C, and the long residues are a mixture containing at least about 75 percent stearic acid residues while the short residues are derived from a mixture of acetic and propionic acid, a mixture of acetic and butyric, or a mixture of acetic, propionic, and butyric acid. The method is especially adapted to reducing spread in cookies containing an ingredient that promotes spread such as polydextrose. Cookies prepared with polydextrose and geometry-altering triglyceride compositions are low in calories.

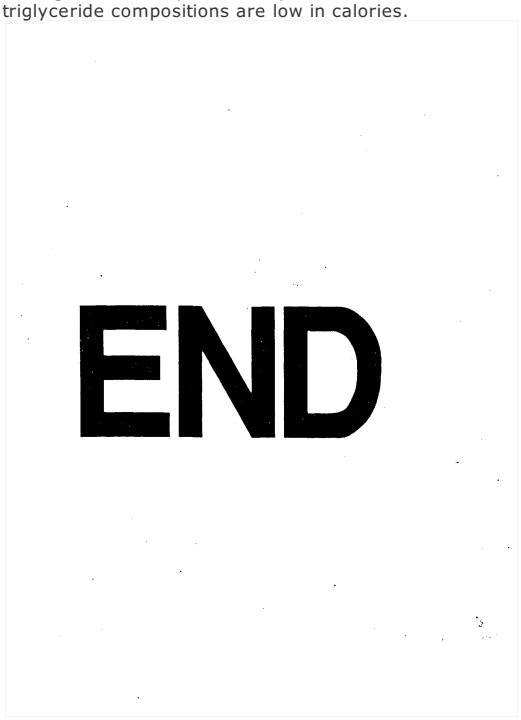
Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A21D8/02 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)

International (IPC 1-7): A21D2/08 A21D2/16 A21D8/02 A23D9/00 A23L1/10

CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A21D13/80

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D13/08 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
CA2151133 AA	19950606	CA19932151133	19931220
JP3177895 B2	20010618	JP19940515369T	19931220
MX9400109 A1	19940729	MX19940000109	19940103
NZ259650 A	19970526	NZ19930259650	19931220
WO9414339 A1	19940707	WO1993US12409	19931220

Priority:

US19920996419 19921223 WO1993US12409 19931220

Probable Assignee: NABISCO INC

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Assignee(s): CHEDID LISA ; HENNESSEY JANET

Inventor(s): (std): CHEDID LISA ; HENNESSEY JANET

Inventor(s): JANET HENNESSEY ; LISA CHEDID

Agent(s): SMART AND BIGGAR

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KP LU MC NL NO NZ PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2151133 AA	19950606	LSPB	+	published / reissued	
CA2151133 AA	20001220	LSES	+EEER	EXAMINATION REQUEST	
CA2151133 AA	20041101	LSLE	-FZDE	DEAD	
JP3177895 B2	20010618	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3177895 B2	20040420	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250

JP3177895 B2	20050426	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3177895 B2	20060425	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3177895 B2	20070413	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3177895 B2	20131220	PEXP		Calculated Patent Term Expiry	
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MX9400109 A1	19970702	LSGT	+FG	GRANT OR REGISTRATION	
MX9400109 A1	20150430	LSLE	-MM	ANNULMENT OR LAPSE DUE TO NON-PAYMENT OF FEES	
NZ259650 A	19970526	LSPB	+	published / reissued	
NZ259650 A	20040130	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
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WO9414339 A1	19950609	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994904507 COUNTRY OF REF DOCUMENT : EP
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WO9414339 A1	19950622	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 953144 COUNTRY OF REF DOCUMENT : FI
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WO9414339 A1	20010720	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994904507 COUNTRY OF REF DOCUMENT : EP

21) Family number: 33535313 (WO9416573A1)

Title: EDIBLE SPRAY OIL

Abstract: Non-greasy spray oils for snack and other food products are especially useful for adhering topical seasonings or condiments to the products. The spray oils contain fats bearing short acetic acid, propionic and/or butyric acid residues, and long, saturated C16 to C24 fatty acid residues. Especially preferred are triglycerides exhibiting a solid fat index at 70 DEG F of at least about 50 percent, more preferably at least about 60 percent, and at least about 40 percent, more preferably at least about 50 percent, at 80 DEG F. One preferred embodiment contains triglycerides wherein at least about 75 percent of the long acid residues are stearic acid or longer residues and the short residues are mixtures of acetic acid and propionic acid residues, acetic acid and butyric acid residues, or a mixture of acetic acid, propionic acid, and butyric acid residues. The spray oils are low in calories and oxidation resistant.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/216 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00 A23P1/08
CPC: Y10S426/804 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 A23K50/42 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 C11C3/10
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Family:

Publication number	Publication date	Application number	Application date
CA2153413 AA	19950706	CA19942153413	19940124
NZ261757 A	19960827	NZ19940261757	19940124
WO9416573 A1	19940804	WO1994US00824	19940124

Priority:
US19930007447 19930122 WO1994US00824 19940124

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Assignee(s): SULLIVAN JOANNE ; CHRYSAM MICHAEL M
Inventor(s): (std): CHRYSAM MICHAEL M ; SULLIVAN JOANNE
Agent(s): SMART AND BIGGAR
Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL NO NZ PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2153413 AA	19950706	LSPB	+	published / reissued	
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WO9416573 A1	19940804	LSPB	+	published / reissued	
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WO9416573 A1	19950712	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO	REF DOCUMENT NUMBER

				NATIONAL PHASE	: 261757 COUNTRY OF REF DOCUMENT : NZ
WO9416573 A1	19950713	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994907300 COUNTRY OF REF DOCUMENT : EP
WO9416573 A1	19950721	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 953535 COUNTRY OF REF DOCUMENT : FI
WO9416573 A1	19951108	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994907300 COUNTRY OF REF DOCUMENT : EP
WO9416573 A1	20000808	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994907300 COUNTRY OF REF DOCUMENT : EP

22) Family number: 33535314 (WO9419961A1)

Title: PRODUCTION OF FAT MIXTURES ENRICHED WITH TRIGLYCERIDES BEARING SHORT, MEDIUM AND LONG RESIDUES

Abstract: Fat mixtures containing at least about 24 percent, more preferably at least about 34 percent, triglycerides bearing short, medium, and long residues are prepared. Many embodiments contain at least about 50 percent, and some at least about 75 percent to 90 percent, of these triglycerides, and have an acyl carbon number of 26 to 36. Especially preferred short substituents are derived from acetic acid, butyric acid, and mixtures of these with each other and with propionic acid. Especially preferred medium substituents have at least about 90 percent of the residues derived from capric acid, caprylic acid, and mixtures of these. Especially preferred long substituents contain at least about 70 percent, and many have at least about 85 percent, stearic acid or behenic acid residues or mixtures of these. These fats may be prepared by interesterifying a mixture of triglycerides bearing short residues and triglycerides bearing medium residues with triglycerides bearing long residues and steam deodorizing the product at high temperatures.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11B3/10 C11B3/12 C11B3/14 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00
CPC: A23K50/42 A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38
European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
CA2156612 AA	19950821	CA19942156612	19940304
IL108813 A0	19940624	IL19940108813	19940302
IL108813 A1	19980405	IL19940108813	19940302
NZ262703 A	19970526	NZ19940262703	19940304
PH30298 A	19970220	PH19940047884	19940304
WO9419961 A1	19940915	WO1994US02343	19940304

Priority:
US19930026894 19930305 WO1994US02343 19940304

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Assignee(s): PELLOSO TURIDDU A ; RODEN ALLAN D ; BOLDT GILBERT L ; KLEMANN LAWRENCE P ; NABISCO
Inventor(s): (std): BOLDT GILBERT L ; KLEMANN LAWRENCE P ; PELLOSO TURIDDU A ; RODEN ALLAN D
Agent(s): SMART AND BIGGAR; REINHOLD COHN AND PARTNERS
Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL NO NZ PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2156612 AA	19950821	LSPB	+	published / reissued	
CA2156612 AA	20020304	LSLE	-FZDE	DEAD	
IL108813 A1	19980405	LSPB	+	published / reissued	
IL108813 A1	19981030	LSGT	+FF	PATENT GRANTED	
IL108813 A1	19990126	LSFE	+KB	PATENT RENEWED	
IL108813 A1	20000831	LSFE	+KB	PATENT RENEWED	

IL108813 A1	20040512	LSFE	+KB	PATENT RENEWED	
IL108813 A1	20090211	LSLE	-MM9K	PATENT NOT IN FORCE DUE TO NON-PAYMENT OF RENEWAL FEES	
IL108813 A1	20100414	LSLE	-MM9K	PATENT NOT IN FORCE DUE TO NON-PAYMENT OF RENEWAL FEES	
NZ262703 A	19970526	LSPB	+	published / reissued	
PH30298 A	19970220	LSGT	+	granted / extensions (spc, cpc, pte)	
PH30298 A	20140220	PEXP		Calculated Patent Term Expiry	
WO9419961 A1	19940915	LSPB	+	published / reissued	
WO9419961 A1	19950821	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2156612 COUNTRY OF REF DOCUMENT : CA
WO9419961 A1	19950823	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994909854 COUNTRY OF REF DOCUMENT : EP
WO9419961 A1	19950829	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 262703 COUNTRY OF REF DOCUMENT : NZ
WO9419961 A1	19950904	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 954144 COUNTRY OF REF DOCUMENT : FI
WO9419961 A1	19951220	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994909854 COUNTRY OF REF DOCUMENT : EP
WO9419961 A1	20010626	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994909854 COUNTRY OF REF DOCUMENT : EP

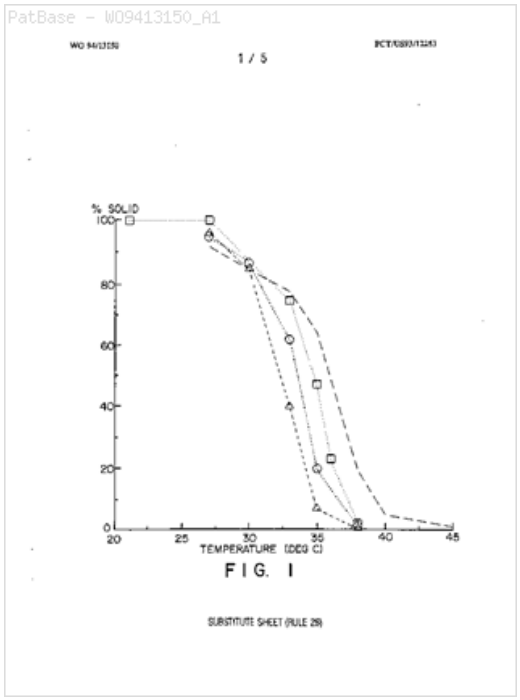
23) Family number: 33537396 (WO9413150A1)

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Title: CRYSTAL MODIFIERS FOR DIACETIN FATS

Abstract: The physical properties of diacetin fats such as diacetopalmitin, diacetostearin, and diacetoarachidin, diacetobehenin are modulated by mixing them with about 10 percent to about 16 percent crystal modifier fats that are triglycerides bearing one short C2 to C4 acid residue and two long, saturated C16 to C22 fatty acid residues per molecule. The modified diacetin fats, which exhibit improved snap, gloss, hardness, bloom resistance, and mold release, are suitable for use in edible coatings, especially confectionery coatings.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00 A23D9/06 A23G3/00
CPC: Y10S426/804 A23G3/40 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G3/40 A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C07C69/675 C07C69/70 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
ES2173114 T3	20021016	ES19940904847T	19931216
NZ259788 A	19960625	NZ19930259788	19931216
WO9413150 A1	19940623	WO1993US12253	19931216

Priority:
US19920991688 19921216

Probable Assignee: NABISCO INC
Assignee(s): (std): DANISCO CULTOR AMERICA INC ; NABISCO INC
Inventor(s): (std): OTTERBURN MICHAEL S ; WHEELER EDWARD L
Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL NO NZ PT SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
ES2173114 T3	20021016	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2173114 T3	20021016	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 674480 COUNTRY OF REF DOCUMENT : ES
ES2173114 T3	20131216	PEXP		Calculated Patent Term Expiry	
NZ259788 A	19960625	LSPB	+	published / reissued	
NZ259788 A	20040130	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
WO9413150 A1	19940623	LSPB	+	published / reissued	
WO9413150 A1	19950605	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2151053 COUNTRY OF REF DOCUMENT : CA

WO9413150 A1	19950607	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994904847 COUNTRY OF REF DOCUMENT : EP
WO9413150 A1	19950613	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 259788 COUNTRY OF REF DOCUMENT : NZ
WO9413150 A1	19950615	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 952963 COUNTRY OF REF DOCUMENT : FI
WO9413150 A1	19951004	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994904847 COUNTRY OF REF DOCUMENT : EP
WO9413150 A1	20020320	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994904847 COUNTRY OF REF DOCUMENT : EP

24) Family number: 33537743 (WO9403077A1)

Title: PROCESS FOR PREPARING SOFT CENTERS IN FOOD PRODUCTS

Abstract: Food products having soft or liquid centers, layers or other areas are formulated by arranging two fat-containing components contiguous with one another. A fat in the first component migrates into the second, forming a mixture having a lower solids content than the second fat, while the structural integrity of the first component is maintained. The process is especially adapted to the formation of soft- and liquid-centered confections. One preferred embodiment employs fats bearing long, saturated C16 to C22 fatty acid residues and a mixture of short C2 to C4 acid residues, preferably containing acetic acid residues, as the migrating fat in a confectionery coating, and hydrogenated coconut or palm kernel oil as the fat in the confectionery center. An especially preferred embodiment employs, as the migrating fat, triglycerides bearing long, saturated substituents containing at least about 75 percent stearic acid residues and short residues derived from acetic acid, a mixture of acetic and propionic acid, or a mixture of acetic and butyric acid. Since sucrose and invertase are not essential elements of the center, artificial sweeteners can be used to replace all or part of the sucrose, resulting in reduced calorie confections. Caloric reduction is further enhanced because preferred migrating fats are low in calories.

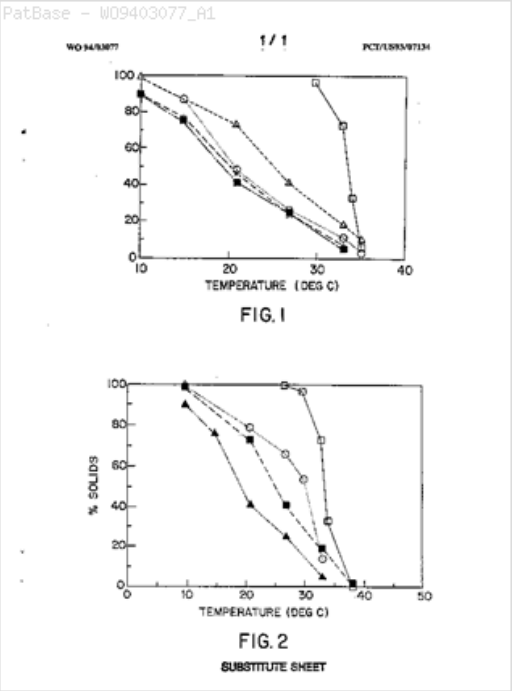
Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/30 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 A23P1/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)

International (IPC 1-7): A23G3/00 A23P1/08

CPC: A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38 A23D7/00 A23K50/42

European: A21D13/00B8 A21D13/00D12 A21D13/00D6 A21D2/16 A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G3/54H A23G9/32G A23G9/52 A23K1/18N2 A23L1/00P8B8 A23L1/164B A23L1/18F A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
ES2213143 T3	20040816	ES19930918485T	19930728
WO9403077 A1	19940217	WO1993US07134	19930728

Priority:

US19920924724 19920803

Probable Assignee: NABISCO INC

Assignee(s): (std): DANISCO USA INC ; NABISCO INC

Inventor(s): (std): BUSK G CURTIS JR ; WHEELER EDWARD L

Inventor(s): BUSK G

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2213143 T3	20040816	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2213143 T3	20130728	PEXP		Calculated Patent Term Expiry	
WO9403077 A1	19940217	LSPB	+	published / reissued	
WO9403077 A1	19950127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1993918485 COUNTRY OF REF DOCUMENT : EP
WO9403077 A1	19950131	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2141543 COUNTRY OF REF DOCUMENT : CA

WO9403077 A1	19950517	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993918485 COUNTRY OF REF DOCUMENT : EP
WO9403077 A1	20040303	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993918485 COUNTRY OF REF DOCUMENT : EP

25) Family number: 45721123 (TW279788B)

Title: Including has short, and system of Farben fat of mixture long remnant base triglyceride invents (Machine translation)

Abstract: Source: TW279788B

Machine translation: Is richly the preparation includes at least approximately 24 weights % (take at least approximately 34 weights % as good) short, and fat of mixture the long remnant base triglyceride. In many implementation example includes at least approximately 50%, some include at least approximately 75 to 90% these triglyceride, also its acyl radicals carbon numbers are 26 to 36. The specially good short substituting group grows from the acetic acid, the butyric acid and they and mixture of the propionic acid. In the specially good medium substituting group approximately 90% remnant base grow at least from bitter, the capric acid and their mixture. The specially good long substituting group includes approximately 70% (many includes at least at least approximately 85%) the stearic acid either the behenic acid remnant base or their mixture. In an implementation example, the acyl radicals carbon numbers are 28 to 32 also the long remnant base mainly are the stearic acid remnant base. In another implementation example, the acyl radicals carbon numbers are 32 to 36 also the long remnant base mainly are the behenic acid remnant base. But these fats might because of have the short remnant base the triglyceride and the remnant base triglyceride give the interesterification and with the long remnant base mixture of triglyceride carry on steam air sweetening processing under the quite high temperature to the product the way to make. May cause the process steam air sweetening using the molecular distillation way in the product richly including to have short, and the long remnant base triglyceride.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/32 A23G9/52 A23K1/18 A23L1/00 A23L1/164 A23L1/18 A23L1/19 A23L1/30 A23L1/36 C07C67/02 C07C69/30 C11B3/10 C11B3/12 C11B3/14 C11C3/04 C11C3/08 C11C3/10 G06F7/06 G11B20/12 G11B27/10 G11B7/007 H04N5/781 H04N9/82 (Advanced/Invention);
H04N5/85 H04N9/804 (Advanced/Non-invention);
G06F7/06 G11B20/12 G11B27/10 G11B7/007 H04N5/781 H04N9/82 (Core/Invention);
H04N5/84 H04N9/804 (Core/Non-invention)
International (IPC 1-7): A23D9/02
CPC: A21D2/16 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G3/545 A23G9/327 A23G9/52 A23G2200/08 A23K50/42 C07C67/02 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L7/122 A23L7/191 A23L9/22 A23L25/20 A23L33/115 A23L33/12 A23P20/11 A21D13/28 A21D13/34 A21D13/38

Family:

Publication number	Publication date	Application number	Application date
TW279788 B	19960701	TW19940104339	19940513

Priority:
US19930026894 19930305

Probable Assignee: NIBISCO INC
Assignee(s): (std)**:** NIBISCO INC
Assignee(s): SCOTT WILL TAKE CO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
TW279788 B	19960701	LSGT	+	granted / extensions (spc, cpc, pte)	
TW279788 B	20140513	PEXP		Calculated Patent Term Expiry	

26) Family number: 12064740 (US6025348A)

Title: OIL AND FAT COMPOSITION CONTAINING PHYTOSTEROL

Abstract: Source: US6025348A [EN] An oil/fat composition is provided which lowers the blood cholesterol level of a person having a high cholesterol level when used in daily life similarly to ordinary fats and is usable without posing any problem concerning appearance, flavor, heat cooking, etc. as compared with generally edible fats, wherein the oil/fat composition contains a phytosterol contained in an oil/fat containing one or more polyhydric alcohol/fatty acid esters each having a degree of esterification of 2 or higher and containing at least one hydroxyl group remaining unesterified.

Classifications:

International (IPC 8-9): A21D2/14 A21D2/16 A23D7/005 A23D7/01 A23D9/007 A23D9/013 A23G1/36 A23G3/00 A23G3/34 A23G9/32 A23L1/217 A23L1/24 A23L1/30 A23L1/314 A23L2/52 A61K31/23 A61K31/231 A61K31/56 A61K31/575 A61P3/06 (Advanced/Invention);
A21D2/00 A23D7/005 A23D9/007 A23G1/30 A23G3/34 A23G9/32 A23L1/214 A23L1/24 A23L1/30 A23L1/314 A23L2/52 A61K31/56 (Core/Invention)

International (IPC 1-7): A21D2/14 A21D2/16 A21K31/235 A23D7/00 A23D7/005 A23D70/05 A23D9/00 A23D9/007 A23D9/07 A23G1/00 A23G3/00 A23L1/24 A23L1/30 A23L2/00 A23L2/52 A23L2/56 A61K31/23 A61K31/235 A61K31/56 A61K31/575 A61P3/00

CPC: Y10S514/824 A23L19/18 A23L27/60 A23L33/11 A23L13/43 A23L33/115 A61K31/56 A23L2/52 A21D2/14 A21D2/16 A23D7/0053 A23D7/0056 A23D7/011 A23D7/013 A23D9/007 A23D9/013 A23G1/36 A23G3/346 A23G9/327 A23G2200/04 A23G2200/08 A23V2002/00

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US: 424/439 426/590 426/601 426/611 435/134 514/182 514/533 514/824

Family:

Publication number	Publication date	Application number	Application date
BRPI9904796 A	20000530	BR1999PI04796	19990217
BRPI9904796 B1	20120222	BR1999PI04796	19990217
CA2279402 AA	19990716	CA19992279402	19990217
CA2279402 C	20090407	CA19992279402	19990217
CN1125596 C	20031029	CN19998000322	19990217
CN1195420 C	20050406	CN20031010344	19990217
CN1258199 A	20000628	CN19998000322	19990217
CN1267030 C	20060802	CN20031010336	19990217
CN1448059 A	20031015	CN20031010344	19990217
CN1515197 A	20040728	CN20031010336	19990217
DE69940629 D1	20090507	DE19996040629	19990217
DK0990391 T3	20090608	DK19990905211T	19990217
EP0990391 A1	20000405	EP19990905211	19990217
EP0990391 A4	20020925	EP19990905211	19990217
EP0990391 B1	20090325	EP19990905211	19990217
JP3720057 B1	20051124	JP19990528195	19990217
JP3720057 B2	20051124	JP19990528195T	19990217
MY125898 A	20060830	MY19990000590	19990219
TWI235037 B	20050701	TW19990102507	19990219
US6025348 A	20000215	US19980069754	19980430
US6139897 A	20001031	US19990251430	19990217
US6326050 BA	20011204	US20000648546	20000828
WO9948378 A1	19990930	WO1999JP00686	19990217
WO9959423 A1	19991125	WO1998JP02228	19980521

Priority:

EO1998JP02228 19980521 JP19980075898 19980324 US20000648546 20000828
US19990251430 19990217 WO1998JP02228 19980521 US19980069754 19980430
WO1999JP00686 19990217

Probable Assignee: KAO CORP

Assignee(s): (std): KAO CORP

Assignee(s): MASUI KENJI ; NISHIDE TSUTOMU ; TANAKA YUKITAKA ; YASUKAWA TAKUJI ; GOTO NAOHIRO

Inventor(s): (std): TSUTOMU NISHIDE ; YUKITAKA GOTO NAOHIRO NISHIYAM ; YUKITAKA TANAKA ; YUKITAKE TANAKA ; YASUKAWA TAKUJI ; TSUTOMU NISHIYAMA ; TANAKA YUKITAKA ; MASUI KENJI ; NAOHIRO GOTO ; TAKUJI YASUKAWA ; NISHIDE TSUTOMU ; KENJI MASUI ; GOTO NAOHIRO

Inventor(s): GOTO NAOHIRO NISHIYAMA TSUTOMU TANAKA YUKITAKA ; TANAKA YUKITAKE ; NISHIYAMA TSUTOMU

Agent(s): SMART AND BIGGAR; HOFFMANN EITLE

Designated states: AT BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE SG

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BRPI9904796 A	20000530	LSPB	+	published / reissued	
BRPI9904796 A	20111011	LSGT	B09A	DECISION: INTENTION TO	

				GRANT	
BRPI9904796 B1	20120222	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 22/02/2012, OBSERVADAS AS CONDICOES LEGAIS.
BRPI9904796 B1	20190217	PEXP		Calculated Patent Term Expiry	
CA2279402 AA	19990716	LSPB	+	published / reissued	
CA2279402 AA	20031216	LSES	+EEER	EXAMINATION REQUEST	
CA2279402 C	20090407	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2279402 C	20190217	PEXP		Calculated Patent Term Expiry	
CN1125596 C	20031029	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1125596 C	20000628	LSPB	+C06	PUBLICATION	
CN1125596 C	20031029	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1125596 C	20170329	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN1125596 C	20190217	PEXP		Calculated Patent Term Expiry	
CN1195420 C	20050406	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1195420 C	20031015	LSPB	+C06	PUBLICATION	
CN1195420 C	20050406	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1195420 C	20170329	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN1195420 C	20190217	PEXP		Calculated Patent Term Expiry	
CN1258199 A	20000628	LSPB	+	published / reissued	
CN1267030 C	20060802	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1267030 C	20040728	LSPB	+C06	PUBLICATION	
CN1267030 C	20060802	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1267030 C	20170329	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN1267030 C	20190217	PEXP		Calculated Patent Term Expiry	
CN1448059 A	20031015	LSPB	+	published / reissued	
CN1515197 A	20040728	LSPB	+	published / reissued	
DE69940629 D1	20100415	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DK0990391 T3	20090608	LSGT	+	granted / extensions (spc,	

				cpc, pte)	
DK0990391 T3	20190217	PEXP		Calculated Patent Term Expiry	
EP0990391 A1	20000405	LSPB	+	published / reissued	
EP0990391 A1	20000510	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000313
EP0990391 A1	20160331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160111 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160209 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20160210 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160108 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160217 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160211 YEAR OF FEE PAYMENT : 18
EP0990391 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20160209 YEAR OF FEE PAYMENT : 18
EP0990391 A4	20020925	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20020808
EP0990391 A4	20080618	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20080516
EP0990391 B1	20090325	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0990391 B1	20090325	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0990391 B1	20100303	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20091229
EP0990391 B1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090325
EP0990391 B1	20150210	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP0990391 B1	20160108	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0990391 B1	20170112	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 19

EP0990391 B1	20170331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170110 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170112 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20170209 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170213 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170214 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170215 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20170531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170210 YEAR OF FEE PAYMENT : 19
EP0990391 B1	20180111	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 20
EP0990391 B1	20190217	PEXP		Calculated Patent Term Expiry	
JP3720057 B1	20051124	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3720057 B1	20050908	LSGT	+A01	特許査定書 Decision of patent grant	
JP3720057 B1	20050913	LSFE	R100	特許料納付書 Patent fee payment form	
JP3720057 B1	20050916	LSGT	R151	特許登録通知書 (一括) Patent registration notice (collective)	
JP3720057 B1	20080814	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20080819	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20090813	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20090818	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20100812	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20100817	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20110818	LSFE	R20	特許料納付書	

				Patent fee payment form	
JP3720057 B1	20110823	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20120816	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20120821	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20130815	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20130820	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20140814	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20140819	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20150813	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20150818	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20160812	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20160823	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B1	20170810	LSFE	R20	特許料納付書 Patent fee payment form	
JP3720057 B1	20170822	LSFE	+R250	年金領収書, 年金領収書 (分納) Pension receipt, annuity receipt (scheduled)	
JP3720057 B1	20190217	PEXP		Calculated Patent Term Expiry	
JP3720057 B2	20051124	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3720057 B2	20040601	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20040601
JP3720057 B2	20040819	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040730
JP3720057 B2	20050412	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20050412
JP3720057 B2	20050623	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050603
JP3720057 B2	20050831	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3720057 B2	20050906	LSGT	+A01	WRITTEN DECISION TO	TEXT : JAPANESE INTERMEDIATE CODE: A01

				GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	EFFECTIVE DATE : 20050906
JP3720057 B2	20050915	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20050907
JP3720057 B2	20080814	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3720057 B2	20080819	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3720057 B2	20090813	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3720057 B2	20090818	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3720057 B2	20100817	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3720057 B2	20110823	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3720057 B2	20120821	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3720057 B2	20130820	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B2	20140819	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B2	20150818	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B2	20160823	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B2	20170822	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3720057 B2	20190217	PEXP		Calculated Patent Term Expiry	
MY125898 A	20060830	LSGT	+	granted / extensions (spc, cpc, pte)	
MY125898 A	20210830	PEXP		Calculated Patent Term Expiry	
TWI235037 B	20050701	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI235037 B	20190219	PEXP		Calculated Patent Term Expiry	
US6025348 A	20000215	LSGT	+	granted / extensions (spc, cpc, pte)	
US6025348 A	19980721	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAO CORPORATION, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GOTO, NAOHIRO;

					TANAKA, YUKITAKA; NISHIDE, TSUTOMU; AND OTHERS; REEL/FRAME:009337/0138 EFFECTIVE DATE : 19980608
US6025348 A	20000203	LSGT	PAT1	Patented Case	
US6025348 A	20030721	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6025348 A	20070720	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6025348 A	20110713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6025348 A	20180430	PEXP		Calculated Patent Term Expiry	
US6139897 A	20001031	LSGT	+	granted / extensions (spc, cpc, pte)	
US6139897 A	19990514	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAO CORPORATION, JAPAN OLDPARTY : (ASSIGNMENT OF ASSIGNOR'S INTEREST) RE-RECORD TO CORRECT THE RECORDATION DATE OF 5/17/1999 TO 5/14/1999, PREVIOUSLY RECORDED AT REEL 9957, FRAME 0158.; ASSIGNORS:GOTO, NAOHIRO; NISHIDE, TSUTOMU; TANAKA, YUKITAKA; AND OTHERS; REEL/FRAME:011320/0078 EFFECTIVE DATE : 19990413
US6139897 A	19990517	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAO CORPORATION, JAPAN OLDPARTY : INVALID ASSIGNMENT; ASSIGNORS:GOTO, NAOHIRO; NISHIDE, TSUTOMU; TANAKA, YUKITAKA; AND OTHERS; REEL/FRAME:009957/0158 EFFECTIVE DATE : 19990413
US6139897 A	20001012	LSGT	PAT1	Patented Case	
US6139897 A	20010501	LSRE	CC	CERTIFICATE OF CORRECTION	
US6139897 A	20040323	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6139897 A	20080418	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6139897 A	20120411	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6139897 A	20190217	PEXP		Calculated Patent Term Expiry	
US6326050 BA	20011204	LSGT	+	granted / extensions (spc, cpc, pte)	
US6326050 BA	20011116	LSGT	PAT1	Patented Case	
US6326050 BA	20050512	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6326050 BA	20090506	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6326050 BA	20130308	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6326050 BA	20200828	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO9948378 A1	19990930	LSPB	+	published / reissued	
WO9948378 A1	19990716	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2279402 COUNTRY OF REF DOCUMENT : CA
WO9948378 A1	19990812	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999905211 COUNTRY OF REF DOCUMENT : EP
WO9948378 A1	20000405	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN	REF DOCUMENT NUMBER : 1999905211 COUNTRY OF REF DOCUMENT : EP

				NATIONAL OFFICE	
WO9959423 A1	19991125	LSPB	+	published / reissued	
WO9959423 A1	20010228	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

27) Family number: 2258561 (US4363763A)

Title: POLYOL ESTERS OF ALPHA-HYDROXY CARBOXYLIC ACIDS

Abstract: Source: US4363763A [EN] Polyol esters of alpha-hydroxy carboxylic acids are disclosed which are excellent oil-in-water emulsifiers for food products, drug delivery vehicles, cosmetic ointments and the like. The compounds are also useful as detergent surfactants and can be combined with cosurfactants, builders and detergent adjunct materials.

Classifications:

International (IPC 8-9): A21D2/00 A21D2/16 A23C11/06 A23D7/00 A23D7/005 A23D7/01 A23D9/013 A23G1/00 A23G1/32 A23G3/00 A23G3/36 A23G9/32 A23L1/035 A23L1/24 A23L1/308 A23L1/38 A23L27/60 A61K8/06 A61K8/37 A61Q19/00 C07C69/66 C07C69/67 C07C69/675 C07F9/02 C07F9/09 C07H13/04 C07H13/06 C07H15/04 C07H3/02 C07H3/04 C09F5/08 C11D1/66 C11D1/74 C11D1/94 C11D3/20 C11D3/22 C11D3/36 (Advanced/Invention);
A21D2/00 A23C11/00 A23D7/00 A23D7/005 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23L1/03 A23L1/24 A23L1/308 A23L1/36 A61K8/04 A61K8/30 A61Q19/00 C07C69/00 C07F9/00 C07H13/00 C07H15/00 C07H3/00 C09F5/00 C11D1/66 C11D1/74 C11D1/88 C11D3/20 C11D3/22 C11D3/36 (Core/Invention)

International (IPC 1-7): A21D2/16 A23D3/02 A23D5/00 A23J7/00 A23L1/035 A23L1/24 A23L1/34 B01F17/52 C07C69/66 C07C69/67 C07C69/675 C07F9/02 C07F9/09 C07F9/10 C07H13/04 C07H13/06 C07H3/02 C07H3/04 C08G63/06 C09F5/08 C11C3/00 C11C3/02 C11D1/00 C11D1/74 C11D1/94

CPC: Y10S426/804 A23L25/10 A23L29/10 A23L33/26 C11D3/362 A23C11/06 A23D7/011 A23D7/013 A23D9/013 A23G1/32 A23G3/36 A23G9/32 A61K8/06 A61K8/062 A61K8/375 A61Q19/00 C07H13/06 C11D1/662 C11D1/667 C11D3/2093 C11D3/221

European: 124B69/66A A23C11/06 A23D7/01N A23D7/01S A23D9/013 A23G1/00 A23G1/00+D A23G1/32 A23G3/00 A23G3/00+D A23G3/36 A23G9/02 A23G9/02+D A23G9/32 A23L1/035 A23L1/308P A23L1/38 A61K7/48C4K4 A61K8/06 A61K8/06A A61K8/37C A61Q19/00 C07H13/06 C11D1/66B C11D1/66E C11D3/20F C11D3/22B C11D3/36C

US: 260/403 260/410.7 426/549 426/590 426/602 426/603 426/804 536/119 554/227 554/80

Family:

Publication number	Publication date	Application number	Application date
CA1178952 A1	19841204	CA19810371626	19810224
DE3171081 D1	19850801	DE19813171081	19810213
EP0034858 A2	19810902	EP19810200171	19810213
EP0034858 A3	19811125	EP19810200171	19810213
EP0034858 B1	19850626	EP19810200171	19810213
ES499750 A0	19820116	ES19810499750	19810224
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GR74039 B	19840606	GR19810164221	19810223
IE50964 B	19860820	IE19810000377	19810224
IE810377 L	19810825	IE19810000377	19810224
JP56166149 A2	19811221	JP19810026715	19810225
US4363763 A	19821214	US19800219718	19801224
US4469635 A	19840904	US19820370775	19820422

Priority:

CA19810371626 19810224 US19800124192 19800225 US19820370775 19820422
US19800219718 19801224

Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO A CORP OF OH ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; PETERSON DONALD J

Inventor(s): (std): DONARUDO JIYON PIITAASON ; DONARUDO JON PIITAASON ; PETERSON DONALD J ; PETERSON DONALD JOHN

Inventor(s): DONALD JOHN PETERSON

Agent(s): KIRBY EADES GALE BAKER

Designated states: BE DE FR GB IT NL SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
DE3171081 D1	19860717	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3171081 D1	19900208	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0034858 A2	19810902	LSPB	+	published / reissued	
EP0034858 A3	19820714	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19820511
EP0034858 B1	19850626	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0034858 B1	19850626	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19850626
EP0034858 B1	19860611	LSGT	+26N	NO OPPOSITION FILED	

EP0034858 B1	19870228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 19870228 YEAR OF FEE PAYMENT : 7
EP0034858 B1	19890213	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB LAPSED DATE : 19890213
EP0034858 B1	19890228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19890228
EP0034858 B1	19890831	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : THE PROCTER & GAMBLE CY EFFECTIVE DATE : 19890228
EP0034858 B1	19890901	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19890901
EP0034858 B1	19891016	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP
EP0034858 B1	19891025	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP
EP0034858 B1	19891027	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19891027
EP0034858 B1	19891101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE LAPSED DATE : 19891101
EP0034858 B1	19891222	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
ES8202350 A1	19820116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES8202350 A1	20020116	PEXP		Calculated Patent Term Expiry	
GR74039 B	19840606	LSGT	+	granted / extensions (spc, cpc, pte)	
GR74039 B	20010223	PEXP		Calculated Patent Term Expiry	
IE50964 B	19860820	LSGT	+	granted / extensions (spc, cpc, pte)	
IE50964 B	20010224	PEXP		Calculated Patent Term Expiry	
JP56166149 A2	19811221	LSPB	+	published / reissued	
US4363763 A	19821214	LSGT	+	granted / extensions (spc, cpc, pte)	
US4363763 A	19820421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY THE, CINCINNATI, OH. A C OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:PETERSON, DONALD J.; REEL/FRAME:003973/0843 EFFECTIVE DATE : 19801223
US4363763 A	19821214	LSGT	PAT1	Patented Case	
US4363763 A	19860610	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4363763 A	19900608	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4363763 A	19940531	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4469635 A	19840904	LSGT	+	granted / extensions (spc, cpc, pte)	
US4469635 A	19840706	LSGT	PAT1	Patented Case	

US4469635 A	19880222	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4469635 A	19910930	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4469635 A	19960220	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

28) Family number: 23393874 (US2004052920A)

Title: OIL/FAT COMPOSITION

Abstract: Source: US2004052920A [EN] Abstract Provided is an oil/fat composition comprising 60 to 100 weight percent of a diglyceride wherein the diglyceride has, as the fatty acid constituent thereof, 15 to 90 weight percent of an omega 3-unsaturated fatty acid having less than 20 carbon atoms and a cis omega 3-unsaturated fatty acid/(cis omega 6-unsaturated fatty acid+saturated fatty acid+trans unsaturated fatty acid) at a weight ratio of 1 to 6. The composition is excellent in visceral fat burning property, body fat burning property and stability against autoxidation.

Classifications:

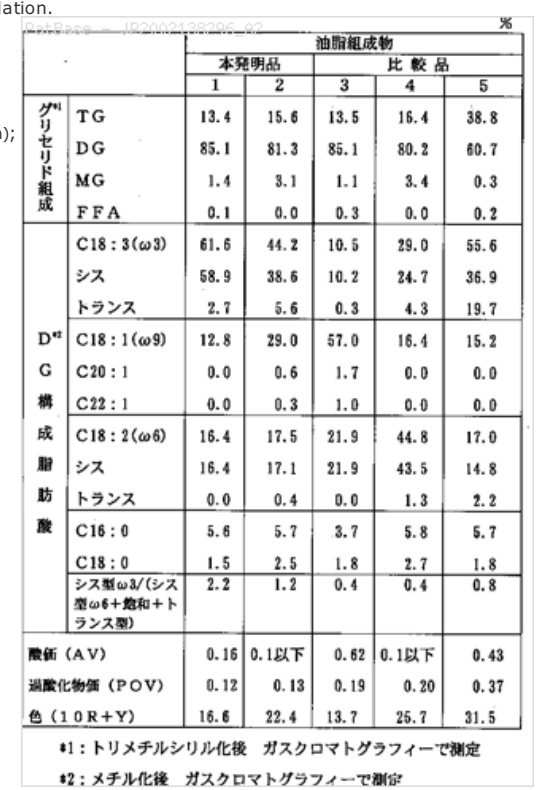
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23D7/01 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G3/00 A23G3/34 A23G3/40 A23K1/16 A23L1/24 A23L1/29 A23L1/30 A61K31/19 A61K31/20 A61K31/25 A61K31/575 A61P3/06 A61P35/00 A61P9/10 C11B5/00 C11C1/04 C11C3/00 C11C3/02 C11C3/06 (Advanced/Invention); A23L1/24 (Advanced/Non-invention);
A21D13/00 A21D2/00 A23D7/005 A23D7/015 A23D9/00 A23D9/007 A23G3/00 A23G3/34 A23K1/16 A23L1/24 A23L1/29 A23L1/30 A61K31/185 A61K31/21 A61K31/575 A61P3/00 A61P35/00 A61P9/00 C11B5/00 C11C1/00 C11C3/00 (Core/Invention); A23L1/24 (Core/Non-invention)

International (IPC 1-7): A21D13/00 A21D13/08 A21D2/16 A23D7/00 A23D9/00 A23D9/007 A23D9/013 A23G3/00 A23K1/16 A23L1/24 A23L1/30 A61K31/19 A61K31/20 A61K31/25 A61K31/575 A61P3/06 A61P35/00 A61P9/10 C11B5/00 C11C3/00

CPC: A23K20/158 A23G3/40 A21D2/16 A23D7/011 A23D7/013 A23D7/015 A23D9/013 A23G3/346 A23G2200/08 A23V2002/00 C11B5/0092 C11C1/04 C11C3/02 C11C3/06 A23L27/60 A23L33/11 A23L33/115 A23L33/12 A23L33/40

European: A21D2/16 A23D7/015 A23D7/01N A23D7/01S A23D9/013 A23G3/00 A23G3/00+D8 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23K1/16I A23L1/24 A23L1/29F A23L1/30B2 A23L1/30C A23L1/30C2 C11B5/00S C11C1/04 C11C3/02 C11C3/06 K23G200/08 K23V2/00

US: 424/439 426/601 426/601P



		油脂組成物				
		本発明品		比較品		
		1	2	3	4	5
グリセリド組成	TG	13.4	15.6	13.5	16.4	38.8
	DG	85.1	81.3	85.1	80.2	60.7
	MG	1.4	3.1	1.1	3.4	0.3
	FFA	0.1	0.0	0.3	0.0	0.2
DAG構成脂肪酸	C18:3(ω3)	61.6	44.2	10.5	29.0	55.6
	シス	58.9	38.6	10.2	24.7	36.9
	トランス	2.7	5.6	0.3	4.3	19.7
	C18:1(ω9)	12.8	29.0	57.0	16.4	15.2
	C20:1	0.0	0.6	1.7	0.0	0.0
	C22:1	0.0	0.3	1.0	0.0	0.0
	C18:2(ω6)	16.4	17.5	21.9	44.8	17.0
	シス	16.4	17.1	21.9	43.5	14.8
	トランス	0.0	0.4	0.0	1.3	2.2
	C16:0	5.6	5.7	3.7	5.8	5.7
	C18:0	1.5	2.5	1.8	2.7	1.8
	シス型ω3/(シス型ω6+飽和+トランス型)	2.2	1.2	0.4	0.4	0.8
酸価(AV)		0.16	0.1以下	0.62	0.1以下	0.43
過酸化物価(POV)		0.12	0.13	0.19	0.20	0.37
色(10R+Y)		16.6	22.4	13.7	25.7	31.5

*1：トリメチルシリル化後　ガスクロマトグラフィーで測定

*2：メチル化後　ガスクロマトグラフィーで測定

Family:

Publication number	Publication date	Application number	Application date
BRPI0113105 A	20030708	BR2001PI13105	20010807
CA2418350 AA	20030205	CA20012418350	20010807
CA2418350 C	20100119	CA20012418350	20010807
CN1236683 C	20060118	CN20018016699	20010807
CN1468061 A	20040114	CN20018016699	20010807
DE60143753 D1	20110210	DE20016043753	20010807
EP1315424 A2	20030604	EP20010954487	20010807
EP1315424 B1	20101229	EP20010954487	20010807
JP2002138296 A2	20020514	JP20010239179	20010807
JP4031218 B2	20080109	JP20010239179	20010807
US2004052920 AA	20040318	US20030343748	20030206
US7090886 BB	20060815	US20010343748	20010807
WO0211552 A2	20020214	WO2001JP06777	20010807
WO0211552 A3	20020418	WO2001JP06777	20010807

Priority:

JP20000239573 20000808 JP20010239179 20010807 WO2001JP06777 20010807

Probable Assignee: ZF FRIEDRICHSHAFEN AG

Assignee(s): (std): HASE TADASHI ; KAO CORP ; KATSURAGI YOSHIHISA ; KOIKE SHIN ; YASUMASU TAKESHI ; MURASE TAKATOSHI ; YASUKAWA TAKUJI ; TAKEI AKIRA

Assignee(s): ZF FRIEDRICHSHAFEN AG

Inventor(s): (std): KOIKE MAKOTO ; KOIKE S ; KOIKE SHIN ; MURASE T ; MURASE TAKATOSHI ; SHIN KOIKE ; TADASHI KATSURAGI YOSHIHISA TA ; TAKATOSHI MURASE ; TAKEI AKIRA ; TAKESHI YASUMASU ; YASUKAWA TAKUJI ; YASUMASU T ; YASUMASU TAKESHI ; YOSHIHISA KATSURAGI ; HASE T ; HASE TADASHI ; KATSURAGI Y ; KATSURAGI YOSHIHISA ; TADASHI HASE ; AKIRA TAKEI

Inventor(s): MURASE T KAO CORPORATION RESEARCH LABORATORIES ; KOIKE S KAO CORPORATION RESEARCH LABORATORIES ; KATSURAGI Y KAO CORP RESEARCH LABORATORIES ; HASE T KAO CORPORATION RESEARCH LABORATORIES ; KATSURAGI YOSHIHISA TAKEI AKIRA HASE TADASHI ; YASUMASU T KAO CORPORATION RESEARCH LABORATORIES ; TAKEI AKIRA KAO CORPORATION RESEARCH LABORATORIES

Agent(s): GOWLING LAFLEUR HENDERSON LLP; HOFFMANN EITLE; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: BR CA CN DE FR GB US

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BRPI0113105 A	20030708	LSPB	+	published / reissued	
BRPI0113105 A	20160607	LSES	B07D	TECHNICAL EXAMINATION (OPINION) RELATED TO ARTICLE 229 OF INDUSTRIAL PROPERTY LAW	
BRPI0113105 A	20180206	LSGT	B09A	DECISION: INTENTION TO GRANT	
CA2418350 AA	20030205	LSPB	+	published / reissued	
CA2418350 AA	20060705	LSES	+EEER	EXAMINATION REQUEST	
CA2418350 C	20100119	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2418350 C	20210807	PEXP		Calculated Patent Term Expiry	
CN1236683 C	20060118	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1236683 C	20060118	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1236683 C	20210807	PEXP		Calculated Patent Term Expiry	
CN1468061 A	20040114	LSPB	+	published / reissued	
CN1468061 A	20040114	LSPB	+C06	PUBLICATION	
EP1315424 A2	20030604	LSPB	+	published / reissued	
EP1315424 A2	20030604	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030206
EP1315424 A2	20061220	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20061117
EP1315424 A2	20070718	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20061117
EP1315424 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160802 YEAR OF FEE PAYMENT : 16
EP1315424 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160803 YEAR OF FEE PAYMENT : 16
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EP1315424 B1	20101229	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1315424 B1	20110210	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60143753 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110210
EP1315424 B1	20111207	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20110930
EP1315424 B1	20120126	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 60143753 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110930
EP1315424 B1	20160712	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 16
EP1315424 B1	20170714	LSFE	REG	REFERENCE TO A	REF COUNTRY CODE : FR

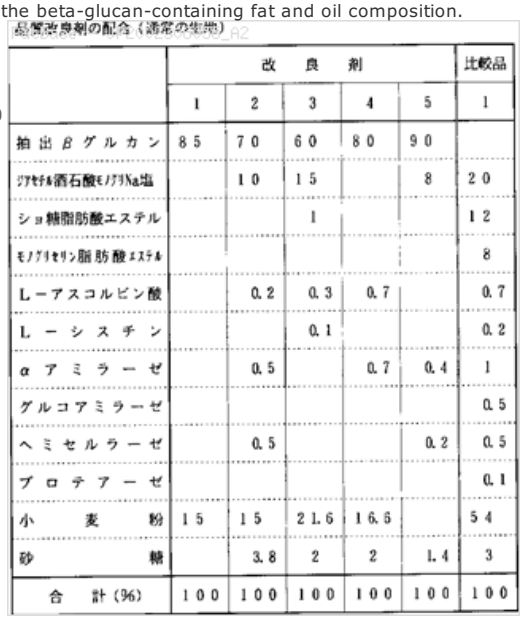
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EP1315424 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170802 YEAR OF FEE PAYMENT : 17
EP1315424 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170714 YEAR OF FEE PAYMENT : 17
EP1315424 B1	20210807	PEXP		Calculated Patent Term Expiry	
JP2002138296 A2	20020514	LSPB	+	published / reissued	
JP4031218 B2	20080109	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4031218 B2	20050916	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050915
JP4031218 B2	20070725	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20070724
JP4031218 B2	20070921	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070920
JP4031218 B2	20071011	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP4031218 B2	20071017	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20071016
JP4031218 B2	20071018	LSGT	+A01	特許査定書 Decision of patent grant	
JP4031218 B2	20071023	LSFE	R100	特許料納付書 Patent fee payment form	
JP4031218 B2	20071025	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20071018
JP4031218 B2	20071026	LSGT	R151	特許登録通知書 (一括) Patent registration notice (collective)	
JP4031218 B2	20071029	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4031218 B2	20100916	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20100921	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4031218 B2	20110915	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20110920	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4031218 B2	20120913	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20120918	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP4031218 B2	20130912	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20130917	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250

JP4031218 B2	20140911	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20140916	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4031218 B2	20150917	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20150929	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4031218 B2	20160915	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20160920	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4031218 B2	20170914	LSFE	R20	特許料納付書 Patent fee payment form	
JP4031218 B2	20170919	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4031218 B2	20210807	PEXP		Calculated Patent Term Expiry	
US2004052920 AA	20040318	LSPB	+	published / reissued	
US2004052920 AA	20060324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZF FRIEDRICHSHAFEN AG, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SIEMER, HUBERT; MEYER, BURKHARD; REEL/FRAME:017377/0913 EFFECTIVE DATE : 20060303
US7090886 BB	20060815	LSGT	+	granted / extensions (spc, cpc, pte)	
US7090886 BB	20031003	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KAO CORPORATION, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KOIKE, SHIN; YASUMASU, TAKESHI; HASE, TADASHI; AND OTHERS; REEL/FRAME:014562/0066 EFFECTIVE DATE : 20030114
US7090886 BB	20060726	LSGT	PAT1	Patented Case	
US7090886 BB	20100114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7090886 BB	20140115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7090886 BB	20180201	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7090886 BB	20230618	PEXP		Calculated Patent Term Expiry (PTA 680 days)	
WO0211552 A2	20020214	LSPB	+	published / reissued	
WO0211552 A3	20030205	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2418350 COUNTRY OF REF DOCUMENT : CA
WO0211552 A3	20030206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10343748 COUNTRY OF REF DOCUMENT : US
WO0211552 A3	20030206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001954487 COUNTRY OF REF DOCUMENT : EP
WO0211552 A3	20030401	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 018166997 COUNTRY OF REF DOCUMENT : CN
WO0211552 A3	20030604	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001954487 COUNTRY OF REF DOCUMENT : EP

29) Family number: 23897812 (US2003165604A)

Title: PRODUCTS CONTAINING $G(B)-GLUCAN

Abstract: Source: US2003165604A [EN] A beta-glucan-containing fat and oil composition characterized by containing beta-glucans extracted from a gramineous plant; and foods, fat and oil emulsified compositions, bakery products, confectionery products, foods or drugs having a prophylactic effect for a habitual disease, processed rice, wheat, corn or soybean products, liquid foods, and processed foods mainly comprising starch which contain the beta-glucan-containing fat and oil composition.



品質改良剤の配合（通常の生地） A2

	改良剤					比較品
	1	2	3	4	5	1
抽出βグルカン	85	70	60	80	90	
ジアセチル酒石酸モノグリNa塩		10	15		8	20
ショ糖脂肪酸エステル			1			12
モノグリセリン脂肪酸エステル						8
Lーアスコルビン酸		0.2	0.3	0.7		0.7
Lーシステイン			0.1			0.2
αアミラーゼ		0.5		0.7	0.4	1
グルコアミラーゼ						0.5
ヘミセルラーゼ		0.5			0.2	0.5
プロテアーゼ						0.1
小麦粉	15	15	21.6	16.5		54
砂糖		3.8	2	2	1.4	3
合計(%)	100	100	100	100	100	100

Classifications:
International (IPC 8-9): A21D13/00 A21D13/02 A21D13/08 A21D2/16 A21D2/18 A21D2/22 A21D2/26 A21D2/36 A21D2/38 A21D6/00 A23C11/04 A23C9/13 A23C9/152 A23D7/00 A23D7/005 A23D7/02 A23D9/007 A23F3/16 A23F5/24 A23G1/00 A23G1/30 A23G1/36 A23G3/00 A23G3/34 A23G3/40 A23G3/48 A23G3/50 A23G9/32 A23G9/52 A23L1/00 A23L1/03 A23L1/035 A23L1/052 A23L1/09 A23L1/10 A23L1/16 A23L1/18 A23L1/182 A23L1/19 A23L1/20 A23L1/24 A23L1/30 A23L1/305 A23L1/39 A23L1/40 A23L1/48 A23L2/02 A23L2/38 A23L2/52 A23L27/60 A23L29/10 A61K31/715 A61K31/716 A61K36/899 A61P1/14 A61P3/06 A61P3/10 C11B5/00 C11C3/00 C12G3/04 (Advanced/Invention); A23L1/24 (Advanced/Non-invention); A21D13/00 A21D2/00 A21D6/00 A23C11/00 A23C9/13 A23C9/152 A23D7/00 A23D7/005 A23D7/02 A23D9/007 A23F3/00 A23F5/24 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/00 A23L1/03 A23L1/052 A23L1/09 A23L1/10 A23L1/16 A23L1/18 A23L1/182 A23L1/19 A23L1/20 A23L1/24 A23L1/30 A23L1/305 A23L1/39 A23L1/48 A23L2/02 A23L2/38 A23L2/52 A61K31/715 A61K31/716 A61K36/88 A61P1/00 A61P3/00 C11B5/00 C11C3/00 C12G3/00 (Core/Invention); A23L1/24 (Core/Non-invention)
International (IPC 1-7): A21D10/00 A21D13/00 A21D13/08 A21D2/16 A21D2/18 A21D2/22 A21D2/26 A21D2/36 A21D2/38 A21D6/00 A23C11/04 A23C9/13 A23C9/152 A23D7/00 A23D7/02 A23F3/16 A23F5/24 A23G1/00 A23G3/00 A23L1/03 A23L1/035 A23L1/052 A23L1/09 A23L1/10 A23L1/16 A23L1/18 A23L1/19 A23L1/20 A23L1/24 A23L1/30 A23L1/39 A23L1/40 A23L1/48 A23L10/35 A23L2/02 A23L2/38 A23L2/52 A61K31/715 A61K31/716 A61K35/78 A61P1/14 A61P3/06 A61P3/10 C11B5/00 C11C3/00 C12G3/04
CPC: A23L7/115 A23L7/183 A23L7/196 A23L9/22 A23L23/00 A23L27/60 A23L33/105 A23L33/175 A23P20/12 A23P30/40 A23G1/36 A21D2/16 A21D2/165 A21D2/186 A21D2/36 A21D13/02 A23C11/04 A23D7/0053 A23D7/0056 A23D9/007 A23G3/346 A23G3/40 A23G9/327 A23G9/52 A23G2200/08 A23V2002/00 A21D13/80
European: A21D13/02 A21D13/08 A21D2/16 A21D2/16D A21D2/18E A21D2/36 A23C11/04 A23D7/005N A23D7/005S A23D9/007 A23G1/00 A23G1/00+D8 A23G1/00K A23G1/00K+D8 A23G1/36 A23G3/00 A23G3/00+D8 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23G9/02 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/52 A23L1/00P16 A23L1/00P8B4 A23L1/10E A23L1/182 A23L1/18C6 A23L1/19B A23L1/24 A23L1/305A A23L1/30B A23L1/39 K23G200/08 K23V2/00
US: 426/549 426/549P

Family:

Publication number	Publication date	Application number	Application date
AU2002233639 AA	20020828	AU20020233639	20020214
AU2002233639 BB	20070301	AU20020233639	20020214
CN1457357 A	20031119	CN20028000308	20020214
DE60219600 D1	20070531	DE20026019600	20020214
DE60219600 T2	20071220	DE20026019600T	20020214
DK1361264 T3	20070625	DK20020700585T	20020214
EP1361264 A1	20031112	EP20020700585	20020214
EP1361264 A4	20050316	EP20020700585	20020214
EP1361264 B1	20070418	EP20020700585	20020214
JP2002241784 A2	20020828	JP20010037997	20010215
JP2002306056 A2	20021022	JP20010111089	20010410
JP2002306064 A2	20021022	JP20010119207	20010418
JP2002306094 A2	20021022	JP20010119345	20010418
JP2002306124 A2	20021022	JP20010119146	20010418
JP4688335 B2	20110525	JP20010111089	20010410
JP4698038 B2	20110608	JP20010037997	20010215
NZ521894 A	20060831	NZ20020521894	20020214
US2003165604 AA	20030904	US20020257247	20021010
WO02064714 A1	20020822	WO2002JP01264	20020214

Priority:

JP20010037997 20010215 JP20010111089 20010410 JP20010779207 20010418
JP20010119207 20010418 JP20010119146 20010418 JP20010119345 20010418
WO2002JP01264 20020214

Probable Assignee: ADEKA CORP

Assignee(s): (std): ASAHI DENKA KOGYO KK ; TSUBAKI KAZUFUMI ; SUGIYAMA HIROMU ; SHOJI YOSHIKAZU ; ADEKA CORP

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; HATORI OSAMU

Designated states: AT AU BE CH CN CY DE DK ES FI FR GB GR IE IT LU MC NL NZ PT SE TR US

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2002233639 AA	20020828	LSPB	+	published / reissued	
AU2002233639 BB	20070301	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2002233639 BB	20060824	LSAS	TC	CHANGE OF APPLICANT'S NAME (SEC. 104)	PARTYTYPE : OWNER OWNER : ADEKA CORPORATION OLDPARTY : FORMER NAME: ASAHI DENKA KOGYO KABUSHIKI KAISHA
AU2002233639 BB	20080911	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
AU2002233639 BB	20220214	PEXP		Calculated Patent Term Expiry	
CN1457357 A	20031119	LSPB	+	published / reissued	
CN1457357 A	20031119	LSPB	+C06	PUBLICATION	
CN1457357 A	20090225	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
DE60219600 D1	20080508	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60219600 T2	20071220	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60219600 T2	20220214	PEXP		Calculated Patent Term Expiry	
DK1361264 T3	20070625	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1361264 T3	20220214	PEXP		Calculated Patent Term Expiry	
EP1361264 A1	20031112	LSPB	+	published / reissued	
EP1361264 A1	20031112	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20021217
EP1361264 A1	20040630	LSRE	RTI1	TITLE (CORRECTION)	TEXT : PRODUCTS CONTAINING $G(B)-GLUCAN
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 21D 13/08 A
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 21D 2/18 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 21D 2/16 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23L 1/03 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23L 1/035 B
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EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23L 1/48 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23L 1/39 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION	CLASSIFICATIONSCHEME : IPC

				(CORRECTION)	CLASSIFICATIONSYMBOL : 7A 23L 1/20 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23L 1/052 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23D 7/00 B
EP1361264 A1	20050309	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 61K 31/716 B
EP1361264 A1	20050316	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20050131
EP1361264 A1	20050720	LSRE	RTI1	TITLE (CORRECTION)	TEXT : PRODUCTS CONTAINING G(B)-GLUCAN
EP1361264 A1	20061011	LSRE	RTI1	TITLE (CORRECTION)	TEXT : PRODUCTS CONTAINING G(B)-GLUCAN
EP1361264 A1	20061227	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : ADEKA CORPORATION
EP1361264 A1	20080326	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20080121
EP1361264 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20140110 YEAR OF FEE PAYMENT : 13
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EP1361264 A1	20150921	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20150228
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EP1361264 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150228
EP1361264 A1	20160218	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 15
EP1361264 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 15
EP1361264 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160223 YEAR OF FEE PAYMENT : 15
EP1361264 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160218 YEAR OF FEE PAYMENT : 15
EP1361264 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160217 YEAR OF FEE PAYMENT : 15
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EP1361264 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170217 YEAR OF FEE PAYMENT : 16
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EP1361264 A1	20170630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170221 YEAR OF FEE PAYMENT : 16
EP1361264 B1	20070418	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1361264 B1	20220214	PEXP		Calculated Patent Term Expiry	
JP2002241784 A2	20020828	LSPB	+	published / reissued	
JP2002241784 A2	20080116	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080115
JP2002241784 A2	20101215	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20101214
JP2002241784 A2	20110208	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110207
JP2002241784 A2	20110302	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20110301
JP2002241784 A2	20110310	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20110301
JP2002306056 A2	20021022	LSPB	+	published / reissued	
JP2002306056 A2	20080318	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080317
JP2002306056 A2	20100915	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100914
JP2002306056 A2	20101113	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20101112
JP2002306056 A2	20101201	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20101130
JP2002306056 A2	20110129	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110128
JP2002306056 A2	20110210	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2002306056 A2	20110216	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20110215
JP2002306056 A2	20110217	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2002306056 A2	20110224	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20110215

JP2002306056 A2	20110228	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2002306064 A2	20021022	LSPB	+	published / reissued	
JP2002306094 A2	20021022	LSPB	+	published / reissued	
JP2002306124 A2	20021022	LSPB	+	published / reissued	
JP4688335 B2	20110525	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4688335 B2	20110222	LSFE	R100	特許料納付書 Patent fee payment form	
JP4688335 B2	20110225	LSGT	R151	特許登録通知書 (一括) Patent registration notice (collective)	
JP4688335 B2	20140109	LSFE	R20	特許料納付書 Patent fee payment form	
JP4688335 B2	20140114	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4688335 B2	20150115	LSFE	R20	特許料納付書 Patent fee payment form	
JP4688335 B2	20150120	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4688335 B2	20160121	LSFE	R20	特許料納付書 Patent fee payment form	
JP4688335 B2	20160329	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4688335 B2	20170105	LSFE	R20	特許料納付書 Patent fee payment form	
JP4688335 B2	20170110	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4688335 B2	20171214	LSFE	R20	特許料納付書 Patent fee payment form	
JP4688335 B2	20210410	PEXP		Calculated Patent Term Expiry	
JP4698038 B2	20110608	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4698038 B2	20110303	LSGT	+A01	特許査定書 Decision of patent grant	
JP4698038 B2	20110308	LSFE	R100	特許料納付書 Patent fee payment form	
JP4698038 B2	20110311	LSGT	R151	特許登録通知書 (一括) Patent registration notice (collective)	
JP4698038 B2	20140109	LSFE	R20	特許料納付書 Patent fee payment form	
JP4698038 B2	20140114	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4698038 B2	20150115	LSFE	R20	特許料納付書 Patent fee payment form	
JP4698038 B2	20150120	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4698038 B2	20160121	LSFE	R20	特許料納付書 Patent fee payment form	
JP4698038 B2	20160329	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4698038 B2	20170105	LSFE	R20	特許料納付書 Patent fee payment form	
JP4698038 B2	20170110	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4698038 B2	20171214	LSFE	R20	特許料納付書 Patent fee payment form	

JP4698038 B2	20210215	PEXP		Calculated Patent Term Expiry	
NZ521894 A	20060831	LSPB	+	published / reissued	
NZ521894 A	20070126	LSGT	+PSEA	PATENT SEALED	
NZ521894 A	20070330	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ521894 A	20120224	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ521894 A	20150130	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 14 FEB 2016 BY CPA GLOBAL EFFECTIVE DATE : 20150103
NZ521894 A	20160129	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 14 FEB 2017 BY DENNEMEYER + CO EFFECTIVE DATE : 20160121
NZ521894 A	20170127	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 14 FEB 2018 BY DENNEMEYER + CO. EFFECTIVE DATE : 20170120
NZ521894 A	20180126	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 14 FEB 2019 BY DENNEMEYER + CO EFFECTIVE DATE : 20180122
US2003165604 AA	20030904	LSPB	+	published / reissued	
US2003165604 AA	20021010	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ASAHI DENKA KOGYO KABUSHIKI KAISHA, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TSUBAKI, KAZUFUMI; SUGIYAMA, HIROMU; SHOJI, YOSHIKAZU; REEL/FRAME:013976/0849 EFFECTIVE DATE : 20020918
US2003165604 AA	20070719	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADEKA CORPORATION, JAPAN OLDPARTY : CHANGE OF NAME; ASSIGNOR:ASAHI DENKA CO., LTD.; REEL/FRAME:019580/0097 EFFECTIVE DATE : 20060501
US2003165604 AA	20071113	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO02064714 A1	20020822	LSPB	+	published / reissued	
WO02064714 A1	20021010	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 521894 COUNTRY OF REF DOCUMENT : NZ
WO02064714 A1	20021010	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10257247 COUNTRY OF REF DOCUMENT : US
WO02064714 A1	20021014	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002233639 COUNTRY OF REF DOCUMENT : AU
WO02064714 A1	20021015	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 02800308X COUNTRY OF REF DOCUMENT : CN
WO02064714 A1	20021022	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002700585 COUNTRY OF REF DOCUMENT : EP
WO02064714 A1	20031112	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002700585 COUNTRY OF REF DOCUMENT : EP
WO02064714 A1	20070418	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002700585 COUNTRY OF REF DOCUMENT : EP

30) Family number: 8848625 (US5106644A)

Title: FOOD PRODUCTS CONTAINING REDUCED CALORIE, FIBER CONTAINING FAT SUBSTITUTE

Abstract: Source: US5106644A [EN] Reduced calorie, fiber containing food products containing a fat substitute are disclosed. The fat substitute is made of a fat or oil and polymeric liquid crystal prepared from a polysaccharide and a solvent, preferably water. This fat substitute can be used to replace fat in a variety of food products.

Classifications:
International (IPC 8-9): A21D2/16 A21D2/18 A23D7/005 A23D7/01 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G3/34 A23L1/05 A23L1/0526 A23L1/0532 A23L1/0534 A23L1/054 A23L1/30 A23L1/308 A23L1/38 (Advanced/Invention);
A21D2/00 A23D7/005 A23D7/015 A23D9/007 A23G3/34 A23L1/05 A23L1/052 A23L1/30 A23L1/308 A23L1/36 (Core/Invention)
International (IPC 1-7): A21D10/00 A21D2/16 A21D2/18 A23D10/00 A23D7/00 A23D9/00 A23D9/007 A23G3/00 A23L1/05 A23L1/0522 A23L1/0526 A23L1/0534 A23L1/054 A23L1/308 A23L1/38
CPC: A23L25/10 A23L29/238 A23L29/256 A23L29/262 A23L29/27 A23L33/115 A23L33/21 A23G3/346 A21D2/18 A23D7/0056 A23D7/013 A23D7/015 A23D9/007 A23D9/013 A23G2200/06 A23G2200/08 A23G2200/14
European: A21D2/18 A23D7/005S A23D7/015 A23D7/01S A23D9/007 A23D9/013 A23G3/00K A23G3/00K+D14 A23G3/00K+D6 A23G3/00K+D8 A23G3/34E A23L1/0526 A23L1/0532 A23L1/0534 A23L1/054B A23L1/308 A23L1/30C A23L1/38 K23G200/06 K23G200/08 K23G200/14
US: 426/554 426/603 426/611

表 I

多糖	30℃の溶媒	ほぼ単相液晶濃度範囲 全液晶重量に対する 多糖wt% - 範囲
カルボキシメチル セルロースナトリウム (D.S.=1.74)[a]	水	40-60% (a)
カルボキシメチルセルロース ナトリウム (D.S.=1.74)[a]	2%水性NaCl	50% (a)
エチルセルロース (ハーキュリーズ社, T-10,D.P.=110,D.S.=2.5+) [a]	CH_3 COOH	50%(40-60)(a)
ヒドロキシプロピルセルロース (クルセルG, ハーキュリーズ社,D.P.=750)[a]	水	30-50% (a) 47-70(*)
*ヒドロキシプロピル セルロース (クルセルE,M.S.=3.0)	水	47-70(*) 41-60% (b)

[a] １９７７年２月９日付で公開されたManuel.Panar及びOswin Burr Willcoxのフランス特許公開第２，３４０，３４４号明細書から得られる値

*G.Conio et al.,Macromolecules,16 (8),1264 (1983)から得られる値

[b] R.S.Werbourwyji 及びD.G.Gray,Macromolecules,13, 69 (1980)

Family:

Publication number	Publication date	Application number	Application date
CA2081017 AA	19921020	CA19912081017	19910422
CA2081017 C	19971028	CA19912081017	19910422
DE69117753 D1	19960411	DE19916017753	19910422
DE69117753 T2	19961002	DE19916017753T	19910422
EP0531346 A1	19930317	EP19910909640	19910422
EP0531346 A4	19930407	EP19910909640	19910422
EP0531346 B1	19960306	EP19910909640	19910422
JP3124291 B2	20010115	JP19910509139T	19910422
JP5508314 T2	19931125	JP19910509139T	19910422
US5106644 A	19920421	US19900529027	19900525
WO9118522 A1	19911212	WO1991US02683	19910422

Priority:
US19900529027 19900525 WO1991US02683 19910422

Probable Assignee: JM SMUCKER CO
Assignee(s): (std): PROCTER AND GAMBLE
Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE OHIO BRANDS CO ; SMUCKER FRUIT PROCESSING CO ; PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY ; EL NOKALY MAGDA ; JM SMUCKER CO
Inventor(s): (std): EL NOKALI MAGDA ; EL NOKALY MAGDA
Inventor(s): EL NOKALI MAGDA HAMILTON OH 45013 US
Agent(s): SIM AND MCBURNEY
Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2081017 AA	19921020	LSPB	+	published / reissued	

CA2081017 AA	19921020	LSES	+EEER	EXAMINATION REQUEST	
CA2081017 C	19971028	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2081017 C	20040422	LSLE	-MKLA	LAPSED	
CA2081017 C	20110422	PEXP		Calculated Patent Term Expiry	
DE69117753 D1	19970403	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69117753 D1	20030227	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : THE PROCTER & GAMBLE OHIO BRANDS COMPANY, CINCINNA
DE69117753 D1	20040212	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69117753 T2	19961002	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69117753 T2	20110422	PEXP		Calculated Patent Term Expiry	
EP0531346 A1	19930317	LSPB	+	published / reissued	
EP0531346 A1	19930317	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19921209
EP0531346 A4	19930407	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19930216
EP0531346 A4	19940928	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19940812
EP0531346 B1	19960306	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0531346 B1	19970226	LSGT	+26N	NO OPPOSITION FILED	
EP0531346 B1	20020315	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20020315 YEAR OF FEE PAYMENT : 12
EP0531346 B1	20020325	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20020325 YEAR OF FEE PAYMENT : 12
EP0531346 B1	20020404	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20020404 YEAR OF FEE PAYMENT : 12
EP0531346 B1	20020430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20020430 YEAR OF FEE PAYMENT : 12
EP0531346 B1	20020618	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20020618 YEAR OF FEE PAYMENT : 12
EP0531346 B1	20030422	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030422
EP0531346 B1	20030430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030430
EP0531346 B1	20030430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030430
EP0531346 B1	20031101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20031101
EP0531346 B1	20031101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DUE FEES LAPSED DATE : 20031101
EP0531346 B1	20031201	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20031101
EP0531346 B1	20031210	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20030422
EP0531346 B1	20031215	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0531346 B1	20031231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20031231
EP0531346 B1	20040130	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0531346 B1	20110422	PEXP		Calculated Patent Term Expiry	
JP3124291 B2	20010115	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3124291 B2	20031027	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3124291 B2	20110422	PEXP		Calculated Patent Term Expiry	
JP5508314 T2	19931125	LSPB	+	published / reissued	
US5106644 A	19920421	LSGT	+	granted / extensions (spc, cpc, pte)	
US5106644 A	19901018	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY, THE, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:EL-NOKALY, MAGDA; REEL/FRAME:005475/0149 EFFECTIVE DATE : 19900525
US5106644 A	19920409	LSGT	PAT1	Patented Case	
US5106644 A	19950926	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5106644 A	19991004	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5106644 A	20030515	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE OHIO BRANDS CO, OHIO OLDPARTY : MERGER; ASSIGNOR:PROCTER & GAMBLE COMPANY, THE; REEL/FRAME:014051/0040 EFFECTIVE DATE : 20020601
US5106644 A	20030519	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE OHIO BRANDS CO, THE, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PROCTER & GAMBLE COMPANY, THE; REEL/FRAME:014051/0036 EFFECTIVE DATE : 20030403
US5106644 A	20030602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SMUCKER FRUIT PROCESSING COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:J.M. SMUCKER COMPANY, THE; REEL/FRAME:014108/0880 EFFECTIVE DATE : 20021201
US5106644 A	20040410	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5106644 A	20060831	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : J.M. SMUCKER

					COMPANY, THE, OHIO OLDPARTY : MERGER; ASSIGNOR:PROCTER & GAMBLE OHIO BRANDS COMPANY; REEL/FRAME:018279/0956 EFFECTIVE DATE : 20020601
US5106644 A	20091211	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE J.M. SMUCKER COMPANY, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SMUCKER FRUIT PROCESSING COMPANY; REEL/FRAME:023639/0001 EFFECTIVE DATE : 20091112
US5106644 A	20100525	PEXP		Calculated Patent Term Expiry	
WO9118522 A1	19911212	LSPB	+	published / reissued	
WO9118522 A1	19921020	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2081017 COUNTRY OF REF DOCUMENT : CA
WO9118522 A1	19921209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1991909640 COUNTRY OF REF DOCUMENT : EP
WO9118522 A1	19930317	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1991909640 COUNTRY OF REF DOCUMENT : EP
WO9118522 A1	19960306	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1991909640 COUNTRY OF REF DOCUMENT : EP

31) Family number: 9035405 (EP0571219A2)

Title: ESTERIFIED PROPOXYLATED GLYCERIN FAT SUBSTITUTE COMPOSITIONS RESISTANT TO GASTROINTESTINAL SIDE EFFECTS.

Abstract: Source: EP0571219A2 [EN] Esterified propoxylated glycerin compositions containing acyl groups derived from C20-C24 saturated linear fatty acids are useful as fat substitutes in the preparation of reduced calorie food compositions. These fat substitutes, which may advantageously be used in combination with conventional triglyceride lipids or other fat substitutes such as sucrose polyester, have a reduced tendency to cause gastrointestinal side effects such as diarrhea or oil leakage and yet have acceptable organoleptic and fat-like properties.

Classifications:
International (IPC 8-9): A21D13/08 A21D2/16 A23D7/01 A23D9/007 A23D9/013 A23G3/34 A23L1/00 A23L1/30 A23L1/307 A23L1/38 A61K31/23 A61P1/00 A61P3/04 A61P3/06 C07C69/30 C07C69/52 C11C3/00 (Advanced/Invention);
A21D13/00 A21D2/00 A23D7/005 A23D9/007 A23G3/34 A23L1/00 A23L1/30 A23L1/307 A23L1/36 A61K31/21 A61P1/00 A61P3/00 C07C69/00 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D9/00 A23D9/00 A23L1/00 A23L1/29 A23L1/307 A23L1/308 A61K31/23 C07C69/52 C11C3/00
CPC: A23L25/10 A23L33/115 A23P20/12 C07C69/52 A21D2/16 A23D7/013 A23D9/013 A23G3/346 A23G2200/08 C07C69/30 A21D13/80
European: A21D13/08 A21D2/16 A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23L1/00P8B4 A23L1/30C A23L1/38 C07C69/30 C07C69/52 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AT151602 E	19970515	AT19930303951T	19930520
CA2096152 AA	19931121	CA19932096152	19930513
DE69309774 D1	19970522	DE19936009774	19930520
DE69309774 T2	19970731	DE19936009774T	19930520
EP0571219 A2	19931124	EP19930303951	19930520
EP0571219 A3	19940112	EP19930303951	19930520
EP0571219 B1	19970416	EP19930303951	19930520
ES2100460 T3	19970616	ES19930303951T	19930520
JP6098679 A2	19940412	JP19930138889	19930518

Priority:
CA19932096152 19930513 US19920886538 19920520

Probable Assignee: ARCO CHEM TECH
Assignee(s): (std): ARCO CHEM TECH
Assignee(s): ARCO CHEM TECHNOL LP ; ARCO CHEMICAL TECHNOLOGY L P ; ARCO CHEMICAL TECHNOLOGY L P GREENVILLE DEL US ; ARCO CHEMICAL TECHNOLOGY LP ; MASTEN LAWRENCE W
Inventor(s): (std): MASTEN LAWRENCE W ; ROORENSU DABURIYUU MATSUSUN
Agent(s): OSLER HOSKIN AND HARCOURT LLP
Designated states: AT BE CH DE ES FR GB IT LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT151602 E	19970515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT151602 E	19971015	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT151602 E	20030215	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT151602 E	20130520	PEXP		Calculated Patent Term Expiry	
CA2096152 AA	19931121	LSPB	+	published / reissued	
CA2096152 AA	20000504	LSES	+EEER	EXAMINATION REQUEST	
CA2096152 AA	20040513	LSLE	-FZDE	DEAD	
DE69309774 D1	19980514	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69309774 D1	20050317	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69309774 T2	19970731	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69309774 T2	20130520	PEXP		Calculated Patent Term Expiry	
EP0571219 A2	19931124	LSPB	+	published / reissued	
EP0571219 A3	19940406	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19940205

EP0571219 A3	19960424	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19960311
EP0571219 B1	19970416	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0571219 B1	19970430	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0571219 B1	19970616	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2100460 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0571219 B1	19980408	LSGT	+26N	NO OPPOSITION FILED	
EP0571219 B1	20010503	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20010503 YEAR OF FEE PAYMENT : 9
EP0571219 B1	20010504	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20010504 YEAR OF FEE PAYMENT : 9
EP0571219 B1	20010504	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20010504 YEAR OF FEE PAYMENT : 9
EP0571219 B1	20020520	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020520
EP0571219 B1	20020521	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020521
EP0571219 B1	20020531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020531
EP0571219 B1	20020531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020531
EP0571219 B1	20030107	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP
EP0571219 B1	20030115	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0571219 B1	20030513	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20030513 YEAR OF FEE PAYMENT : 11

EP0571219 B1	20030514	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20030514 YEAR OF FEE PAYMENT : 11
EP0571219 B1	20030520	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20030520 YEAR OF FEE PAYMENT : 11
EP0571219 B1	20030606	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20030606 YEAR OF FEE PAYMENT : 11
EP0571219 B1	20030613	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20030613 YEAR OF FEE PAYMENT : 11
EP0571219 B1	20030626	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20030626 YEAR OF FEE PAYMENT : 11
EP0571219 B1	20040520	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040520
EP0571219 B1	20040521	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040521
EP0571219 B1	20040531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040531
EP0571219 B1	20041130	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *ARCO CHEMICAL TECHNOLOGY L.P. EFFECTIVE DATE : 20040531
EP0571219 B1	20041201	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041201
EP0571219 B1	20041201	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041201
EP0571219 B1	20050112	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20040520
EP0571219 B1	20050131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050131
EP0571219 B1	20050201	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20041201
EP0571219 B1	20050304	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0571219 B1	20050520	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050520
EP0571219 B1	20050816	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20040521
EP0571219 B1	20130520	PEXP		Calculated Patent Term Expiry	
ES2100460 T3	19970616	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2100460 T3	19970616	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 571219 COUNTRY OF REF DOCUMENT : ES
ES2100460 T3	20130520	PEXP		Calculated Patent Term Expiry	
JP6098679 A2	19940412	LSPB	+	published / reissued	

32) Family number: 15105697 (US4880657A)

Title: SHORTENING COMPOSITIONS CONTAINING POLYOL POLYESTERS

Abstract: Source: US4880657A [EN] Disclosed are preferred shortenings made with polyol polyesters. The Solid Fat Content curve and penetration of the shortenings is adjusted to increase smoothness and decrease graininess. Also described are food compositions that have enhanced flavors from the addition of particular sucrose polyesters.

Classifications:

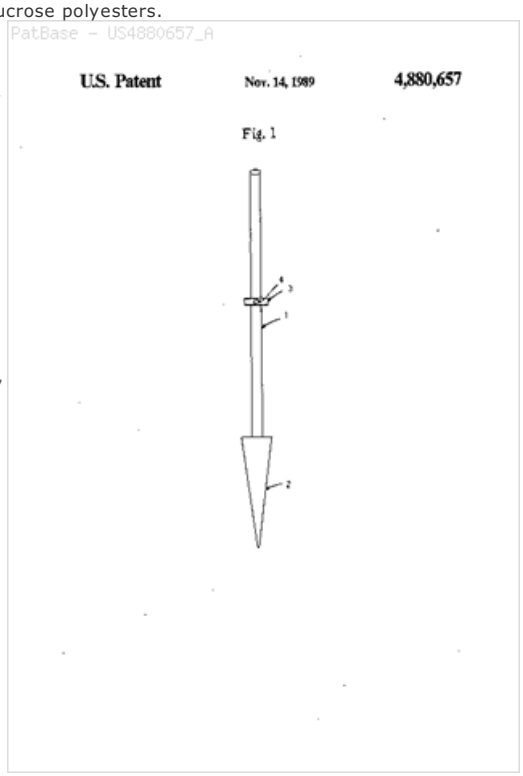
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A23D7/00 A23D9/00 A23D9/007 A23G1/30 A23G9/32 A23G9/44 A23G9/52 (Advanced/Non-invention);
A21D2/00 A23D7/00 A23D7/005 A23D7/015 A23D7/02 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23L1/03 A23L1/22 A23L1/226 A23L1/308 A23L2/00 (Core/Invention)

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European: A23D7/015 A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02 A23G9/02+D8 A23G9/02+H6 A23G9/02K A23G9/02K+D8 A23G9/32 A23G9/32G A23G9/34 A23G9/48 A23G9/52 A23L1/308P K23G200/08

US: 126/603 126/606 126/607 126/611 126/613 126/804 260/110 260/110.6 260/410 426/534 426/590 426/601 426/603 426/604 426/606 426/607 426/611 426/613 426/804 514/23 514/552 514/558 536/119 536/124 554/223 554/224 554/227



Family:

Publication number	Publication date	Application number	Application date
AT91386 E	19930715	AT19880200666T	19880429
AT99875 E	19940115	AT19880870080T	19880506
AT99876 E	19940115	AT19880870081T	19880506
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Priority:

CA19880565989 19880505 CA19880565990 19880505 EP19880870080 19880506
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US19880175004 19880412 US19890378552 19890711 US19890374430 19890630
US19890432251 19891106 US19880176712 19880415 US19870047367 19870506
US19880175406 19880413

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT91386 E	19930715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT91386 E	20080429	PEXP		Calculated Patent Term Expiry	
AT99875 E	19940115	LSGT	+	granted / extensions (spc, cpc, pte)	
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AT99875 E	20010215	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	

AT99875 E	20080506	PEXP		Calculated Patent Term Expiry
AT99876 E	19940115	LSGT	+	granted / extensions (spc, cpc, pte)
AT99876 E	20080506	PEXP		Calculated Patent Term Expiry
AU198815647 A1	19881110	LSPB	+	published / reissued
AU198815648 A1	19881110	LSPB	+	published / reissued
AU198815649 A1	19881110	LSPB	+	published / reissued
AU625572 B2	19920716	LSGT	+	granted / extensions (spc, cpc, pte)
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AU626127 B2	19920723	LSGT	+	granted / extensions (spc, cpc, pte)
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EP0290420 A3	19901114	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19900920
EP0290420 A3	19920408	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19920225
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EP0290420 B1	20031130	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : THE *PROCTER & GAMBLE CY EFFECTIVE DATE : 20030531
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EP0290420 B1	20040227	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
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EP0290420 B1	20080506	PEXP		Calculated Patent Term Expiry	
EP0290421 A2	19881109	LSPB	+	published / reissued	
EP0290421 A2	19891011	LSES	D17D	PUBLICATION OF THE DEFERRED SEARCH REPORT (DELETED)	
EP0290421 A3	19901114	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19900920
EP0290421 A3	19920408	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19920225

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ES2049266 T3	19940416	LSGT	+	granted / extensions (spc, cpc, pte)	
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ES2049266 T3	20080506	PEXP		Calculated Patent Term Expiry	
ES2056897 T3	19941016	LSGT	+	granted / extensions (spc, cpc, pte)	
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ES2056897 T3	20080429	PEXP		Calculated Patent Term Expiry	
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HK99196 A	19960614	LSGT	+	granted / extensions (spc, cpc, pte)	
HK99196 A	20041215	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	
HK99196 A	20160606	PEXP		Calculated Patent Term Expiry	
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				cpc, pte)	
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IE61359 B	20080505	PEXP		Calculated Patent Term Expiry	
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JP1039940 A2	19890210	LSPB	+	published / reissued	
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NZ224505 A	19910226	LSPB	+	published / reissued	
NZ224506 A	19910426	LSPB	+	published / reissued	
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PH25697 A	19910918	LSGT	+	granted / extensions (spc, cpc, pte)	
PH25697 A	20080918	PEXP		Calculated Patent Term Expiry	
PH27404 A	19930621	LSGT	+	granted / extensions (spc, cpc, pte)	
PH27404 A	20100621	PEXP		Calculated Patent Term Expiry	
US4880657 A	19891114	LSGT	+	granted / extensions (spc, cpc, pte)	
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					ASSIGNORS INTEREST.; ASSIGNORS:GUFFEY, TIMOTHY B.; ABE, SUSAN S.; TALKINGTON, SHERRY R.; AND OTHERS; REEL/FRAME:004883/0536 EFFECTIVE DATE : 19880408
US4880657 A	19880602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY, THE,OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GUFFEY, TIMOTHY B.; ABE, SUSAN S.; TALKINGTON, SHERRY R.; AND OTHERS; REEL/FRAME:004883/0536 EFFECTIVE DATE : 19880408
US4880657 A	19890920	LSGT	PAT1	Patented Case	
US4880657 A	19910416	LSRE	CC	CERTIFICATE OF CORRECTION	
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US4940601 A	19920421	LSRE	CC	CERTIFICATE OF CORRECTION	
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US4960602 A	19901002	LSGT	+	granted / extensions (spc, cpc, pte)	
US4960602 A	19900803	LSGT	PAT1	Patented Case	
US4960602 A	19940316	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4960602 A	19980323	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4960602 A	20020328	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4960602 A	20090630	PEXP		Calculated Patent Term Expiry	
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US5021256 A	19900322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY, THE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:GUFFEY, TIMOTHY B.; BOATMAN, DONN N.; ABE, SUSAN S.; AND OTHERS; REEL/FRAME:005254/0582; SIGNING DATES FROM 19900228 TO 19900312
US5021256 A	19910404	LSGT	PAT1	Patented Case	
US5021256 A	19940926	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5021256 A	19981125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5021256 A	20020924	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5021256 A	20091106	PEXP		Calculated Patent	

Term Expiry

33) Family number: 15773986 (WO0184944A1)

Title: USE OF OLIVE OIL FOR THE PRODUCTION OF MARGARINES, BUTTERS, FATS, WHEYS, CREAMS, CHOCOLATE AND THE LIKE

Abstract: According to the invention, virgin olive oil, preferably extra virgin olive oil, is used for the production of margarines, butters, wheys, cream, fat emulsions, fats, chocolate and the like, thereby profiting from the excellent qualities of olive oil. It is also used in vegetable pastes made from dried products such as almond, hazelnut, walnut, pistachio or plants and herbs such as thyme, rosemary, oregano or camomile. Olive oil is used in an amount equivalent to the amount of vegetable fats replaced by said olive oil. Said amount may range up to 65 percent. This makes it possible to obtain more wholesome products having, among others, the quality of balancing cholesterol, preventing cancer, protecting the stomach and positively influencing the reduction of glucose levels.

Classifications:
International (IPC 8-9): A23C15/02 A23C15/12 A23C21/04 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23G1/00 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/52 A23L1/19 A23L1/36 A23L1/38 A23L25/00 A23L25/10 A23L9/20 (Advanced/Invention);
A23C15/00 A23C21/00 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/19 A23L1/36 (Core/Invention)
International (IPC 1-7): A23C15/02 A23C21/04 A23D7/005 A23D7/5 A23D9/00 A23G1/00 A23L1/36
CPC: A23L9/20 A23L25/10 A23L25/30 A23G1/36 A23C15/126 A23C21/04 A23D7/001 A23D7/003 A23D7/0053 A23D7/0056 A23D9/00 A23D9/007 A23G1/38 A23G3/346 A23G3/40 A23G9/327 A23G9/52 A23G2200/08
European: A23C15/12F A23C21/04 A23D7/005N A23D7/005S A23D7/00B A23D7/00D A23D9/00 A23D9/007 A23G1/00 A23G1/00+D8 A23G1/00K A23G1/00K+D8 A23G1/36 A23G1/38 A23G3/00 A23G3/00+D8 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23G9/02 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/52 A23L1/19 A23L1/36D A23L1/38 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
EP1279338 A1	20030129	EP20010925581	20010425
ES2162601 AA	20011216	ES20000001131	20000505
ES2162601 BA	20030401	ES20000001131	20000505
ES2171141 AA	20020816	ES20000003020	20001218
ES2171141 BA	20040316	ES20000003020	20001218
WO0184944 A1	20011115	WO2001ES00154	20010425

Priority:
ES20000001131 20000505 ES20000003020 20001218 WO2001ES00154 20010425

Probable Assignee: CIURANETA MASIP LLUIS
Assignee(s): (std): CIURANETA MASIP LLUIS ; CIURANETA MASIP LUIS
Inventor(s): (std): CIURANETA MASIP LUIS
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Legal status (INPADOC)

View legal status timeline

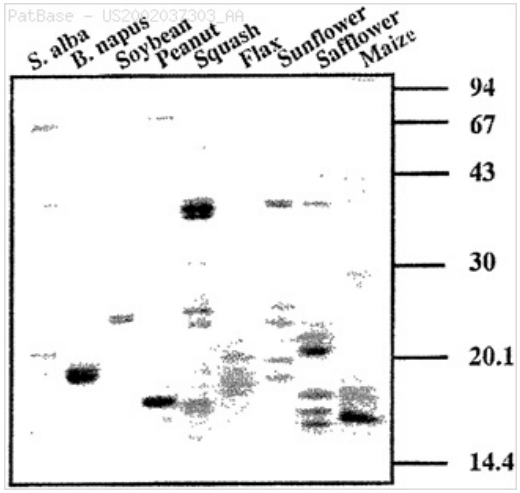
Patent	Date recorded	Event group	Code	Event	Details
EP1279338 A1	20030129	LSPB	+	published / reissued	
EP1279338 A1	20030129	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020122
EP1279338 A1	20060517	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20051102
ES2162601 AA	20011216	LSPB	+	published / reissued	
ES2162601 AA	20011216	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20011216 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20011216
ES2162601 BA	20030401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2162601 BA	20030401	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2162601B1 COUNTRY OF REF DOCUMENT : ES
ES2162601 BA	20100325	LSLE	-FD1A	PATENT LAPSED	EFFECTIVE DATE : 20100312
ES2162601 BA	20200505	PEXP		Calculated Patent Term Expiry	
ES2171141 AA	20020816	LSPB	+	published / reissued	
ES2171141 AA	20020816	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT

					: 20020816 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20020816
ES2171141 BA	20040316	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2171141 BA	20040316	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2171141B1 COUNTRY OF REF DOCUMENT : ES
ES2171141 BA	20100325	LSLE	-FD1A	PATENT LAPSED	EFFECTIVE DATE : 20100312
ES2171141 BA	20201218	PEXP		Calculated Patent Term Expiry	
WO0184944 A1	20011115	LSPB	+	published / reissued	
WO0184944 A1	20020122	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001925581 COUNTRY OF REF DOCUMENT : EP
WO0184944 A1	20030129	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001925581 COUNTRY OF REF DOCUMENT : EP
WO0184944 A1	20051102	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001925581 COUNTRY OF REF DOCUMENT : EP

34) Family number: 30119730 (US2002037303A)

Title: THIOREDOXIN AND THIOREDOXIN REDUCTASE CONTAINING OIL BODY BASED PRODUCTS

Abstract: Source: US2002037303A [EN] The present invention provides novel emulsion formulations which comprise oil bodies. The invention also provides a method for preparing the emulsions and the use of the emulsions in a variety of products including food products, personal care products and pharmaceutical products. In a preferred embodiment the emulsions comprise thioredoxin and/or thioredoxin reductase.



Classifications:

International (IPC 8-9): A23D7/00 A23D7/02 A23D9/00 A23D9/02 A23G3/00 A23G3/34 A23G3/40 A23G3/48 A23G4/00 A23G4/06 A23G9/32 A23G9/42 A23J1/00 A23K1/00 A23K1/16 A23K1/165 A23K1/18 A23L1/00 A23L1/03 A23L1/035 A23L1/18 A23L1/187 A23L1/20 A23L1/22 A23L1/225 A23L1/24 A23L1/39 A23P1/08 A61K36/00 A61K36/185 A61K36/23 A61K36/28 A61K36/286 A61K36/31 A61K36/42 A61K36/47 A61K36/48 A61K36/55 A61K36/889 A61K36/899 A61K38/00 A61K38/27 A61K39/00 A61K39/385 A61K39/39 A61K39/395 A61K45/00 A61K47/00 A61K47/44 A61K49/00 A61K7/00 A61K8/00 A61K8/06 A61K8/18 A61K8/64 A61K8/66 A61K8/73 A61K8/92 A61K8/96 A61K8/97 A61K9/00 A61K9/10 A61K9/107 A61K9/127 A61P17/00 A61P31/04 A61P31/12 A61P33/00 A61P35/00 A61P37/04 A61P37/06 A61P37/08 A61Q1/00 A61Q1/02 A61Q1/04 A61Q1/06 A61Q1/08 A61Q1/10 A61Q1/12 A61Q11/00 A61Q13/00 A61Q17/00 A61Q17/04 A61Q19/00 A61Q19/10 A61Q5/00 B01F17/00 B01F3/08 C07H21/04 C07K1/00 C07K14/415 C07K19/00 C09D5/02 C11B1/00 C11B1/04 C11B1/10 C11B3/00 C11B3/16 C11B5/00 C11C3/00 C12N15/00 C12N15/62 C12N5/00 C12P21/04 D01F13/00 (Advanced/Invention);
A23D7/00 A23D7/02 A23K1/16 A23L1/035 A61K39/39 A61K8/97 C07K19/00 C12N15/62 C12N5/04 C12N9/00 (Advanced/Non-invention);
A23D7/00 A23D7/02 A23D9/00 A23D9/02 A23G3/00 A23G3/34 A23G4/00 A23G4/06 A23G9/32 A23K1/00 A23K1/16 A23K1/165 A23K1/18 A23L1/00 A23L1/03 A23L1/18 A23L1/187 A23L1/22 A23L1/221 A23L1/24 A23L1/39 A23P1/08 A61K36/00 A61K36/18 A61K36/185 A61K36/88 A61K38/27 A61K39/00 A61K39/385 A61K39/39 A61K39/395 A61K45/00 A61K47/00 A61K47/44 A61K49/00 A61K8/00 A61K8/04 A61K8/18 A61K8/30 A61K8/72 A61K8/92 A61K8/96 A61K9/00 A61K9/10 A61K9/107 A61P17/00 A61P31/00 A61P33/00 A61P35/00 A61P37/00 A61Q1/00 A61Q1/02 A61Q1/12 A61Q11/00 A61Q13/00 A61Q17/04 A61Q19/00 A61Q19/10 A61Q5/00 B01F17/00 B01F3/08 C07K14/415 C07K19/00 C09D5/02 C11B1/00 C11B3/00 C11B5/00 C11C3/00 C12N15/62 (Core/Invention);
A23D A23L B01F (Subclass/Invention)

International (IPC 1-7): A23D1/00 A23D7/00 A23D7/02 A23D9/00 A23D9/02 A23F5/00 A23K1/00 A23K1/16 A23K1/18 A23L1/035 A23L1/20 A23L1/24 A23L1/36 A23L1/39 A23L10/35 A61K35/78 A61K38/27 A61K39/00 A61K39/38 A61K39/385 A61K39/39 A61K39/395 A61K45/00 A61K47/44 A61K49/00 A61K6/00 A61K7/00 A61K7/02 A61K7/021 A61K7/025 A61K7/031 A61K7/032 A61K7/06 A61K7/135 A61K7/16 A61K7/3 A61K7/32 A61K7/42 A61K7/44 A61K7/46 A61K9/107 A61K9/127 A61K91/07 A61P31/04 A61P31/12 A61P33/00 A61P35/00 A61P37/04 A61P37/06 A61P37/08 B01F17/00 B01F3/08 C07K19/00 C11B1/00 C11B1/04 C11B1/10 C11B3/00 C11B3/16 C11B5/00 C11C3/00 C12N15/62 C12N15/88 D01F17/00

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European: A23D7/00B A23D7/00D A23G3/00 A23G3/00+D14 A23G3/00+D8 A23G3/00K A23G3/00K+D8 A23G3/00M A23G3/00M+D14 A23G3/00M+D8 A23G3/30 A23G3/30+D14 A23G3/30+D8 A23G3/34C A23G3/34E A23G3/40 A23G3/48 A23G4/06G A23G4/06P A23G9/02 A23G9/02+D14 A23G9/02+D8 A23G9/32G A23G9/42 A23K1/165 A23K1/18S A23L1/00P8B A23L1/187 A23L1/225 A23L1/24 A23L1/39 A23P1/08B A61K35/78 A61K36/00 A61K36/185 A61K36/23 A61K36/28 A61K36/286 A61K36/31 A61K36/42 A61K36/47 A61K36/48 A61K36/889 A61K36/899 A61K39/385 A61K39/39 A61K47/44 A61K7/02B A61K7/26 A61K7/42 A61K7/46 A61K7/48T2 A61K8/06 A61K8/66 A61K8/92C A61K9/00M3 A61K9/00M5 A61K9/107 A61Q1/02 A61Q1/06 A61Q1/08 A61Q1/10 A61Q11/00 A61Q13/00 A61Q17/04 A61Q19/00 A61Q19/10 A61Q5/00 C07K14/415 C09D5/02E C11B1/10 K23G200/08 K23G200/14 K61K201/119 K61K39/54 K61K39/555B8 K61K39/555C K61Q1/02 K61Q1/06 K61Q1/08 K61Q1/10 K61Q11/00 K61Q13/00 K61Q15/00 K61Q17/04 K61Q19/10 K61Q5/00 K61Q5/02 K61Q5/12 M07K207/00 M07K215/00 M07K319/00

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Publication number	Publication date	Application number	Application date
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AT416788 E	20081215	AT20010944823T	20010615
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AU2001267218 AA	20011224	AU20010267218	20010615
AU2001267218 BB	20060202	AU20010267218	20010615
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Priority:

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Inventor(s): G VAN ROOIJEN ; ROOIJEN GIJS ; MURICE MOLONEY ; GIJI VAN ROOIJEN ; H M DECKERS ; SOHEIL SEYED MAHMOUD ; J BOOTHE ; MOLONEY MAURICE AND ; HM DECKERS ; HARM MARIA DECKERS ; WENDY A HUTCHINS ; MAURICE M MOLONEY ; JOENEL ALCANTARA ; ANTHONY B SCHRYVERS ; MAHMOUD SOHEIL SAYED GOLL JANIS BOOTHE JOSEPH VAN ROOIJEN GIJS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; SARGENT; HARDING CHARLES THOMAS; WILLIAMS AYLSA; WILLIAMS AYLSA ET AL; REINHOLD COHN AND PARTNERS; BERESKIN AND PARR; FOLEY AND LARDNER LLP; STEPHEN A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AR012877 AA	20001122	LSPB	+	published / reissued	
AR012877 AA	20090911	LSGT	+FG	GRANT, REGISTRATION	
AT386439 E	20080315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT386439 E	20080915	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 0986309 COUNTRY OF REF DOCUMENT : EP
AT386439 E	20180527	PEXP		Calculated Patent Term Expiry	
AT416788 E	20081215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT416788 E	20090615	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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AU2001267218 BB	20060302	LSRE	DA2	APPLICATIONS FOR AMENDMENT SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 13 FEB 2006.
AU2001267218 BB	20060601	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2001267218 BB	20210615	PEXP		Calculated Patent Term Expiry	
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AU2001267218 CA	20100114	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
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AU772919 B2	20040513	LSGT	+	granted / extensions (spc, cpc, pte)	
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BRPI9809691 A	20090616	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
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BRPI9809691 A	20100713	LSAL	B12B	APPEAL: APPEAL AGAINST REFUSAL	
CA2291274 AA	19991126	LSPB	+	published / reissued	
CA2291274 AA	20010523	LSES	+EEER	EXAMINATION REQUEST	
CA2291274 C	20060516	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2291274 C	20180527	PEXP		Calculated Patent Term Expiry	
CA2411965 AA	20021213	LSPB	+	published / reissued	
CA2411965 AA	20060526	LSES	+EEER	EXAMINATION REQUEST	
CA2411965 AA	20100406	LSLE	-FZDE	DEAD	
CL1998001158 A1	19990126	LSPB	+	published / reissued	
CL46373 B	20100212	LSGT	+	granted /	

				extensions (spc, cpc, pte)	
CL46373 B	20250212	PEXP		Calculated Patent Term Expiry	
CN1084595 C	20020515	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1084595 C	20020515	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1084595 C	20180527	PEXP		Calculated Patent Term Expiry	
CN1258198 A	20000628	LSPB	+	published / reissued	
CN1258198 A	20000628	LSPB	+C06	PUBLICATION	
CY1107375 T1	20121219	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60136928 D1	20091231	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60136928 D1	20100422	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69839148 D1	20090319	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE69839148 T2	20090212	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69839148 T2	20180527	PEXP		Calculated Patent Term Expiry	
DK0986309 T3	20080609	LSGT	+	granted / extensions (spc, cpc, pte)	
DK0986309 T3	20180527	PEXP		Calculated Patent Term Expiry	
EP0986309 A1	20000322	LSPB	+	published / reissued	
EP0986309 A1	20000322	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19991227
EP0986309 A1	20040721	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040604
EP0986309 A1	20060802	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC.
EP0986309 A1	20061206	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040604
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 7/00 20060101AFI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C11B 1/10 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B01F 17/00 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/035 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23K 1/16 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/24 20060101ALI20070905BHEP

EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/39 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/00 20060101ALI20070905BHEP
EP0986309 A1	20071017	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 9/107 20060101ALI20070905BHEP
EP0986309 A1	20080220	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0986309 A1	20080314	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0986309 A1	20080402	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0986309 A1	20080521	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20080400912 COUNTRY OF REF DOCUMENT : GR
EP0986309 A1	20080616	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2301197 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0986309 A1	20081231	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : THE BOOTS COMPANY PLC EFFECTIVE DATE : 20081120
EP0986309 A1	20090302	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	PARTYTYPE : OPPONENT REF COUNTRY CODE : EP OPPONENT : THE BOOTS COMPANY PLC
EP0986309 A1	20090701	LSOP	-R26	OPPOSITION FILED (CORRECTION)	PARTYTYPE : OPPONENT OPPONENT : THE BOOTS COMPANY PLC EFFECTIVE DATE : 20081120
EP0986309 A1	20090901	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	PARTYTYPE : OPPONENT REF COUNTRY CODE : EP OPPONENT : THE BOOTS COMPANY PLC
EP0986309 A1	20101231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CY PAYMENT DATE : 20100527 YEAR OF FEE PAYMENT : 13
EP0986309 A1	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20110526 YEAR OF FEE PAYMENT : 14
EP0986309 A1	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20110531 YEAR OF FEE PAYMENT : 14
EP0986309 A1	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : MC PAYMENT DATE : 20110527 YEAR OF FEE PAYMENT : 14
EP0986309 A1	20110729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20110518 YEAR OF FEE PAYMENT : 14
EP0986309 A1	20110831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20110519 YEAR OF FEE PAYMENT : 14
EP0986309 A1	20111031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20110713 YEAR OF FEE PAYMENT : 14

				NATIONAL OFFICE	
EP0986309 A1	20120627	LSRE	+27O	OPPOSITION REJECTED	EFFECTIVE DATE : 20120219
EP0986309 A1	20120816	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R100 REF DOCUMENT NUMBER : 69839148 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120219
EP0986309 A1	20121231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120531
EP0986309 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20121128 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20121231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0986309 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120531
EP0986309 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120527
EP0986309 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120531
EP0986309 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120527
EP0986309 A1	20130206	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : ML REF DOCUMENT NUMBER : 20080400912 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20121204
EP0986309 A1	20130227	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0986309 A1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121204
EP0986309 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20121128 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20120528 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20130329	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT : AT

				ANNUAL FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20121204 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20121128 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120527
EP0986309 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20121210 YEAR OF FEE PAYMENT : 15
EP0986309 A1	20131130	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : SEMBIOSYS GENETICS INC. EFFECTIVE DATE : 20130531
EP0986309 A1	20131204	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A TEXT : LAPSE DUE TO NON-PAYMENT OF FEES EFFECTIVE DATE : 20131127
EP0986309 A1	20131211	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20131201
EP0986309 A1	20140102	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP0986309 A1	20140115	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 386439 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130531
EP0986309 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131127
EP0986309 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130531
EP0986309 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130528
EP0986309 A1	20140210	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20130531
EP0986309 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131201
EP0986309 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	LAPSED DATE : 20130531
EP0986309 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130531
EP0986309 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120527
EP0986309 A1	20160531	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 19
EP0986309 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 19
EP0986309 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 19
EP0986309 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160530 YEAR OF FEE PAYMENT : 19
EP0986309 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160531 YEAR OF FEE PAYMENT : 19
EP0986309 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 19
EP0986309 A1	20170526	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 20
EP0986309 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170526 YEAR OF FEE PAYMENT : 20
EP0986309 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170530 YEAR OF FEE PAYMENT : 20
EP0986309 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170530 YEAR OF FEE PAYMENT : 20
EP0986309 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170525 YEAR OF FEE PAYMENT : 20
EP0986309 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170602 YEAR OF FEE PAYMENT : 20
EP0986309 B1	20080220	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0986309 B1	20180527	PEXP		Calculated Patent Term Expiry	
EP1289549 A2	20030312	LSPB	+	published / reissued	

EP1289549 A2	20030312	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20021224
EP1289549 A2	20030326	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC.
EP1289549 A2	20070103	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20060208
EP1289549 A2	20081015	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC.
EP1289549 A2	20081119	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC.
EP1289549 B1	20081210	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1289549 B1	20081210	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1289549 B1	20081215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1289549 B1	20090121	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1289549 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090321
EP1289549 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090511
EP1289549 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090310
EP1289549 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20091118	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20090911

EP1289549 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090630
EP1289549 B1	20100129	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1289549 B1	20100224	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20090615
EP1289549 B1	20100301	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100101
EP1289549 B1	20100326	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20100226
EP1289549 B1	20100331	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1289549 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090630
EP1289549 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090630
EP1289549 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090615
EP1289549 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090630
EP1289549 B1	20100531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090615
EP1289549 B1	20100630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20100101
EP1289549 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20100101
EP1289549 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				INFORM. FROM NAT. OFFICE TO EPO	PRESCRIBED TIME-LIMIT LAPSED DATE : 20090311
EP1289549 B1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090615
EP1289549 B1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090615
EP1289549 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081210
EP1289549 B1	20210615	PEXP		Calculated Patent Term Expiry	
EP1905309 A1	20080402	LSPB	+	published / reissued	
EP1905309 A1	20080402	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20071126
EP1905309 A1	20081126	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20081029
EP1905309 A1	20081210	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : SE
EP1905309 A1	20140430	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20131108
EP1905309 A1	20140730	LSRE	D18D	APPLICATION DEEMED TO BE WITHDRAWN (DELETED)	
ES2301197 T3	20080616	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2301197 T3	20180527	PEXP		Calculated Patent Term Expiry	
HK1027487 A1	20030124	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1027487 A1	20041215	LSFE	+PF	PATENT IN FORCE	
HK1027487 A1	20201023	PEXP		Calculated Patent Term Expiry	
IL132908 A1	20020725	LSPB	+	published /	

				reissued	
IL132908 A1	20030112	LSGT	+FF	PATENT GRANTED	
IL132908 A1	20030112	LSFE	+KB	PATENT RENEWED	
IL132908 A1	20040725	LSFE	+KB	PATENT RENEWED	
IL132908 A1	20080810	LSFE	+KB	PATENT RENEWED	
IL132908 A1	20130203	LSLE	-MM9K	PATENT NOT IN FORCE DUE TO NON-PAYMENT OF RENEWAL FEES	
IN01185DE2002 A	20050128	LSPB	+	published / reissued	
IN190035 A	20030531	LSPB	+	published / reissued	
IN190035 B	20121116	LSGT	+	granted / extensions (spc, cpc, pte)	
IN190035 B	20180525	PEXP		Calculated Patent Term Expiry	
IN195229 B	20090731	LSGT	+	granted / extensions (spc, cpc, pte)	
IN195229 B	20221125	PEXP		Calculated Patent Term Expiry	
JP2002503268 T2	20020129	LSPB	+	published / reissued	
JP2002503268 T2	20040608	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20040608
JP2002503268 T2	20041224	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20041207
JP2002503268 T2	20060516	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060516
JP2002503268 T2	20060907	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060816
JP2002503268 T2	20060926	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2002503268 T2	20061003	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20061003
JP2002503268 T2	20061019	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20061016
JP2002503268 T2	20061020	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2004513879 T2	20040513	LSPB	+	published / reissued	
JP2004513879 T2	20080614	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080613
JP2004513879 T2	20080614	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080613
JP2004513879 T2	20110405	LSES	-A131	NOTIFICATION OF REASONS FOR	TEXT : JAPANESE INTERMEDIATE CODE: A131

				REFUSAL	EFFECTIVE DATE : 20110404
JP2004513879 T2	20111129	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20111128
JP3869861 B2	20070117	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3869861 B2	20091001	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3869861 B2	20091006	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3869861 B2	20101026	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3869861 B2	20111006	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3869861 B2	20111011	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3869861 B2	20130409	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3869861 B2	20131015	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3869861 B2	20151020	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3869861 B2	20161018	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3869861 B2	20180527	PEXP		Calculated Patent Term Expiry	
KR20010013047 A	20010226	LSPB	+	published / reissued	
KR20010013047 A	20011010	LSES	A201	REQUEST FOR EXAMINATION	
KR20010013047 A	20040129	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20010013047 A	20040726	LSRE	AMND	AMENDMENT	
KR20010013047 A	20050112	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20010013047 A	20050613	LSRE	AMND	AMENDMENT	
KR20010013047 A	20050829	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20010013047 A	20051029	LSRE	AMND	AMENDMENT	
KR20010013047 A	20061206	LSAL	J2X1	APPEAL (BEFORE THE PATENT COURT)	TEXT : APPEAL AGAINST DECISION TO DECLINE REFUSAL
KR20030009538 A	20030129	LSPB	+	published / reissued	
KR20030009538 A	20060615	LSES	A201	REQUEST FOR EXAMINATION	
KR20030009538 A	20070530	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20030009538 A	20090102	LSGT	+E701	DECISION TO	

				GRANT OR REGISTRATION OF PATENT RIGHT	
KR20040101211 A	20041202	LSPB	+	published / reissued	
KR20040101211 A	20040726	LSES	A201	REQUEST FOR EXAMINATION	
KR20040101211 A	20041227	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20040101211 A	20050326	LSRE	AMND	AMENDMENT	
KR20040101211 A	20050819	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20040101211 A	20051219	LSRE	AMND	AMENDMENT	
KR20040101211 A	20060419	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20040101211 A	20060818	LSRE	AMND	AMENDMENT	
KR20040101211 A	20080105	LSAL	J2X1	APPEAL (BEFORE THE PATENT COURT)	TEXT : APPEAL AGAINST DECISION TO DECLINE REFUSAL
KR20040101211 A	20090130	LSAL	J2X2	APPEAL (BEFORE THE SUPREME COURT)	TEXT : APPEAL BEFORE THE SUPREME COURT FOR APPEAL AGAINST DECISION TO DECLINE REFUSAL
MXPA02012501 A1	20030606	LSPB	+	published / reissued	
MXPA02012501 A1	20130930	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
NO316731 B1	20040419	LSGT	+	granted / extensions (spc, cpc, pte)	
NO316731 B1	20111227	LSLE	-MM1K	LAPSED BY NOT PAYING THE ANNUAL FEES	
NO316731 B1	20191126	PEXP		Calculated Patent Term Expiry	
NO995802 A	20000126	LSPB	+	published / reissued	
NZ501404 A	20010928	LSPB	+	published / reissued	
NZ501404 A	20020201	LSGT	+PSEA	PATENT SEALED	
NZ501404 A	20020628	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ501404 A	20050624	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ501404 A	20080627	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ501404 A	20110527	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
PT986309 T	20080403	LSGT	+	granted / extensions (spc, cpc, pte)	
PT986309 T	20180527	PEXP		Calculated Patent Term Expiry	
RU2200420 C2	20030320	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2200420 C2	20140410	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20130528
RU2200420 C2	20180527	PEXP		Calculated Patent Term Expiry	
RU99128048 A	20011127	LSPB	+	published / reissued	

TW505508 B	20021011	LSGT	+	granted / extensions (spc, cpc, pte)	
TW505508 B	20030218	LSGT	+GD4A	ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT	
TW505508 B	20150711	LSLE	-MM4A	ANNULMENT OR LAPSE OF PATENT DUE TO NON-PAYMENT OF FEES	
TW505508 B	20180603	PEXP		Calculated Patent Term Expiry	
UA66360 C2	20001016	LSGT	+	granted / extensions (spc, cpc, pte)	
UA66360 C2	20180527	PEXP		Calculated Patent Term Expiry	
US2002037303 AA	20020328	LSPB	+	published / reissued	
US2002037303 AA	20070111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SYNGENTA PARTICIPATIONS AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DALMIA, BIPIN K.; REEL/FRAME:018749/0159 EFFECTIVE DATE : 20030704
US2002037303 AA	20070111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS, INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SYNGENTA PARTICIPATIONS AG; REEL/FRAME:018749/0222 EFFECTIVE DATE : 20030707
US2002037303 AA	20070112	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:018751/0334; SIGNING DATES FROM 20030704 TO 20030707
US2002071846 AA	20020613	LSPB	+	published / reissued	
US2002071846 AA	20030501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SCHRYVERS, ANTHONY; REEL/FRAME:014026/0506 EFFECTIVE DATE : 20021125
US2002071846 AA	20030501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HUTCHINS, WENDY; REEL/FRAME:014026/0631 EFFECTIVE DATE : 20020116
US2002071846 AA	20030502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:014029/0138; SIGNING DATES FROM 20030421 TO 20030423
US2002071852 AA	20020613	LSPB	+	published / reissued	
US2002071852 AA	20021129	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC.,

					CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; ROOIJEN, GIJS VAN; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:013536/0896; SIGNING DATES FROM 20000705 TO 20020705
US2002106337 AA	20020808	LSPB	+	published / reissued	
US2002106337 AA	20030123	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:013687/0229; SIGNING DATES FROM 20030117 TO 20030121
US2002114820 AA	20020822	LSPB	+	published / reissued	
US2004081654 AA	20040429	LSPB	+	published / reissued	
US2004081654 AA	20030305	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOLONEY, MAURICE M.; ALCANTARA, JOENEL; REEL/FRAME:013812/0674; SIGNING DATES FROM 20030214 TO 20030218
US2004081654 AA	20030416	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HUTCHINS, WENDY; REEL/FRAME:013969/0872 EFFECTIVE DATE : 20020106
US2004081654 AA	20060830	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005106157 AA	20050519	LSPB	+	published / reissued	
US2005106157 AA	20050112	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS, INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:015582/0991; SIGNING DATES FROM 20040929 TO 20041220
US2005106157 AA	20090921	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2006233816 AA	20061019	LSPB	+	published / reissued	
US2006233816 AA	20070110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MOLONEY, MAURICE M.; ALCANTARA, JOENEL; REEL/FRAME:018755/0815; SIGNING DATES FROM 20030214 TO 20030218
US2006233816 AA	20070110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SCHRYVERS, ANTHONY; REEL/FRAME:018755/0807 EFFECTIVE DATE : 20021125

US2006233816 AA	20070110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., GEORGIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HUTCHINS, WENDY; REEL/FRAME:018755/0811 EFFECTIVE DATE : 20020116
US2006233816 AA	20080702	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US6146645 A	20001114	LSGT	+	granted / extensions (spc, cpc, pte)	
US6146645 A	19980807	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:009371/0370 EFFECTIVE DATE : 19980708
US6146645 A	20001027	LSGT	PAT1	Patented Case	
US6146645 A	20010508	LSRE	CC	CERTIFICATE OF CORRECTION	
US6146645 A	20040422	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6146645 A	20080502	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6146645 A	20121114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6146645 A	20180527	PEXP		Calculated Patent Term Expiry	
US6183762 BA	20010206	LSGT	+	granted / extensions (spc, cpc, pte)	
US6183762 BA	20000310	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:010678/0007; SIGNING DATES FROM 20000222 TO 20000228
US6183762 BA	20010119	LSGT	PAT1	Patented Case	
US6183762 BA	20040721	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6183762 BA	20080729	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6183762 BA	20130130	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6183762 BA	20191124	PEXP		Calculated Patent Term Expiry	
US6210742 BA	20010403	LSGT	+	granted / extensions (spc, cpc, pte)	
US6210742 BA	20010315	LSGT	PAT1	Patented Case	
US6210742 BA	20040927	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6210742 BA	20080916	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6210742 BA	20120621	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HARM M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:028416/0153 EFFECTIVE DATE : 19980708
US6210742 BA	20130326	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

US6210742 BA	20200705	PEXP		Calculated Patent Term Expiry	
US6372234 BA	20020416	LSGT	+	granted / extensions (spc, cpc, pte)	
US6372234 BA	20000815	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEMBIOSYS GENETICS, INC., CANADA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DECKERS, HAMR M.; VAN ROOIJEN, GIJS; BOOTHE, JOSEPH; AND OTHERS; REEL/FRAME:011047/0671 EFFECTIVE DATE : 20000705
US6372234 BA	20020328	LSGT	PAT1	Patented Case	
US6372234 BA	20021126	LSRE	CC	CERTIFICATE OF CORRECTION	
US6372234 BA	20050927	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6372234 BA	20090921	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6372234 BA	20131002	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6372234 BA	20200524	PEXP		Calculated Patent Term Expiry	
US6582710 BB	20030624	LSGT	+	granted / extensions (spc, cpc, pte)	
US6582710 BB	20030605	LSGT	PAT1	Patented Case	
US6582710 BB	20061201	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6582710 BB	20101209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6582710 BB	20141216	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6582710 BB	20220129	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6596287 BB	20030722	LSGT	+	granted / extensions (spc, cpc, pte)	
US6596287 BB	20030702	LSGT	PAT1	Patented Case	
US6596287 BB	20070108	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6596287 BB	20110119	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6596287 BB	20150112	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6596287 BB	20211024	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6599513 BB	20030729	LSGT	+	granted / extensions (spc, cpc, pte)	
US6599513 BB	20030710	LSGT	PAT1	Patented Case	
US6599513 BB	20070102	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6599513 BB	20110119	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6599513 BB	20150119	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6599513 BB	20211024	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6761914 BB	20040713	LSGT	+	granted / extensions (spc, cpc, pte)	

US6761914 BB	20040624	LSGT	PAT1	Patented Case	
US6761914 BB	20071219	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6761914 BB	20111221	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6761914 BB	20160713	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6761914 BB	20160808	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6761914 BB	20160830	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160713
US6761914 BB	20210615	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7585645 BB	20090908	LSGT	+	granted / extensions (spc, cpc, pte)	
US7585645 BB	20090819	LSGT	PAT1	Patented Case	
US7585645 BB	20100914	LSRE	CC	CERTIFICATE OF CORRECTION	
US7585645 BB	20130228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7585645 BB	20171009	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7585645 BB	20171009	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7585645 BB	20171031	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170908
US7585645 BB	20211024	PEXP		Calculated Patent Term Expiry (PTA 111 days and a terminal disclaimer has been filed)	
WO0195934 A2	20011220	LSPB	+	published / reissued	
WO0195934 A3	20021213	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2411965 COUNTRY OF REF DOCUMENT : CA
WO0195934 A3	20021216	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2002 510111 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0195934 A3	20021216	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020027017186 COUNTRY OF REF DOCUMENT : KR
WO0195934 A3	20021216	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2002/012501 COUNTRY OF REF DOCUMENT : MX
WO0195934 A3	20021223	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001944823 COUNTRY OF REF DOCUMENT : EP
WO0195934 A3	20030110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001267218 COUNTRY OF REF DOCUMENT : AU

WO0195934 A3	20030129	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020027017186 COUNTRY OF REF DOCUMENT : KR
WO0195934 A3	20030312	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001944823 COUNTRY OF REF DOCUMENT : EP
WO0195934 A3	20030424	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0195934 A3	20030915	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10297585 COUNTRY OF REF DOCUMENT : US
WO0195934 A3	20060519	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001267218 COUNTRY OF REF DOCUMENT : AU
WO9853698 A1	19981203	LSPB	+	published / reissued	
WO9853698 A1	19980527	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 132908 COUNTRY OF REF DOCUMENT : IL
WO9853698 A1	19991109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 75178/98 COUNTRY OF REF DOCUMENT : AU
WO9853698 A1	19991122	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1998922563 COUNTRY OF REF DOCUMENT : EP
WO9853698 A1	19991126	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2291274 COUNTRY OF REF DOCUMENT : CA
WO9853698 A1	19991126	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2291274 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9853698 A1	19991126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1019997011023 COUNTRY OF REF DOCUMENT : KR
WO9853698 A1	19991126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/1999/010958 COUNTRY OF REF DOCUMENT : MX
WO9853698 A1	19991129	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 1999 500043 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9853698 A1	19991129	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 501404 COUNTRY OF REF DOCUMENT : NZ
WO9853698 A1	20000322	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998922563 COUNTRY OF REF DOCUMENT : EP
WO9853698 A1	20000330	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9853698 A1	20010226	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1019997011023 COUNTRY OF REF DOCUMENT : KR
WO9853698 A1	20011220	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 75178/98 COUNTRY OF REF DOCUMENT : AU
WO9853698 A1	20050829	LSRV	-WWR	WIPO INFORMATION: REFUSED IN NATIONAL	REF DOCUMENT NUMBER : 1019997011023 COUNTRY OF REF DOCUMENT : KR

				OFFICE	
WO9853698 A1	20080220	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998922563 COUNTRY OF REF DOCUMENT : EP
ZA9804459 A	19990413	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9804459 A	20180525	PEXP		Calculated Patent Term Expiry	

35) Family number: 32305948 (WO05079591A1)

Title: FATS AND OILS COMPOSITION CONTAINING DIGLYCERID, AND MARGARINE, FRIED OIL AND FOOD CONTAINING THE COMPOSITION

Abstract: The invention relates to a fats and oils composition containing diglyceride, and relates to margarine, fried oil and food containing the composition. The diglyceride in the composition is at least of 30 weight percent, the saturated fatty acid in the composition is more than 15 weight percent. The composition has the effect of burning the body fat to prevent obesity and gain weight, the composition can be used as mixed oil, margarine, shortening, and can be used to instead of fat in the food, also contributing food to good spreadability, melting property and oxidation stability.

Classifications:
International (IPC 8-9): A21D13/08 A21D2/16 A23D7/005 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23G1/36 A23G3/00 A23G3/40 A23G9/32 A23L1/24 A23L1/30 (Advanced/Invention);
A21D13/00 A21D2/00 A23D7/005 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23L1/24 A23L1/30 (Core/Invention)
International (IPC 1-7): A21D13/08 A23D7/005 A23D9/00 A23D9/007 A23G1/00 A23G3/00 A23G9/02 A23L1/24
CPC: A23L33/115 A23D9/013 A21D2/16 A23D7/013 A23G1/36 A23G3/40 A23G9/327
European: A21D2/16 A23D7/01S A23D9/013 A23G1/36 A23G3/40 A23G9/32G A23L1/30C

Family:

Publication number	Publication date	Application number	Application date
CN1656907 A	20050824	CN200410015401	20040217
WO05079591 A1	20050901	WO2004CN000785	20040712

Priority:

CN200410015401 20040217

Probable Assignee: NANHAI OIL IND CHIWAN CO

Assignee(s): (std): HU PENG ; NANHAI OIL IND CHIWAN CO ; SOUTHSEAS OILS AND FATS IND CHIW ; XIE QIANLING ; YANG BOTAO ; NANHAI OIL INDUSTRY CHIWAN CO

Assignee(s): NANHAI OIL INDUSTRY CHIWAN CO LTD ; SOUTHSEAS OILS AND FATS INDUSTRIAL LTD ; SOUTHSEAS OILS AND FATS INDUSTRIAL CHIWAN LIMITE ; SOUTHSEAS OILS AND FATS INDUSTRIAL CHIWAN LIMITED ; SOUTHSEAS OILS AND FATS INDUSTRIAL CHIWAN LTD ; NANHAI OIL IND CHIWAN CO LTD ; NANHAI OIL IND CO LTD

Inventor(s): (std): HU PENG ; XIE QIANLING ; YANG BOTAO

Inventor(s): PENG HU ; QIANLING XIE ; BOTAO YANG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN1656907 A	20050824	LSPB	+	published / reissued	
CN1656907 A	20050824	LSPB	+C06	PUBLICATION	
CN1656907 A	20070110	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
WO05079591 A1	20050901	LSPB	+	published / reissued	
WO05079591 A1	20060818	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05079591 A1	20060818	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05079591 A1	20070411	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

36) Family number: 5116029 (US5139807A)

Title: AMIDE LINKED LOW CALORIE FAT MIMETICS

Abstract: Source: US5139807A [EN] Novel fat mimetic compositions are disclosed to be useful in reduced calorie foods. These compounds, which can be referred to as amide linked fat mimetics, consist of fragments bearing ester, ether, and/or amide groups joined by an aliphatic or alicyclic group through at least one amide linkage. These complex amide linked fat mimetics may be partially broken down in the body to produce digestion residues which are substantially nondigestible themselves and are sufficiently hydrophilic to enable the digestion residues to be incorporated in the normal stool. These fat mimetic compounds are useful as replacements for fats and oils for most food applications.

Classifications:

International (IPC 8-9): A21D10/00 A21D13/06 A21D13/08 A21D2/24 A23C19/05 A23C20/00 A23C9/152 A23D7/01 A23D7/015 A23D9/013 A23G3/34 A23K1/18 A23L1/18 A23L1/187 A23L1/19 A23L1/30 A23L1/317 A23L1/38 (Advanced/Invention); A21D10/00 A21D13/00 A21D2/00 A23C19/00 A23C20/00 A23C9/152 A23D7/005 A23D7/015 A23D9/007 A23G3/34 A23K1/18 A23L1/18 A23L1/187 A23L1/19 A23L1/30 A23L1/317 A23L1/36 (Core/Invention)
International (IPC 1-7): A23L1/09 C09F5/00
CPC: A21D13/068 A21D2/24 A21D10/00 A23C9/1528 A23C19/054 A23C20/00 A23C2250/25 A23D7/013 A23D7/015 A23D9/013 A23G3/346 A23G2200/00 A23G2200/08 A23G2200/10 A23K50/40 A23L7/17 A23L9/10 A23L9/22 A23L13/65 A23L25/10 A23L33/115
European: A21D10/00 A21D13/06F A21D13/08 A21D2/24 A23C19/05H A23C20/00 A23C9/152F A23D7/015 A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D A23G3/00K+D10 A23G3/00K+D8 A23G3/34E A23K1/18N A23L1/187 A23L1/18B2 A23L1/19B A23L1/30C A23L1/317B A23L1/38 K23C250/25 K23G200/00 K23G200/08 K23G200/10
US: 426/531 426/601 426/611 554/106 554/107 554/110 554/223 554/227 554/57 554/58 554/63

Family:

Publication number	Publication date	Application number	Application date
US5139807 A	19920818	US19900626845	19901213

Priority:

US19900626845 19901213

Probable Assignee: NABISCO TECHNOLOGY CO

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; NABISCO BRANDS INC

Inventor(s): (std): FINLEY JOHN W ; KLEMANN LAWRENCE P ; YARGER RONALD G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5139807 A	19920818	LSGT	+	granted / extensions (spc, cpc, pte)	
US5139807 A	19901213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., 200 DEFOREST AVENUE, EAST HA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; YARGER, RONALD G.; REEL/FRAME:005540/0173 EFFECTIVE DATE : 19901210
US5139807 A	19920327	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A CORP. OF DE; REEL/FRAME:006066/0625 EFFECTIVE DATE : 19920325
US5139807 A	19920806	LSGT	PAT1	Patented Case	
US5139807 A	19951211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5139807 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5139807 A	20000820	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5139807 A	20001024	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE	EFFECTIVE DATE : 20000818

			FEE
US5139807 A	20101213	PEXP	Calculated Patent Term Expiry

37) Family number: 59005357 (US2016256556A)

Title: OIL/FAT COMPOSITION CONTAINING POLYUNSATURATED FATTY ACID

Abstract: Source: US2016256556A [EN] A flavor improver for a polyunsaturated fatty acid-containing fat or oil, containing a basic peptide; and a polyunsaturated fatty acid-containing fat or oil composition, containing a fat or oil containing a polyunsaturated fatty acid having 18 or more carbon atoms and two more double bonds, a basic amino acid and/or a basic peptide, and an emulsifying agent. The flavor improver for a polyunsaturated fatty acid-containing fat or oil and the polyunsaturated fatty acid-containing fat or oil composition of the present invention can suppress the generation of unpleasant taste and flavor from the polyunsaturated fatty acid over a long time period.

Classifications:

International (IPC 8-9): A21D2/16 A23C9/13 A23D9/00 A23D9/007 A23D9/013 A23F5/24 A23F5/40 A23G9/32 A23G9/44 A23G9/52 A23L1/229 A23L1/30 A23L15/00 A23L2/38 A23L2/56 A23L21/10 A23L23/00 A23L27/00 A23L27/21 A23L27/60 A23L35/00 A23L9/10 A61K31/201 A61K31/202 A61K47/14 A61K47/18 A61K47/24 A61K47/26 A61K47/34 A61K47/42 A61K8/36 A61K8/44 A61K8/64 A61K8/72 A61K8/88 A61K8/92 A61K9/107 A61K9/14 A61P25/28 A61P29/00 A61P3/02 A61P3/06 A61P37/04 A61P37/08 A61P9/10 A61P9/12 A61Q19/00 C11B5/00 (Advanced/Invention);
A21D2/16 A23C9/13 A23F5/24 A23G9/32 A23G9/44 A23G9/52 A23L1/06 A23L1/187 A23L1/24 A23L1/32 A23L1/39 A23L1/48 A23L15/00 A23L2/38 A23L21/10 A23L23/00 A23L27/60 A23L35/00 A23L9/10 (Advanced/Non-invention)

CPC: A23G9/32 A23G9/44 A23G9/52 A23L27/21 A23L27/84 A23L27/88 A23L33/115 A61K47/34 A23G9/327 A61K31/202 A61K47/14 A61K8/72 A23V2002/00 A61K2800/40 A23F5/405 A21D2/16 A23C9/1315 A23D9/007 A23D9/013 A23L2/56 A61K8/361 A61K8/64 A61Q19/00

US: 514/560

Family:

Publication number	Publication date	Application number	Application date
CN105658073 A	20160608	CN201480055710	20141007
EP3056090 A1	20160817	EP20140851739	20141007
EP3056090 A4	20170426	EP20140851739	20141007
JP2015073464 A2	20150420	JP20130211308	20131008
JP2015196827 A2	20151109	JP20140077134	20140403
KR20160067165 A	20160613	KR20167011817	20141007
US2016256556 AA	20160908	US20140027919	20141007
WO15053252 A1	20150416	WO2014JP76767	20141007

Priority:

JP20130211308 20131008 JP20140077134 20140403 WO2014JP76767 20141007

Probable Assignee: TAIYO KAGAKU CO LTD

Assignee(s): (std): KASAMA YUUKI ; TAIYO KAGAKU CO LTD ; TAIYO KAGAKU KK ; TOMINAGA ETSUKO

Assignee(s): TAIYO KAGAKU CO

Inventor(s): (std): KASAMA YUKI ; KASAMA YUUKI ; TOMINAGA ETSUKO

Agent(s): VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; HOSODA YOSHINORI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN105658073 A	20160608	LSPB	+	published / reissued	
CN105658073 A	20160608	LSPB	+C06	PUBLICATION	
EP3056090 A1	20160817	LSPB	+	published / reissued	
EP3056090 A1	20160817	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20160503
EP3056090 A1	20170426	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20170323
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 31/201 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/44 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/88 20060101ALI20170327BHEP

EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 9/14 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 9/00 20060101AFI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 31/202 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/26 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 9/107 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/24 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/18 20170101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/34 20170101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 9/007 20060101ALI20170327BHEP
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EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/14 20170101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 47/42 20170101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61Q 19/00 20060101ALI20170327BHEP
EP3056090 A1	20170503	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/36 20060101ALI20170327BHEP
JP2015073464 A2	20150420	LSPB	+	published / reissued	
JP2015073464 A2	20160829	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20160829
JP2015073464 A2	20170622	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20170622
JP2015073464 A2	20171017	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20171017
JP2015073464 A2	20171106	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20171017
JP2015196827 A2	20151109	LSPB	+	published / reissued	
JP2015196827 A2	20170329	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20170329
KR20160067165 A	20160613	LSPB	+	published /	

				reissued	
KR20160067165 A	20160503	LSES	A201	REQUEST FOR EXAMINATION	
KR20160067165 A	20171121	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
US2016256556 AA	20160908	LSPB	+	published / reissued	
US2016256556 AA	20160408	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TAIYO KAGAKU CO., LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KASAMA, YUUKI; TOMINAGA, ETSUKO; REEL/FRAME:038228/0214 EFFECTIVE DATE : 20160311
US2016256556 AA	20170927	LSES	NFA1	Non Final Action Mailed	
US2016256556 AA	20171213	LSES	NFA1	Non Final Action Mailed	
WO15053252 A1	20150416	LSPB	+	published / reissued	
WO15053252 A1	20160407	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15027919 COUNTRY OF REF DOCUMENT : US
WO15053252 A1	20160408	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO15053252 A1	20160503	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20167011817 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :

38) Family number: 62056120 (US2016096854A)

Title: METHOD FOR SUPPRESSING HEAT DISCOLORATION OF LECITHIN

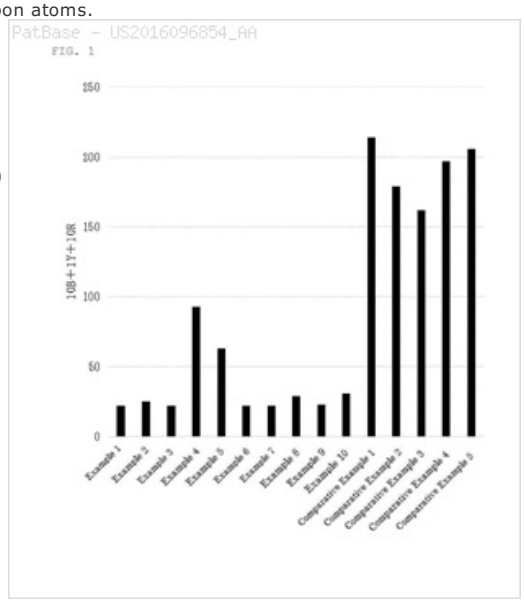
Abstract: Source: US2016096854A [EN] [PROBLEM] To provide a novel method for suppressing heat discoloration of lecithin and a novel lecithin or lecithin preparation having resistance to heat discoloration. [SOLUTION] A method for suppressing heat discoloration of lecithin, comprising adding a fatty acid metal salt to lecithin, and a lecithin or lecithin preparation having resistance to heat discoloration and containing a fatty acid metal salt. Preferably, the metal constituting the fatty acid metal salt is at least one selected from the group consisting of lithium, beryllium, sodium, magnesium, aluminum, potassium, calcium, iron, cobalt, nickel, copper, zinc, silver, barium, thallium, and lead, and the fatty acid of the fatty acid metal salt is at least one selected from saturated fatty acids and unsaturated fatty acids having 3 to 36 carbon atoms.

Classifications:

International (IPC 8-9)**:** A23C9/13 A23C9/152 A23D9/00 A23D9/007 A23D9/013 A23G1/36 A23G3/40 A23G4/06 A23G9/32 A23J7/00 A23K1/16 A23K20/00 A23K20/10 A23L2/52 A23L29/00 A23L29/10 A23L33/10 A23L5/41 A61K31/20 A61K31/685 A61K47/12 A61K47/24 A61K8/04 A61K8/36 A61K8/55 A61K8/92 A61K9/10 A61Q19/00 C07F9/10 (Advanced/Invention)

CPC: C07F9/10 A61K8/553 A61K8/361 A61K47/24 A61K47/12 A61Q19/00 A23D9/00 A61K2800/591 A61K2800/524 A61K2800/10 A23D9/013 A23J7/00 A23L1/032 A23D9/007 A61K31/685 A23V2002/00 A23V2200/048 A23K20/158 A23L29/10 A23L5/41 A23C9/13 A23C9/152 A23G1/36 A23G3/40 A23G4/06 A23G9/327 A23L2/52

US: 426/601 514/784 554/2



Family:

Publication number	Publication date	Application number	Application date
CA2906583 AA	20160407	CA20152906583	20150930
CN105475609 A	20160413	CN201510645426	20151008
EP3005878 A1	20160413	EP20150186230	20150922
IN03567MU2015 A	20160708	IN2015MU03567	20150918
JP2016073244 A2	20160512	JP20140206771	20141007
KR20160041791 A	20160418	KR20150139562	20151005
TW201613478 A	20160416	TW20150132726	20151005
US2016096854 AA	20160407	US20150874774	20151005

Priority:

JP20140206771 20141007 KR20150139562 20151005

Probable Assignee: TSUJI OIL MILLS CO LTD

Assignee(s): (std)**:** TSUJI OIL MILL CO LTD ; TSUJI OIL MILLS CO LTD ; TSUJI SEIYU KK

Assignee(s): TSUJI OIL MILLS CO ; FUJIMOTO YUKI ; HAMAGUCHI NOBUTOSHI ; HAYASHI AKIHITO ; TSUJI OIL MILL CO

Inventor(s): (std)**:** HAYASHI AKIHITO ; HAMAGUCHI NOBUTOSHI ; FUJIMOTO YUKI

Agent(s): TORYS LLP; WITTE WELLER AND PARTNER PATENTANWAELTE MBB; IWATANI RYO

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2906583 AA	20160407	LSPB	+	published / reissued	
CN105475609 A	20160413	LSPB	+	published / reissued	
CN105475609 A	20160413	LSPB	+C06	PUBLICATION	
EP3005878 A1	20160413	LSPB	+	published / reissued	
EP3005878 A1	20161123	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20161011
IN03567MU2015 A	20160708	LSPB	+	published /	

				reissued	
JP2016073244 A2	20160512	LSPB	+	published / reissued	
JP2016073244 A2	20170419	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20170419
KR20160041791 A	20160418	LSPB	+	published / reissued	
TW201613478 A	20160416	LSPB	+	published / reissued	
US2016096854 AA	20160407	LSPB	+	published / reissued	
US2016096854 AA	20151023	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TSUJI OIL MILLS CO., LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FUJIMOTO, YUKI; HAYASHI, AKIHITO; HAMAGUCHI, NOBUTOSHI; REEL/FRAME:036868/0879 EFFECTIVE DATE : 20151013
US2016096854 AA	20171017	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2016096854 AA	20171024	LSES	NFA1	Non Final Action Mailed	

39) Family number: 16057871 (US2004062847A)

Title: OIL/FAT COMPOSITION

Abstract: Source: US2004062847A [EN] An oil/fat composition comprising 5 to 99.9 weight percent of a monoglyccride having, as fatty acid constituents thereof, 15 to 90 wt percent of an omega 3-unsaturated fatty acid having less than 20 carbon atoms, 1 to 80 weight percent of an omega 9-unsaturated fatty acid and 2 to 50 weight percent of an omega 9-unsaturated fatty acid; and 0.1 to 49.9 weight percent of a diglyceride, wherein a weight ratio of the diglyceride to the monoglyceride is less than 1 and the content of a polyunsaturated fatty acid having at least 4 carbon-to-carbon double bonds is 20 percent or less in all the fatty acid constituents. The oil/fat composition according to the present invention has excellent processing properties, good taste and excellent lowering action against glutamic oxaloacetic transaminase (GOT) and glutamic pyruvic transaminase (GPT) levels in blood. It is useful not only for pharmaceuticals but also for preventive or remedial foods of feeds effective for hepatic function disturbances or obesity.



Classifications:

International (IPC 8-9): A21D2/16 A23D7/00 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23G1/36 A23G3/00 A23G3/40 A23G9/32 A23K1/16 A23K1/165 A23L1/16 A23L1/29 A23L1/30 A23L1/314 A23L1/317 A23L1/48 A61K31/20 A61K31/22 A61K31/575 A61K45/06 A61P1/16 A61P3/04 A61P3/06 A61P3/10 A61P43/00 A61P9/12 C11B5/00 C11C3/00 C11C3/02 C11C3/06 C11C3/10 (Advanced/Invention); A21D2/00 A23D7/00 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23K1/16 A23K1/165 A23L1/16 A23L1/29 A23L1/30 A23L1/314 A23L1/317 A23L1/48 A61K31/185 A61K31/21 A61K31/575 A61K45/00 A61P1/00 A61P3/00 A61P43/00 A61P9/00 C11B5/00 C11C3/00 (Core/Invention)

International (IPC 1-7): A21D2/16 A23D7/00 A23D9/00 A23D9/007 A23D9/013 A23K1/16 A23K1/165 A23L1/16 A23L1/30 A23L1/48 A61K31/20 A61K31/22 A61K31/575 A61P1/16 A61P3/04 A61P3/06 A61P3/10 A61P43/00 A61P9/12 C11C3/00 C11C3/02 C11C3/10

CPC: A23K20/158 A23G1/36 A21D2/16 A21D2/165 A23D9/00 A23D9/013 A23G3/40 A23G9/327 A23V2002/00 A61K45/06 C11C3/02 C11C3/06 A23L7/111 A23L13/428 A23L13/43 A23L13/60 A23L33/11 A23L33/115 A23L33/12

European: A21D2/16 A21D2/16D A23D9/00 A23D9/013 A23G1/00 A23G1/00+D8 A23G1/36 A23G3/00 A23G3/00+D8 A23G3/40 A23G9/02 A23G9/02+D8 A23G9/32G A23K1/16I A23L1/16D A23L1/30B2 A23L1/30C A23L1/30C2 A23L1/314B10 A23L1/314B8 A23L1/317 A61K45/06 C11C3/02 C11C3/06

US: 426/541 426/601 426/601P 426/607 426/610 514/549 514/560

Family:

Publication number	Publication date	Application number	Application date
BRPI0113104 A	20030701	BR2001PI13104	20010807
CA2418348 AA	20030205	CA20012418348	20010807
CA2418348 C	20091201	CA20012418348	20010807
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CN1468060 A	20040114	CN20018016698	20010807
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EP1307108 B1	20091230	EP20010954489	20010807
JP2002053892 A2	20020219	JP20000239574	20000808
JP4391673 B2	20091224	JP20000239574	20000808
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US7056949 BB	20060606	US20010343742	20010807
WO0211551 A2	20020214	WO2001JP06779	20010807
WO0211551 A3	20020606	WO2001JP06779	20010807

Priority:

JP20000239574 20000808 WO2001JP06779 20010807

Probable Assignee: KAO CORP

Assignee(s): (std): HASE TADASHI ; KAO CORP ; KOIKE SHIN ; YASUMASU TAKESHI ; MURASE TAKATOSHI ; YASUKAWA TAKUJI

Inventor(s): (std): HASE TADASHI ; KOIKE MAKOTO ; KOIKE SHIN ; MURASE TAKATOSHI ; YASUKAWA TAKUJI ; YASUMASU TAKESHI ; TAKUJI YASUKAWA ; TADASHI HASE ; SHIN KOIKE

Inventor(s): YASUMASU TAKESHI C O KAO CORP RES LABORATORIES ; MURASE TAKATOSHI C O KAO CORP RES LABORATORIES ; KOIKE SHIN C O KAO CORP RESEARCH LABORATORIES ; HASE TADASHI C O KAO CORP RESEARCH LABORATORIES

Agent(s): GOWLING LAFLEUR HENDERSON LLP; HOFFMANN EITLE; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: BR CA CN DE FR GB US

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BRPI0113104 A	20030701	LSPB	+	published / reissued	
BRPI0113104 A	20150922	LSES	B07D	TECHNICAL EXAMINATION (OPINION) RELATED TO ARTICLE 229 OF INDUSTRIAL PROPERTY LAW	

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CA2418348 AA	20060705	LSES	+EEER	EXAMINATION REQUEST	
CA2418348 C	20091201	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2418348 C	20210807	PEXP		Calculated Patent Term Expiry	
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CN100448358 C	20210807	PEXP		Calculated Patent Term Expiry	
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CN1468060 A	20040114	LSPB	+C06	PUBLICATION	
DE60140943 D1	20110120	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1307108 A2	20030507	LSPB	+	published / reissued	
EP1307108 A2	20030507	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030206
EP1307108 A2	20050622	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20050506
EP1307108 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160802 YEAR OF FEE PAYMENT : 16
EP1307108 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160803 YEAR OF FEE PAYMENT : 16
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EP1307108 B1	20170714	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
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EP1307108 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170714 YEAR OF FEE PAYMENT : 17
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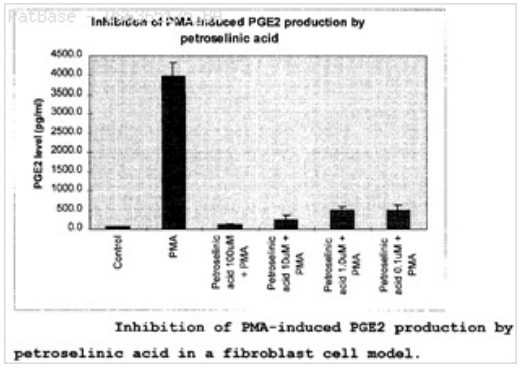
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JP2002053892 A2	20090617	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090616
JP2002053892 A2	20090818	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20090817
JP2002053892 A2	20091001	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2002053892 A2	20091007	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20091006
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JP2002053892 A2	20091015	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20091008
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JP4391673 B2	20120918	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
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JP4391673 B2	20140916	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4391673 B2	20150929	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4391673 B2	20160920	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4391673 B2	20200808	PEXP		Calculated Patent Term Expiry	
US2004062847 AA	20040401	LSPB	+	published / reissued	
US7056949 BB	20060606	LSGT	+	granted / extensions (spc, cpc, pte)	
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US7056949 BB	20060517	LSGT	PAT1	Patented Case	
US7056949 BB	20061003	LSRE	CC	CERTIFICATE OF CORRECTION	
US7056949 BB	20091104	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7056949 BB	20131106	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7056949 BB	20171123	LSFE	+MAFP	MAINTENANCE FEE	YEAR OF FEE PAYMENT : 12

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WO0211551 A2	20020214	LSPB	+	published / reissued	
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WO0211551 A3	20030206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10343742 COUNTRY OF REF DOCUMENT : US
WO0211551 A3	20030206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001954489 COUNTRY OF REF DOCUMENT : EP
WO0211551 A3	20030401	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 018166989 COUNTRY OF REF DOCUMENT : CN
WO0211551 A3	20030507	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001954489 COUNTRY OF REF DOCUMENT : EP

40) Family number: 28676277 (US6022896A)

Title: Petroselinic acid as an anti-irritant in compositions containing alpha-hydroxy acids

Abstract: Source: US6022896A [EN] Compositions containing alpha hydroxy acids and further containing petroselinic acid as an anti-irritant/anti-sting agent.



Inhibition of PMA-induced PGE2 production by petroselinic acid in a fibroblast cell model.

Classifications:
International (IPC 8-9): A01K67/027 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G3/00 A23G3/40 A23G9/32 A23L1/30 A61K31/19 A61K31/20 A61K31/23 A61K31/74 A61K47/00 A61K7/00 A61K7/40 A61K7/48 A61K8/00 A61K8/06 A61K8/19 A61K8/26 A61K8/30 A61K8/34 A61K8/36 A61K8/365 A61K8/37 A61K8/41 A61K8/44 A61K8/63 A61K8/67 A61K8/72 A61K8/891 A61K8/92 A61K8/97 A61P17/00 A61Q17/00 A61Q19/00 A61Q19/02 A61Q19/08 (Advanced/Invention); A61K8/00 A61K8/19 A61K8/30 A61K8/72 A61K8/92 A61P17/00 A61Q19/00 A61Q19/08 (Advanced/Non-invention); A01K67/027 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G3/00 A23G3/34 A23G9/32 A23L1/30 A61K31/185 A61K31/19 A61K31/20 A61K31/21 A61K31/74 A61K47/00 A61K7/48 A61K8/00 A61K8/04 A61K8/19 A61K8/30 A61K8/72 A61K8/92 A61K8/96 A61P17/00 A61Q17/00 A61Q19/00 A61Q19/02 A61Q19/08 (Core/Invention); A61K (Subclass/Invention)
International (IPC 1-7): A01K67/027 A23D7/00 A23D7/00 A23D7/015 A23D7/015 A23D9/00 A23D9/00 A23G9/02 A23G9/02 A23L1/30 A61K A61K 31/00 A61K31/19 A61K31/20 A61K31/23 A61K31/74 A61K35/78 A61K47/00 A61K7/00 A61K7/42 A61K7/48 A61P17/04
CPC: A61K8/365 A61Q17/00 Y10S514/844 A23L33/12 A23D9/00 A61Q19/007 A23G3/40 A23D7/001 A23D7/015 A23D9/007 A23D9/013 A23G9/327 A61K8/361 A61K2800/75 A61Q19/00 A61Q19/004 A61Q19/02 A61Q19/08
European: A23D7/00B A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G3/00 A23G3/00+D8 A23G3/40 A23G9/02 A23G9/02+D8 A23G9/32G A23L1/30C2 A61K7/48C4F A61K8/36 A61K8/365 A61K8/36C A61Q17/00 A61Q19/00 A61Q19/00K A61Q19/00P A61Q19/02 A61Q19/08 K61K800/75
US: 424/401 424/439 424/78.05 514/506 514/553 514/554 514/557 514/558 514/560 514/786 514/787 514/844

Family:

Publication number	Publication date	Application number	Application date
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AU199928364 A1	19991011	AU19990028364	19990308
AU199942597 A1	20000403	AU19990042597	19990505
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AU740627 B2	20011108	AU19990042597	19990505
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CZ20010886 A3	20010815	CZ20010000886	19990505
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JP2002524482 T2	20020806	JP20000569764T	19990505

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RU2217125 C2	20031127	RU20010109436	19990505
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TH50182 A	20020318	TH19991000788	19990311
TH53537 B	20170125	TH19991001618	19990513
TW550072 B	20030901	TW19990109091	19990531
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US6042841 A	20000328	US19990268284	19990315
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Priority:

EP19980310626 19981222	EP19980310627 19981222	EP19990204230 19991209
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EP19990908956 19990308	WO1999EP03234 19990505	US19980150841 19980910

Probable Assignee: CONOPCO INC D B A UNILEVER

Assignee(s): (std): CHESEBROUGH PONDS USA ; LODERS CROKLAAN BV ; LEVER HINDUSTAN LTD ; HINDUSTAN LEVER LTD ; UNILEVER HOME AND PERSONAL CARE ; UNILEVER PLC ; UNILEVER NV ; UNILEVER PATENT HOLDINGS ; UNILVEVER N V ; UNILEVER N V

Assignee(s): UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CONOPCO INC ; SANTHANAM UMA ; WEINKAUF RONNI LYNN ; PALANKER LAURA ROSE ; OTTEY KAREN ANGELA ; POWELL JONATHAN RICHARD ; WATKINSON ALLAN ; RAWLINGS ANTHONY VINCENT ; ROGERS JULIA SARAH ; UNILEVER HOME AND PERSONAL CARE USA ; UNILEVER PATENT HOLDINGS OLIVIER VAN NOORTLAAN ; UNILEVER HOME AND PERSONAL CARE USA DIVISION OF CO ; UNILEVER N V ROTTERDAM ; UNILEVER PLC LONDON ; UNILVEVER NV ; LODERS CROKLAAN B V ; CHESEBROUGH POND''S USA CO ; CHESEBROUGH POND'S USA CO ; CHESEBROUGH POND'S USA CO DIVISION OF CONOPCO INC ; JANUARIO THOMAS EUGENE ; GREEN MARTIN RICHARD ; IWATA KOICHI ; HU HENG LONG ; CONOPCO INC D B A UNILEVER ; HINDUSTAN LEVER LIMITED ; ALALUF SIMON ; BARRETT KAREN ELIZABETH ; BRINKER ANITA MARIA ; BRINKER ANITA MARIE ; CAIN FREDERICK WILLIAM ; CHESEBROUGH POND S U CO SA ; CHESEBROUGH POND S USA CO

Inventor(s): (std): ANITA MARIA BRINKER ; ANITA MARIE BRINKER ; ANTHONY VINCENT RAWLINGS ; BARRETT K E ; BARRETT KAREN ELIZABETH ; BRINKER A M ; BRINKER ANITA ; BRINKER ANITA MARIE ; BRINKER ANITA MARIJA ; BRINKER MARIA ; CAIN FREDERICK WILLIAM ; CAIN FREDERICK WILLIAM LODERS ; ALALUF SIMON ; ALLAN WATKINSON ; CAIN WILLIAM ; DZHEN JUEHRIO TOMAS JUDZHIN ; GREEN RICHARD ; HENG LONG HU ; HU HENG LONG ; JANUARIO EUGENE ; JANUARIO THOMAS EUGANE ; JONATHAN RICHARD POWELL ; JULIA SARAH ROGERS ; FREDERICK WILLIAM CAIN ; GREEN MARTIN RICHARD ; KAREN ANGELA OTTEY ; KAREN ELIZABETH BARRETT ; KOICHI IWATA ; LAURA ROSE PALANKER ; LAURA ROSE PLANKER ; MARTIN RICHARD GREEN ; OTTEY KAREN ANGELA ; PALANKER L R ; PALANKER LAURA ROSE ; PALANKER LAURA ROUZ ; PLANKER LAURA ROSE ; POWELL JONATHAN R ; POWELL JONATHAN RICHARD ; POWELL RICHARD ; RAWLINGS ANTHONY VINCENT ; RAWLINGS VINCENT ; ROGERS JULIA SARAH ; ROGERS SARAH ; RONNI LYNN WEINKAUF ; JANUARIO THOMAS EUGENE ; IWATA KOICHI ; BRINKER ANITA MARIA ; ALALUF S ; SANTHANAM UMA ; SANTHUNUM U ; SANTKHANAM UMA ; SIMON ALALUF ; THOMAS EUGENE JANUARIO ; UMA SANTHANAM ; VEJNKAUF RONNI LINN ; WATKINSON ALLAN ; WEINKAUF R L ; WEINKAUF RONNI ; WEINKAUF RONNI LYNN ; WEINKAUF RONNY LYNN

Inventor(s): WATKINSON ALLAN UNILEVER RES COLWORTH ; U SANTHUNUM ; SANTHANAM UMA WEINKAUF RONNI LYNN PALANKER LAURA ROSE JANUARIO THOMAS EUGENE BRINKER ANITA MARIA ; S ALALUF ; ROGERS JULIA SARAH UNILEVER RES COLWORTH ; RL WEINKAUF ; RAWLINGS ANTHONY VINCENT UNILEVER RES COLWORTH ; R L WEINKAUF ; POWELL JONATHAN RICHARD UNILEVER RES COLWORTH ; POWELL JONATHAN ; LR PALANKER ; L R PALANKER ; KE BARRETT ; GREEN MARTIN RICHARD UNILEVER RES COLWORTH ; K E BARRETT ; HU HENG LONG UNILEVER RES COLWORTH ; DZHEN'JUEHRIO TOMAS JUDZHIN ; AM BRINKER ; ALALUF SIMON UNILEVER RES COLWORTH ; CAIN FREDERICK WILLIAM LODERS CROKL ; CAIN FREDERICK WILLIAM LODERS CROKLAAN B V ; A M BRINKER

Agent(s): UNILEVER AUSTRALIA LTD; BERESKIN AND PARR LLP SENCRL SRL; BERESKIN AND PARR LLP; SARGENT; HUGOT ALAIN; HITOSHIO AKIO; FUSHIMI NAOYA; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR018357 AA	20011114	LSPB	+	published / reissued	
AR018357 AA	20080131	LSGT	+FG	GRANT, REGISTRATION	
AT305235 E	20051015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT305235 E	20060315	LSLE	-RER	CEASED AS TO	

				PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT305235 E	20191209	PEXP		Calculated Patent Term Expiry	
AU199928364 A1	19991011	LSPB	+	published / reissued	
AU199928364 A1	20001130	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
AU199942597 A1	20000403	LSPB	+	published / reissued	
AU199965347 A1	20000629	LSPB	+	published / reissued	
AU199965347 A1	20020829	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	
AU740627 B2	20011108	LSGT	+	granted / extensions (spc, cpc, pte)	
AU740627 B2	20020307	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU740627 B2	20190505	PEXP		Calculated Patent Term Expiry	
BRPI9913589 A	20010605	LSPB	+	published / reissued	
BRPI9913589 A	20090331	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9913589 A	20110607	LSRV	B09B	DECISION: REFUSAL	TEXT : INDEFIRO O PEDIDO DE ACORDO COM O(S) ARTIGO(S) 8O C/C 13 DA LPI.
BRPI9913589 A	20120306	LSAL	B12B	APPEAL: APPEAL AGAINST REFUSAL	
CA2322233 AA	20000829	LSPB	+	published / reissued	
CA2322233 AA	20040108	LSES	+EEER	EXAMINATION REQUEST	
CA2322233 C	20100202	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2322233 C	20190308	PEXP		Calculated Patent Term Expiry	
CA2343130 AA	20010308	LSPB	+	published / reissued	
CA2343130 AA	20040305	LSES	+EEER	EXAMINATION REQUEST	
CA2343130 C	20070731	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2343130 C	20190505	PEXP		Calculated Patent Term Expiry	
CL1999000989 A1	20000125	LSPB	+	published / reissued	
CL44665 B	20090305	LSGT	+	granted /	

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CL44665 B	20240305	PEXP		Calculated Patent Term Expiry	
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CN1205914 C	20050615	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1205914 C	20190505	PEXP		Calculated Patent Term Expiry	
CN1225237 C	20051102	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1225237 C	20051102	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1225237 C	20130116	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN1225237 C	20130116	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	PARTYTYPE : OWNER OWNER : UNILEVER N.V. OLDPARTY : FORMER NAME: UNILEVER NV
CN1225237 C	20190308	PEXP		Calculated Patent Term Expiry	
CN1293566 A	20010502	LSPB	+	published / reissued	
CN1293566 A	20010502	LSPB	+C06	PUBLICATION	
CN1325297 A	20011205	LSPB	+	published / reissued	
CN1325297 A	20011205	LSPB	+C06	PUBLICATION	
CZ20010886 A3	20010815	LSPB	+	published / reissued	
CZ293631 B6	20040616	LSGT	+	granted / extensions (spc, cpc, pte)	
CZ293631 B6	20130116	LSLE	-MM4A	Lapse of patent due to failure of payment of fees	EFFECTIVE DATE : 20120505
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DE69902473 D1	20030403	LSWD	-8332	NO LEGAL EFFECT FOR DE	
DE69902473 D1	20030410	LSRE	+8370	INDICATION OF LAPSE OF PATENT IS TO BE DELETED	
DE69902473 D1	20030904	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69902473 T2	20030703	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69902473 T2	20190505	PEXP		Calculated Patent Term Expiry	
DE69912254 D1	20041118	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69912254 T2	20040826	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69912254 T2	20190308	PEXP		Calculated Patent Term Expiry	
DE69927466 D1	20060921	LSOP	-8363	OPPOSITION AGAINST THE	

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DE69927466 D1	20091119	LSOP	+8366	RESTRICTED MAINTAINED AFTER OPPOSITION PROCEEDINGS	
DE69927466 T2	20060316	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69927466 T2	20191209	PEXP		Calculated Patent Term Expiry	
DE69927466 T3	20100211	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69927466 T3	20191209	PEXP		Calculated Patent Term Expiry	
EP1013178 A1	20000628	LSPB	+	published / reissued	
EP1013178 A1	20000816	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000616
EP1013178 A1	20010314	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP1013178 A1	20030416	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030304
EP1013178 A1	20041013	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP1013178 A1	20041013	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER PLC
EP1013178 A1	20041027	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP1013178 A1	20041027	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER PLC
EP1013178 A1	20050420	LSRE	RTI1	TITLE (CORRECTION)	TEXT : COSMETIC USE OF PETROSELINIC ACID
EP1013178 A1	20050831	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP1013178 A1	20050831	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER PLC
EP1013178 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 17
EP1013178 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151211 YEAR OF FEE PAYMENT : 17
EP1013178 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 17
EP1013178 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 17
EP1013178 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151214 YEAR OF FEE PAYMENT : 17
EP1013178 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 17

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EP1013178 B1	20050930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1013178 B1	20051019	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
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EP1013178 B1	20051209	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20051209
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EP1013178 B1	20051231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20051231
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EP1013178 B1	20060228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060228
EP1013178 B1	20060316	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2248962 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1013178 B1	20060413	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
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EP1013178 B1	20061002	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	PARTYTYPE : OPPONENT REF COUNTRY CODE : EP OPPONENT : NESTEC S.A. / L'OREAL
EP1013178 B1	20061004	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1013178 B1	20080723	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/30 20060101AFI20080613BHEP
EP1013178 B1	20191209	PEXP		Calculated Patent Term Expiry	
EP1013178 B2	20090916	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1013178 B2	20090916	LSRE	27A	MAINTAINED AS AMENDED	EFFECTIVE DATE : 20090916
EP1013178 B2	20091102	LSOP	NLR2	NL: DECISION OF OPPOSITION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20090916
EP1013178 B2	20100104	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : DC2A DATE OF REF DOCUMENT : 20091105 KIND CODE OF REF DOCUMENT : T5 DESIGNATED STATE(S) :
EP1013178 B2	20151221	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP1013178 B2	20161222	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP1013178 B2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161221 YEAR OF FEE PAYMENT : 18

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EP1013178 B2	20191209	PEXP		Calculated Patent Term Expiry	
EP1061896 A1	20001227	LSPB	+	published / reissued	
EP1061896 A1	20001227	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000818
EP1061896 A1	20021120	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20021008
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EP1061896 B1	20190308	PEXP		Calculated Patent Term Expiry	
EP1109527 A2	20010627	LSPB	+	published / reissued	
EP1109527 A2	20010627	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010307
EP1109527 A2	20011121	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20011011
EP1109527 A2	20020807	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
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ES2181501 T3	20030216	LSGT	+	granted / extensions (spc, cpc, pte)	
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ES2248962 T3	20060316	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2248962 T3	20191209	PEXP		Calculated Patent Term Expiry	
GB9805564 A0	19991020	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
ID27020 A	20010222	LSPB	+	published / reissued	
ID29403 A	20010830	LSPB	+	published / reissued	
IN192142 A	20040228	LSPB	+	published / reissued	
JP2002506800 T2	20020305	LSPB	+	published / reissued	
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JP2002506800 T2	20070926	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070925
JP2002506800 T2	20080206	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20080205
JP2002524482 T2	20020806	LSPB	+	published / reissued	
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JP2002524482 T2	20080305	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080304
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TH50182 A	20020318	LSPB	+	published / reissued	
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US6042841 A	19991004	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNILEVER HOME & PERSONAL CARE USA, DIVISION OF CON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ALALUF, SIMON; BRINKER, ANITA MARIE; GREEN, MARTIN RICHARD; AND OTHERS; REEL/FRAME:010290/0476; SIGNING DATES FROM 19990305 TO 19990929
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US6042841 A	20110923	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6042841 A	20190315	PEXP		Calculated Patent Term Expiry	
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US6365175 BA	20131101	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CONOPCO, INC., D/B/A UNILEVER, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNILEVER PATENT HOLDINGS B.V.; REEL/FRAME:031525/0834 EFFECTIVE DATE : 20131030
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WO0015179 A3	20010307	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999969017 COUNTRY OF REF DOCUMENT : EP

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WO0015179 A3	20060330	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020017003077 COUNTRY OF REF DOCUMENT : KR
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WO9947110 A1	20000811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999908956 COUNTRY OF REF DOCUMENT : EP
WO9947110 A1	20000829	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2322233 COUNTRY OF REF DOCUMENT : CA
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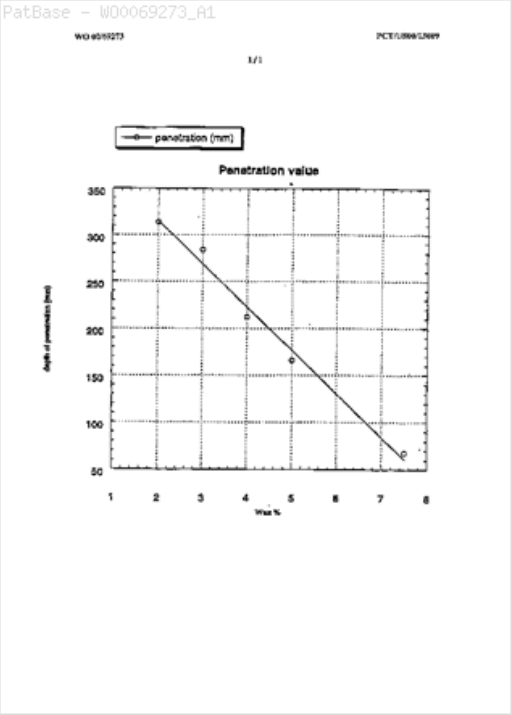
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ZA9902067 A	20001011	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9902067 A	20190314	PEXP		Calculated Patent Term Expiry	

41) Family number: 29449677 (US2004052921A)

Title: FAT COMPOSITIONS

Abstract: Source: US2004052921A [EN] Fat compositions that contain a vegetable oil and a plant-derived wax component are described. Food and cosmetic products containing such fat compositions also are described.

Classifications:
International (IPC 8-9): A23D7/005 A23D9/00 A23D9/007 A23G3/34 A23L1/18 A61K8/37 A61K8/92 A61Q1/06 A61Q1/08 A61Q19/00 (Advanced/Invention);
A23D9/007 A61K8/92 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D9/007 A61K7/00
CPC: A23L7/183 A61Q19/00 A23D7/0056 A23D7/013 A23D9/007 A23D9/013 A23G3/346 A23G2200/08 A61K8/922 A61Q1/06 A61Q1/08
European: A23D7/005S A23D7/01S A23D9/007 A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23L1/18C6 A61K8/92C A61Q1/06 A61Q1/08 A61Q19/00 K23G200/08 K61Q1/06 K61Q1/08
US: 252/1 252/1S 424/70.1 424/70.100S 424/725 424/725P 424/750 424/764 426/601 426/601P 426/601S 426/611 426/99



Family:

Publication number	Publication date	Application number	Application date
AR024006 AA	20020904	AR2000P102370	20000517
AU200050074 A1	20001205	AU20000050074	20000512
AU200050074 A5	20001205	AU20000050074	20000512
AU2005244561 AA	20060202	AU20050244561	20051215
AU2005244561 BB	20080828	AU20050244561	20051215
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BRPI0011269 A	20020521	BR2000PI11269	20000512
CA2373512 AA	20011119	CA20002373512	20000512
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US2004052921 AA	20040318	US20030436505	20030512
US2007190186 AA	20070816	US20070619099	20070102
US6582748 BA	20030624	US20000569887	20000512
US7157110 BB	20070102	US20030436505	20030512
US8227011 BB	20120724	US20070619099	20070102
WO0069273 A1	20001123	WO2000US13009	20000512

Priority:

AU20000050074 20000512 US19990134751P 19990518 US20070619099 20070102
WO2000US13009 20000512 US20030436505 20030512 US20000569887 20000512

Probable Assignee: CARGILL INC

Assignee(s): (std): CARGILL INC ; CARGILL INC A DELAWARE CORP ; LAMPERT DANIEL S ; LIU LINSEN ; LOH WILLIE H ; LOH WILLIE H T

Inventor(s): (std): LOH WILLIE H ; LOH WILLIE H T ; WILLIE H T LOH ; LINSEN LIU ; DANIEL S LAMPERT ; LAMPERT DANIEL S ; LIU LINSEN

Inventor(s): LOH WILLIE ; LAMPERT DANIEL

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SIM AND MCBURNEY; CARGILL INC; FISH AND RICHARDSON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AR024006 AA	20020904	LSPB	+	published / reissued	
AR024006 AA	20070917	LSGT	+FG	GRANT, REGISTRATION	
AU200050074 A1	20001205	LSPB	+	published / reissued	
AU2005244561 AA	20060202	LSPB	+	published / reissued	
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AU2005244561 BB	20090108	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
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AU782997 B2	20050915	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1178731 A1	20020213	LSPB	+	published / reissued	
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EP1178731 A4	20020911	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20020726
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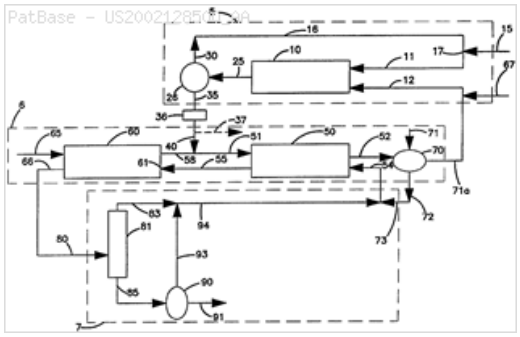
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US6582748 BA	20150720	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
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US6582748 BA	20171106	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6582748 BA	20200512	PEXP		Calculated Patent Term Expiry	
US7157110 BB	20070102	LSGT	+	granted / extensions (spc, cpc, pte)	
US7157110 BB	20061213	LSGT	PAT1	Patented Case	
US7157110 BB	20070410	LSRE	CC	CERTIFICATE OF CORRECTION	
US7157110 BB	20100603	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7157110 BB	20140604	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7157110 BB	20230816	PEXP		Calculated Patent Term Expiry (PTA 96 days and a terminal disclaimer has been filed)	
US8227011 BB	20120724	LSGT	+	granted / extensions (spc, cpc, pte)	
US8227011 BB	20120704	LSGT	PAT1	Patented Case	
US8227011 BB	20121030	LSRE	CC	CERTIFICATE OF CORRECTION	
US8227011 BB	20160106	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8227011 BB	20270102	PEXP		Calculated Patent Term Expiry	
WO0069273 A1	20001123	LSPB	+	published / reissued	
WO0069273 A1	20011119	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2373512 COUNTRY OF REF DOCUMENT : CA
WO0069273 A1	20011119	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2373512 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0069273 A1	20011119	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2001/011899 COUNTRY OF REF DOCUMENT : MX
WO0069273 A1	20011121	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000932339 COUNTRY OF REF DOCUMENT : EP
WO0069273 A1	20011122	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 50074/00 COUNTRY OF REF DOCUMENT : AU
WO0069273 A1	20020213	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000932339 COUNTRY OF REF DOCUMENT : EP
WO0069273 A1	20020314	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0069273 A1	20040217	LSNE	NENP	NON-ENTRY INTO THE	REF COUNTRY CODE : JP

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WO0069273 A1	20051201	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000932339 COUNTRY OF REF DOCUMENT : EP
WO0069273 A1	20060112	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 50074/00 COUNTRY OF REF DOCUMENT : AU

42) Family number: 30115632 (US2002128500A)

Title: METHOD FOR PREPARATION OF PURIFIED GLYCERIDES; AND, PRODUCTS

Abstract: Source: US2002128500A [EN] A method of preparing purified ester compositions is provided. The process can be utilized to isolate and purify monoglycerides and propylene glycol monoesters, to advantage. It can also be used to isolate preferred diester products. The invention also concerns equipment for conduct of the processes, provision of preferred food additives, and provision of preferred food industry compositions. The process generally involves use of liquid-liquid extractions, to advantage.



Classifications:
International (IPC 8-9): A21D2/16 A23D7/01 A23D9/013 A23D9/02 A23G1/00 A23G1/36 A23G9/32 A23G9/52 A23L1/00 A23L1/035 A23L1/0522 A23L1/30 A23P1/16 C07C67/58 C11B3/00 C11B7/00 (Advanced/Invention);
A21D2/00 A23D7/005 A23D9/007 A23G1/00 A23G1/30 A23G9/52 A23L1/00 A23L1/03 A23L1/0522 A23L1/30 A23P1/10 C07C67/00 C11B7/00 (Core/Invention)
International (IPC 1-7): A23D9/02 B01D47/00 C07C51/43 C11B1/10 C11B3/00 C11B7/00 C11C1/00 C11C3/04 F02M37/00 F02M69/02
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European: A21D2/16 A23D7/01S A23D9/013 A23G1/00 A23G1/00+D8 A23G1/00K A23G1/00K+D8 A23G1/36 A23G9/02 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/52 A23L1/00P16 A23L1/035 A23L1/0522B A23L1/30C2 A23P1/16 C07C67/58 C11B7/00B16 C11B7/00F K23G200/08
US: 426/417 426/418 426/490 426/601 426/663 554/10 554/169 554/175 554/195 554/199 554/199P 554/2.1 554/204 554/206 554/207 554/8 554/9

Family:

Publication number	Publication date	Application number	Application date
AT253625 E	20031115	AT19970914914T	19970307
AU199721995 A1	19971001	AU19970021995	19970307
AU725578 B2	20001012	AU19970021995	19970307
CA2248623 AA	19980909	CA19972248623	19970307
DE69726027 D1	20031211	DE19976026027	19970307
EP1021500 A1	20000726	EP19970914914	19970307
EP1021500 A4	20000726	EP19970914914	19970307
EP1021500 B1	20031105	EP19970914914	19970307
ID17253 A	19971211	ID19970000803	19970313
MY115531 A	20030731	MY19970001037	19970312
US2002128500 AA	20020912	US20010014151	20011109
US5859270 A	19990112	US19960614468	19960313
US5959128 A	19990928	US19970812018	19970306
US6153773 A	20001128	US19990343341	19990630
WO9733955 A1	19970918	WO1997US03608	19970307

Priority:

US19960614468 19960313 US19970812018 19970306 US19990343341 19990630
US20000724343 20001128 US20010014151 20011109 WO1997US03608 19970307

Probable Assignee: CARGILL INC

Assignee(s): (std): CARGILL INC

Assignee(s): KOLSTAD JEFFREY J ; TSOBANAKIS PARASKEVAS ; BENSON RICHARD D ; BLOOMER SCOTT D

Inventor(s): (std): BENSON D ; BENSON RICHARD D ; BLOOMER D ; BLOOMER SCOTT D ; KOLSTAD J ; KOLSTAD JEFFREY J ; KOLSTAD JEFFREY JOHN ; KOLSTADT JEFFREY J ; PARASKEVAS TSOBANAKIS ; TSOBANAKIS PARASKEVAS ; TSOBANAKIS PARIS

Inventor(s): RICHARD D BENSON ; SCOTT D BLOOMER ; JEFFREY J KOLSTAD

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOUDREAU GAGE DUBUC

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN YU

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT253625 E	20031115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT253625 E	20040515	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT253625 E	20170307	PEXP		Calculated Patent Term Expiry	

AU199721995 A1	19971001	LSPB	+	published / reissued	
AU725578 B2	20001012	LSGT	+	granted / extensions (spc, cpc, pte)	
AU725578 B2	20010208	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU725578 B2	20170307	PEXP		Calculated Patent Term Expiry	
CA2248623 AA	19980909	LSPB	+	published / reissued	
CA2248623 AA	20020226	LSES	+EEER	EXAMINATION REQUEST	
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DE69726027 D1	20040812	LSWD	-8332	NO LEGAL EFFECT FOR DE	
EP1021500 A1	20000726	LSPB	+	published / reissued	
EP1021500 A1	20000726	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19981012
EP1021500 A1	20000726	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19991222
EP1021500 A1	20020102	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20011120
EP1021500 A1	20031015	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : CARGILL, INCORPORATED
EP1021500 B1	20031105	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1021500 B1	20031231	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
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EP1021500 B1	20050331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050331
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MY115531 A	20030731	LSGT	+	granted / extensions (spc, cpc, pte)	
MY115531 A	20180731	PEXP		Calculated Patent Term Expiry	
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US2002128500 AA	20030505	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US5859270 A	19990112	LSGT	+	granted / extensions (spc, cpc, pte)	
US5859270 A	19960528	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INCORPORATED, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KOLSTAD, JEFFREY J.;

					BLOOMER, SCOTT D.; BENSON, RICHARD D.; AND OTHERS; REEL/FRAME:007985/0734; SIGNING DATES FROM 19960516 TO 19960520
US5859270 A	20001024	LSRE	CC	CERTIFICATE OF CORRECTION	
US5859270 A	20030113	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5859270 A	20030212	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5859270 A	20030311	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20030112
US5859270 A	20160313	PEXP		Calculated Patent Term Expiry	
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US5959128 A	20010522	LSRE	CC	CERTIFICATE OF CORRECTION	
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US5959128 A	20070328	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
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US6153773 A	20001109	LSGT	PAT1	Patented Case	
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WO9733955 A1	19980909	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2248623 COUNTRY OF REF DOCUMENT : CA
WO9733955 A1	19980909	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2248623 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9733955 A1	19981012	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1997914914 COUNTRY OF REF DOCUMENT : EP
WO9733955 A1	19981204	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 97532713 COUNTRY OF REF DOCUMENT : JP
WO9733955 A1	19990121	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
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WO9733955 A1	20031105	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1997914914 COUNTRY OF REF DOCUMENT : EP

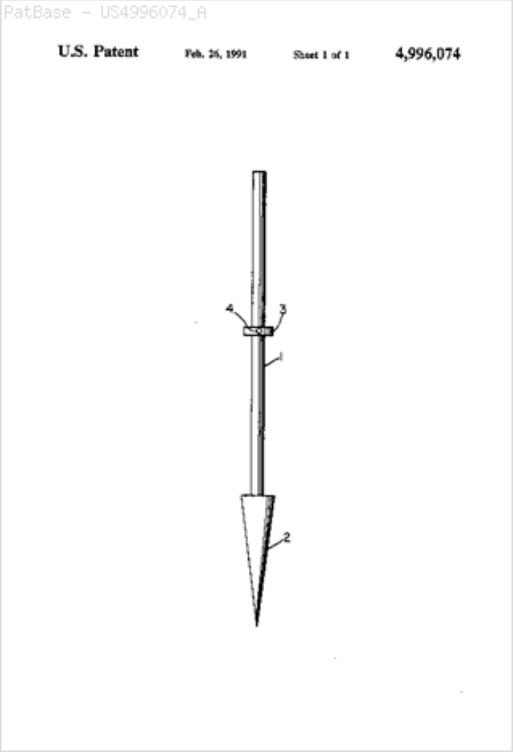
43) Family number: 3232588 (US4996074A)

Title: TAILORED BETA-PRIME STABLE TRIGLYCERIDE HARDSTOCK

Abstract: Source: US4996074A [EN] A stable beta-prime tailored triglyceride hardstock is disclosed which exhibits superior beta-prime stability and yields improved texture, stability, oil retention, and/or flavor display when incorporated into various food products. The beta-prime stable hardstock of the present invention comprises: (a) from about 45 percent to about 98 percent of 2-Stearoyldipalmitin (PSP) triglycerides: (b) from about 2 percent to about 55 percent, of 1-Palmitolydistearin (PSS) triglycerides; (c) less than about 7 percent of tripalmitin (PPP) triglycerides; (d) less than about 7 percent of tristearin (SSS) triglycerides; (e) less than about 3 percent of diglycerides; (f) less than about 10 percent of total PPP plus SSS triglycerides; and (g) less than about 10 percent of the fatty acids of the total triglycerides and diglycerides being unsaturated.

Classifications:

International (IPC 8-9): A23D9/00 A23D9/013 A23L1/00 A23L1/30 A23L1/307 A23L1/38 A23L25/10 A61K31/25 A61K38/00 A61K47/14 A61K47/44 A61K8/30 A61K8/37 A61K8/73 A61K8/92 A61K8/97 A61K9/00 A61Q19/00 C11B7/00 C11C3/00 C11C3/12 (Advanced/Invention);
A23L1/30 A23L1/307 A61K38/00 A61K47/14 A61K8/30 A61K8/92 C11B7/00 C11C3/00 (Advanced/Non-invention);
A23D9/00 A23D9/007 A23L1/30 A23L1/307 A23L1/36 A61K31/21 A61K38/00 A61K47/14 A61K47/44 A61K8/30 A61K8/72 A61K8/92 A61K8/96 A61K9/00 A61Q19/00 C11B7/00 C11C3/00 (Core/Invention);
C11B7/00 (Core/Non-invention)
International (IPC 1-7): A23D5/00 A23D9/00 A23D9/00 A23G3/00 A23L1/00 A23L1/035 A23L1/307 A23L1/35 A23L1/38 A61K31/25 A61K37/22 A61K38/00 A61K47/00 A61K47/14 A61K47/44 A61K7/00 A61K9/00 A61K9/06 C11B1/10 C11B7/00 C11C3/00 C11C3/02 C11C3/12
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US: 426/601 426/606 426/607 426/611 426/804



Family:

Publication number	Publication date	Application number	Application date
AR242627 A1	19930430	AR19890315438	19891114
AT104514 E	19940515	AT19890202775T	19891106
AU198944626 A1	19900531	AU19890044626	19891113
AU619057 B2	19920116	AU19890044626	19891113
BRPI8905796 A	19900612	BR1989PI05796	19891114
CA2002343 AA	19900514	CA19892002343	19891106
CA2002343 C	19940621	CA19892002343	19891106
DE68914786 D1	19940526	DE19896014786	19891106
DE68914786 T2	19940929	DE19896014786T	19891106
DK170812 B1	19960129	DK19890005692	19891114
DK569289 A	19900515	DK19890005692	19891114
DK569289 A0	19891114	DK19890005692	19891114
EP0369516 A2	19900523	EP19890202775	19891106
EP0369516 A3	19910612	EP19890202775	19891106
EP0369516 B1	19940420	EP19890202775	19891106
ES2063115 T3	19950101	ES19890202775T	19891106
HK1006129 A1	19990212	HK19980105322	19980615
IE62177 B	19941228	IE19890003652	19891114
IE893652 L	19900514	IE19890003652	19891114
JP2209999 A2	19900821	JP19890295991	19891114
JP2918584 B2	19990712	JP19890295991	19891114
KR0168040 B1	19981201	KR19890016489	19891114
KR100168040 B1	19981201	KR19890016489	19891114
KR19900007350 A	19900601	KR19890016489	19891114
MA21678 A1	19900701	MA19890021932	19891113
MX166248 B	19921224	MX19890018364	19891114
NZ231366 A	19910827	NZ19890231366	19891113
US4996074 A	19910226	US19880270314	19881114

Priority:

CA19892002343 19891106 EP19890202775 19891106 US19880270314 19881114

Probable Assignee: PROCTER AND GAMBLE OHIO BRANDS CO

Assignee(s): (std): PROCTER AND GAMBLE ; BRUCE PETER

Assignee(s): JM SMUCKER CO ; PETER BRUCE ; PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; PROCTER AND GAMBLE OHIO BRANDS CO ; SMUCKER FRUIT PROCESSING CO ; PROCTER AND GAMBLE CO THE ; PUROKUTAA ANDO GYANBURU CO ZA ; PROCTER AND GAMBLE COMPANY THE ; SEIDEN PAUL ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; WHITE ROBERT LEE

Inventor(s): (std): ROBAATO RII HOWAITO ; SEIDEN PAUL ; SEIDEN PUL ; WHITE ROBERT L ; POORU SEIDEN ; WHITE ROBERT LEE ; ROBERT LEE WHITE ; PAUL SEIDEN

Inventor(s): PUL SEIDEN ; HOORU SEIDEN ; WHITE ROBERT LEE CINCINNATI OHIO 45231 ; WHITE ROBERT LEE CINCINNATI OHIO 45231 US ; SEIDEN PAUL CINCINNATI OHIO 45208 ; SEIDEN PAUL CINCINNATI OHIO 45208 US

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR242627 A1	19930430	LSGT	+	granted / extensions (spc, cpc, pte)	
AR242627 A1	20091114	PEXP		Calculated Patent Term Expiry	
AT104514 E	19940515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT104514 E	19941115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT104514 E	20050815	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT104514 E	20091106	PEXP		Calculated Patent Term Expiry	
AU198944626 A1	19900531	LSPB	+	published / reissued	
AU619057 B2	19920116	LSGT	+	granted / extensions (spc, cpc, pte)	
AU619057 B2	20091113	PEXP		Calculated Patent Term Expiry	
BRPI8905796 A	19900612	LSPB	+	published / reissued	
BRPI8905796 A	19951212	LSWD	-FB19	GRANT PROCEDURE SUSPENDED (ART. 19)	
BRPI8905796 A	19981222	LSGT	+FF	DECISION: INTENTION TO GRANT	
BRPI8905796 A	19990727	LSGT	+FG9A	PATENT OR CERTIFICATE OF ADDITION GRANTED	
BRPI8905796 A	20121225	LSLE	-B21A	EXPIRY ACC. ART. 78, ITEM I OF IPL- EXPIRY OF THE TERM OF PROTECTION	TEXT : PATENTE EXTINTA EM 14/11/2009
CA2002343 AA	19900514	LSPB	+	published / reissued	
CA2002343 AA	19891201	LSES	+EEER	EXAMINATION REQUEST	
CA2002343 C	19940621	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2002343 C	20061106	LSLE	-MKLA	LAPSED	
CA2002343 C	20091106	PEXP		Calculated Patent Term Expiry	
DE68914786 D1	19950518	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE68914786 D1	20030227	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : THE PROCTER & GAMBLE OHIO BRANDS COMPANY, CINCINNA
DE68914786 D1	20050908	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE68914786 T2	19940929	LSGT	+	granted / extensions (spc, cpc, pte)	
DK170812 B1	19960129	LSGT	+	granted / extensions	

				(spc, cpc, pte)	
DK170812 B1	19960129	LSGT	+B1	PATENT GRANTED (LAW 1993)	
DK170812 B1	20050627	LSLE	-PBP	PATENT LAPSED	TEXT : DK
DK170812 B1	20091114	PEXP		Calculated Patent Term Expiry	
DK569289 A	19900515	LSPB	+	published / reissued	
EP0369516 A2	19900523	LSPB	+	published / reissued	
EP0369516 A3	19920129	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19911205
EP0369516 A3	19921021	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19920907
EP0369516 B1	19940420	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0369516 B1	19950101	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2063115 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0369516 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	REF COUNTRY CODE : EP TEXT : 89202775.6
EP0369516 B1	19950412	LSGT	+26N	NO OPPOSITION FILED	
EP0369516 B1	20021213	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20021213 YEAR OF FEE PAYMENT : 14
EP0369516 B1	20031130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20031130
EP0369516 B1	20040429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20040429 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20040430 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040503	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20040503 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040503	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20040503 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040504	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20040504 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040504	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20040504 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040512	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : LU PAYMENT DATE : 20040512 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040526	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20040526 YEAR OF FEE PAYMENT : 15

EP0369516 B1	20040531	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : THE *PROCTER & GAMBLE CY EFFECTIVE DATE : 20031130
EP0369516 B1	20040601	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20040601 YEAR OF FEE PAYMENT : 15
EP0369516 B1	20040615	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20040615 YEAR OF FEE PAYMENT : 15
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EP0369516 B1	20041106	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041106
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EP0369516 B1	20041107	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041107
EP0369516 B1	20041108	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041108
EP0369516 B1	20041130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041130
EP0369516 B1	20041130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041130
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EP0369516 B1	20050629	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-	REF COUNTRY CODE : EP EFFECTIVE DATE : 20041106

				PAYMENT OF RENEWAL FEE	
EP0369516 B1	20050705	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP
EP0369516 B1	20050715	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0369516 B1	20050729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050729
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EP0369516 B1	20050902	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0369516 B1	20051106	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20051106
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EP0369516 B1	20091106	PEXP		Calculated Patent Term Expiry	
ES2063115 T3	19950101	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2063115 T3	19950101	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 369516 COUNTRY OF REF DOCUMENT : ES
ES2063115 T3	20091106	PEXP		Calculated Patent Term Expiry	
HK1006129 A1	19990212	LSGT	+	granted / extensions (spc, cpc, pte)	
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HK1006129 A1	20060616	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20051106
HK1006129 A1	20180615	PEXP		Calculated Patent Term Expiry	
IE62177 B	19941228	LSGT	+	granted / extensions (spc, cpc, pte)	
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IE62177 B	20091114	PEXP		Calculated Patent Term Expiry	
JP2209999 A2	19900821	LSPB	+	published / reissued	
JP2918584 B2	19990712	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2918584 B2	20091114	PEXP		Calculated Patent Term Expiry	
KR0168040 B1	19981201	LSGT	+	granted / extensions (spc, cpc, pte)	
KR0168040 B1	19941114	LSES	A201	REQUEST FOR EXAMINATION	
KR0168040 B1	19971223	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR0168040 B1	19980630	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR0168040 B1	19981001	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR0168040 B1	20021001	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20021002 YEAR OF FEE PAYMENT : 5

KR0168040 B1	20031002	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR0168040 B1	20131201	PEXP		Calculated Patent Term Expiry	
KR100168040 B1	19981201	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100168040 B1	20131201	PEXP		Calculated Patent Term Expiry	
KR19900007350 A	19900601	LSPB	+	published / reissued	
MA21678 A1	19900701	LSPB	+	published / reissued	
MA21678 A1	20091113	PEXP		Calculated Patent Term Expiry	
MX166248 B	19921224	LSGT	+	granted / extensions (spc, cpc, pte)	
MX166248 B	20061224	PEXP		Calculated Patent Term Expiry	
NZ231366 A	19910827	LSPB	+	published / reissued	
NZ231366 A	20021025	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
US4996074 A	19910226	LSGT	+	granted / extensions (spc, cpc, pte)	
US4996074 A	19890508	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY, THE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:SEIDEN, PAUL; WHITE, ROBERT L.; REEL/FRAME:005150/0498 EFFECTIVE DATE : 19881110
US4996074 A	19901227	LSGT	PAT1	Patented Case	
US4996074 A	19930316	LSRE	CC	CERTIFICATE OF CORRECTION	
US4996074 A	19940808	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4996074 A	19980730	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4996074 A	20020726	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US4996074 A	20030515	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE OHIO BRANDS CO, OHIO OLDPARTY : MERGER; ASSIGNOR:PROCTER & GAMBLE COMPANY, THE; REEL/FRAME:014051/0040 EFFECTIVE DATE : 20020601
US4996074 A	20030519	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE OHIO BRANDS CO, THE, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PROCTER & GAMBLE COMPANY, THE; REEL/FRAME:014051/0036 EFFECTIVE DATE : 20030403
US4996074 A	20030602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SMUCKER FRUIT PROCESSING COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:J.M. SMUCKER COMPANY, THE; REEL/FRAME:014108/0880 EFFECTIVE DATE : 20021201
US4996074 A	20060831	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : J.M. SMUCKER COMPANY, THE, OHIO OLDPARTY : MERGER; ASSIGNOR:PROCTER & GAMBLE OHIO BRANDS COMPANY; REEL/FRAME:018279/0956 EFFECTIVE DATE : 20020601

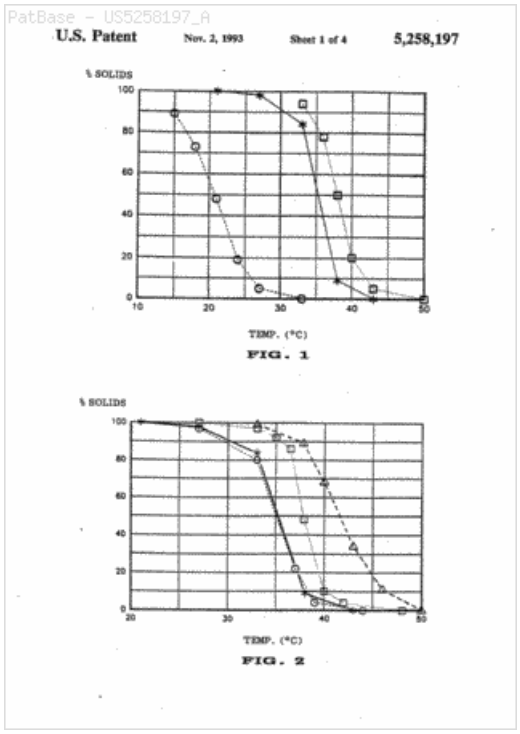
US4996074 A	20081114	PEXP	Calculated Patent Term Expiry

44) Family number: 33533207 (US5258197A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5258197A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00 A23G1/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/607 426/660 426/804



Family:

Publication number	Publication date	Application number	Application date
US5258197 A	19931102	US19910804140	19911206

Priority:

US19890410161 19890920 US19900624056 19901207 US19910804140 19911206
US19910665629 19910306 US19910732518 19910719

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC ; NABISCO BRANDS INC ; NABISCO BRANDS INC A CORP OF DELAWARE

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US5258197 A	19931102	LSGT	+	granted / extensions (spc, cpc, pte)	
US5258197 A	19920203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC. A CORP. OF DELAWARE, NEW J OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:WHEELER, EDWARD L.; D'AMELIA, RONALD P.; LEVEILLE, GILBERT A.; AND OTHERS; REEL/FRAME:006002/0234; SIGNING DATES FROM 19911218 TO 19920127
US5258197 A	19920327	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS

					INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A CORP. OF DE; REEL/FRAME:006066/0625 EFFECTIVE DATE : 19920325
US5258197 A	19931020	LSGT	PAT1	Patented Case	
US5258197 A	19941004	LSRE	CC	CERTIFICATE OF CORRECTION	
US5258197 A	19950607	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WHEELER, E. L.; D'AMELIA, R.P.; LEVEILLE, G.A.; AND OTHERS; REEL/FRAME:007528/0930; SIGNING DATES FROM 19920114 TO 19920127
US5258197 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5258197 A	19970507	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5258197 A	20010501	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5258197 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5258197 A	20050502	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5258197 A	20111206	PEXP		Calculated Patent Term Expiry	

45) Family number: 33533259 (US5378490A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5378490A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/606 426/607 426/804

Family:

Publication number	Publication date	Application number	Application date
US5378490 A	19950103	US19930083795	19930628

Priority:

US19890410161 19890920 US19900624056 19901207 US19930083795 19930628
US19910804140 19911206 US19910665629 19910306 US19910732518 19910719

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5378490 A	19950103	LSGT	+	granted / extensions (spc, cpc, pte)	
US5378490 A	19930628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., STATELESS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WHEELER, EDWARD L.; D'AMELIA, RONALD P.; LEVEILLE, GILBERT A.; AND OTHERS; REEL/FRAME:006666/0344; SIGNING DATES FROM 19920114 TO 19920127
US5378490 A	19941221	LSGT	PAT1	Patented Case	
US5378490 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5378490 A	19980702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5378490 A	20020702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5378490 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5378490 A	20060703	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5378490 A	20130628	PEXP		Calculated	

	Patent Term Expiry

46) Family number: 33533272 (US5407695A)

Title: LOW-PALMITIC, REDUCED-TRANS MARGARINES AND SHORTENINGS

Abstract: Source: US5407695A [EN] Margarines and shortenings are improved by employing a blend of 75 to 25 percent of an edible oil as a liquid oil component, and, as a hardstock component, 25 to 75 percent of a substantially fully hydrogenated oil bearing C16 to C24 acid residues, wherein at least about 15 percent of the C16 acid residues in the hydrogenated oil are replaced by the short acids acetic acid, propionic acid, butyric acid or a mixture of any of these acids. The levels of transunsaturated fatty acids and palmitic acid are reduced, and the products also have reduced caloric densities.

Classifications:

International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention);
A21D2/00 A23C11/00 A23C19/00 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/30 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/00 C11C3/00 (Core/Invention)

International (IPC 1-7): A23D7/00

CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23L9/22 A23L25/20 A23L33/115 A23L33/12

European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08

US: 426/603 426/607 426/804

Family:

Publication number	Publication date	Application number	Application date
US5407695 A	19950418	US19920850549	19920313

Priority:

US19890410161 19890920 US19900624056 19901207 US19920850549 19920313
US19910804140 19911206 US19910665629 19910306

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO INC A OF DELAWARE CORP ; NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; WHEELER EDWARD L

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US5407695 A	19950418	LSGT	+	granted / extensions (spc, cpc, pte)	
US5407695 A	19920427	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A CORPORATION OF DELAWARE, NEW JERS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:CHRYSAM, MICHAEL; OTTERBUIN, MICHAEL; WHEELER, EDWARD L.; AND OTHERS; REEL/FRAME:006096/0293; SIGNING DATES FROM 19910416 TO 19920416
US5407695 A	19950406	LSGT	PAT1	Patented Case	
US5407695 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5407695 A	19981019	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5407695 A	20020930	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5407695 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5407695 A	20061018	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5407695 A	20120418	PEXP		Calculated Patent Term	

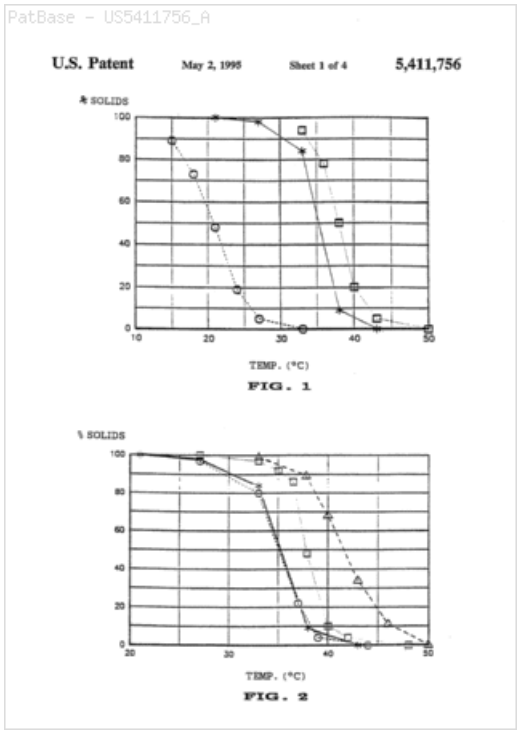
Expiry

47) Family number: 33533276 (US5411756A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5411756A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention); A21D2/00 A23C11/00 A23C19/00 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/30 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D7/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/601 426/607 426/804



Family:

Publication number	Publication date	Application number	Application date
US5411756 A	19950502	US19930175332	19931229

Priority:

US19890410161 19890920 US19900624056 19901207 US19930175332 19931229
US19930083795 19930628 US19910665629 19910306 US19910732518 19910719

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5411756 A	19950502	LSGT	+	granted / extensions (spc, cpc, pte)	
US5411756 A	19950421	LSGT	PAT1	Patented Case	
US5411756 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5411756 A	19981030	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

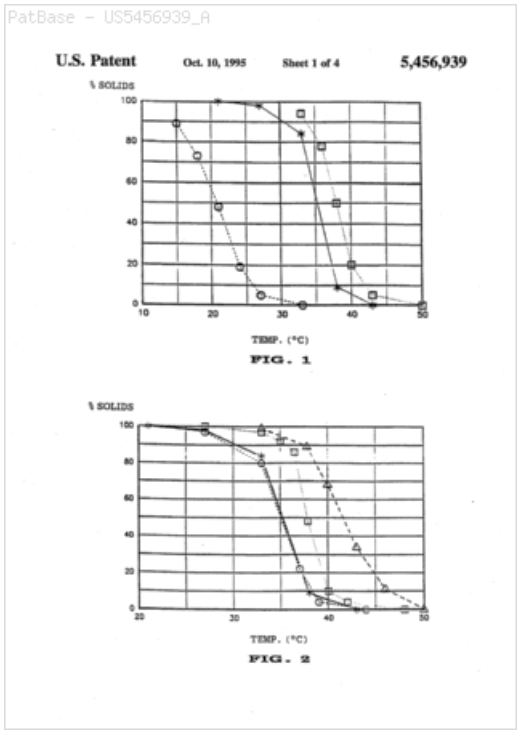
US5411756 A	20020930	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5411756 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5411756 A	20061102	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5411756 A	20131229	PEXP		Calculated Patent Term Expiry	

48) Family number: 33533298 (US5456939A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5456939A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23D9/00 A23G1/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/607 426/660 426/804



Family:

Publication number	Publication date	Application number	Application date
US5456939 A	19951010	US19930175020	19931229

Priority:

US19890410161 19890920 US19900624056 19901207 US19930083795 19930628
US19910804140 19911206 US19910665629 19910306 US19910732518 19910719
US19930175020 19931229

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5456939 A	19951010	LSGT	+	granted / extensions (spc, cpc, pte)	
US5456939 A	19950928	LSGT	PAT1	Patented Case	
US5456939 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5456939 A	19990409	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

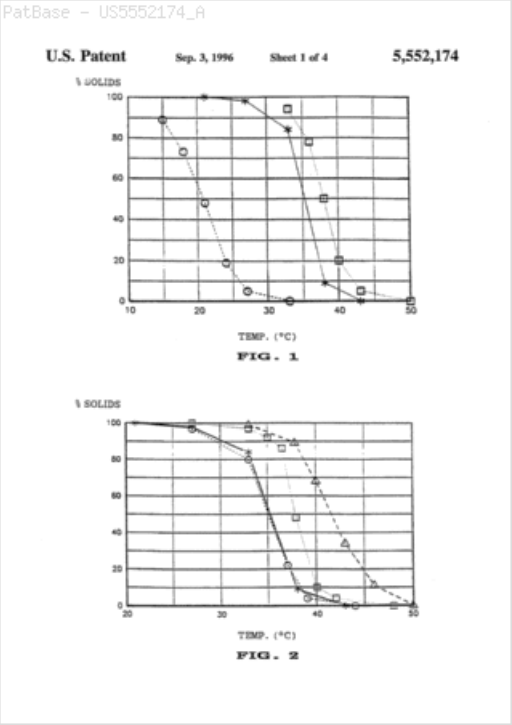
US5456939 A	20030409	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5456939 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5456939 A	20070410	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5456939 A	20131229	PEXP		Calculated Patent Term Expiry	

49) Family number: 33533357 (US5552174A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5552174A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23G1/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/607 426/804



Family:

Publication number	Publication date	Application number	Application date
US5552174 A	19960903	US19950476916	19950607

Priority:

US19890410161 19890920 US19900624056 19901207 US19930083795 19930628
US19910804140 19911206 US19910665629 19910306 US19910732518 19910719
US19950476916 19950607 US19930175020 19931229

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5552174 A	19960903	LSGT	+	granted / extensions (spc, cpc, pte)	
US5552174 A	19960729	LSGT	PAT1	Patented Case	
US5552174 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5552174 A	20000302	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

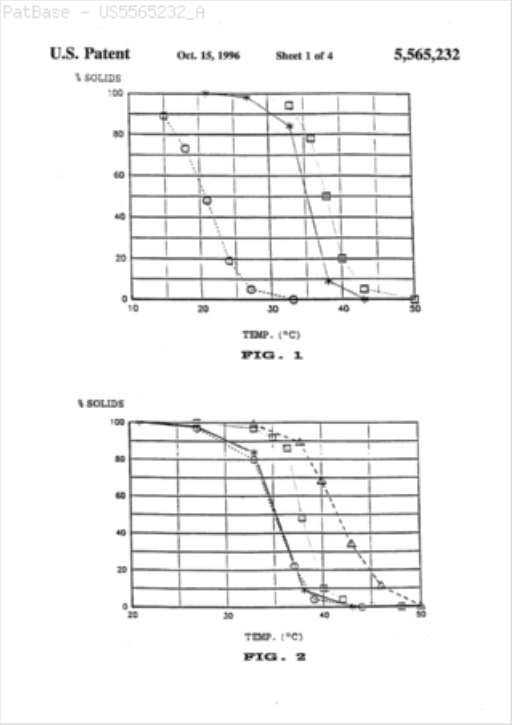
US5552174 A	20040303	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5552174 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5552174 A	20080303	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5552174 A	20150607	PEXP		Calculated Patent Term Expiry	

50) Family number: 33533363 (US5565232A)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: US5565232A [EN] Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23C11/04 A23C19/055 A23D7/00 A23D7/015 A23D7/02 A23D9/00 A23G1/00 A23G1/36 A23G1/38 A23G3/34 A23G9/32 A23G9/52 A23K1/18 A23L1/19 A23L1/30 A23L1/36 C07C69/30 C11C3/04 C11C3/08 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23G1/00
CPC: Y10S426/804 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D7/02 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10 A23K50/42 A23L9/22 A23L25/20 A23L33/115 A23L33/12
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D7/02 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08
US: 426/607 426/660 426/804



Family:

Publication number	Publication date	Application number	Application date
US5565232 A	19961015	US19950477009	19950607

Priority:

US19890410161 19890920 US19900624056 19901207 US19930083795 19930628
US19910804140 19911206 US19910665629 19910306 US19910732518 19910719
US19950477009 19950607 US19930175020 19931229

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN JR PETER S ; KLEMANN LAWRENCE P ; LEVEILLA GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5565232 A	19961015	LSGT	+	granted / extensions (spc, cpc, pte)	
US5565232 A	19961003	LSGT	PAT1	Patented Case	
US5565232 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5565232 A	20001010	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US5565232 A	20040415	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5565232 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810
US5565232 A	20080415	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5565232 A	20150607	PEXP		Calculated Patent Term Expiry	

51) Family number: 33534994 (EP0445278A4)

Title: REDUCED CALORIE TRIGLYCERIDES IN FOODS

Abstract: Source: EP0445278A1 [FR] Des triglycerides sont esterifies dans les positions 1 et 3 avec des acides gras satures a chaine longue tels que l'acide stearique et en position 2 avec un acide a chaine courte tel que l'acide acetique. Ces triglycerides produisent moins de calories que les triglycerides generalement presents dans les aliments. Des compositions alimentaires a plus faible teneur en calories que les compositions d'origine peuvent ainsi etre produites en remplacant une partie ou la totalite de la matiere grasse avec ce type de triglyceride. **Machine translation:** Triglycerides are esterified in positions 1 and 3 of saturated fatty acids with a long chain, such as stearic acid and the 2-position with a short chain acid, such as acetic acid. These triglycerides produce fewer calories than triglycerides usually present in food. Food compositions lower in calories than the original compositions can thus be produced by replacing a part or all of the fatty matter with this type of triglyceride.

Classifications:
International (IPC 8-9): A21D2/14 A21D2/16 A23C11/04 A23C17/00 A23C19/055 A23C19/084 A23C9/152 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G1/56 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23K1/16 A23K1/18 A23L1/03 A23L1/187 A23L1/19 A23L1/22 A23L1/24 A23L1/30 A23L1/307 C07C69/30 C11B1/00 C11C3/04 C11C3/10 C11C3/12 (Advanced/Invention);
A23C17/00 A23C9/152 A23D9/007 A23G1/30 A23G3/00 A23G9/44 A23K1/16 A23L1/03 A23L1/187 A23L1/22 A23L1/24 A23L1/307 C11B1/00 (Advanced/Non-invention);
A21D2/00 A23C11/00 A23C17/00 A23C19/00 A23C9/152 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23K1/16 A23K1/18 A23L1/03 A23L1/187 A23L1/19 A23L1/22 A23L1/24 A23L1/30 A23L1/307 C07C69/00 C11B1/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A21D2/14 A23C17/00 A23C19/084 A23C9/152 A23D7/00 A23D9/00 A23G1/00 A23G3/00 A23G9/02 A23K1/16 A23L1/03 A23L1/187 A23L1/22 A23L1/24 A23L1/307 C11B3/02
CPC: A23K50/42 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/38 A23G1/56 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/10 A23L9/22 A23L33/115
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G1/56 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C C07C69/30 C11C3/04 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AU199065090 A1	19910418	AU19900065090	19900918
EP0445278 A1	19910911	EP19900914841	19900918
EP0445278 A4	19920311	EP19900914841	19900918
JP4501812 T2	19920402	JP19900513787T	19900918

Priority:
US19890410161 19890920 WO1990US05306 19900918

Probable Assignee: NABISCO BRANDS INC

Assignee(s): (std): NABISCO BRANDS INC

Inventor(s): (std): AMELIA RONALD P D ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVENS PETER S JR ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; WHEELER EDWARD L

Inventor(s): PETER S GIVENS JR ; RONALD P D AMELIA ; MICHAEL S OTTERBURN ; LAWRENCE P KLEMANN ; JOHN W FINLEY ; GILBERT A LEVEILLE ; GIVENS PETER S ; EDWARD L WHEELER

Designated states: AT BE CH DE DK ES FR GB IT LI LU NL SE

Legal status (INPADOC)

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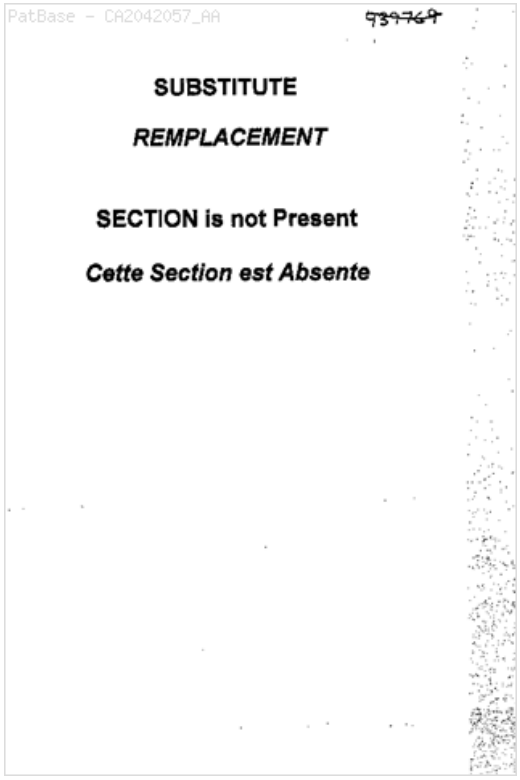
Patent	Date recorded	Event group	Code	Event	Details
AU199065090 A1	19910418	LSPB	+	published / reissued	
EP0445278 A1	19910911	LSPB	+	published / reissued	
EP0445278 A1	19910911	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19910523
EP0445278 A4	19920311	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19920117
EP0445278 A4	19920715	LSWD	-18W	APPLICATION WITHDRAWN	DATE APPLICATION WITHDRAWN : 19920526
JP4501812 T2	19920402	LSPB	+	published / reissued	

52) Family number: 33535275 (WO9103944A1)

Title: REDUCED CALORIE TRIGLYCERIDES IN FOODS

Abstract: Triglycerides are esterified at the 1- and 3- positions with saturated, long chain fatty acids, such as stearic, and at the 2- position with a short chain acid, such as acetic. These triglycerides provide fewer calories than those triglycerides commonly present in foods. Food compositions which are lower in calories than the original compositions can thus be produced by replacing some or all of the fat with this type of triglyceride.

Classifications:
International (IPC 8-9): A21D2/14 A21D2/16 A23C11/04 A23C17/00 A23C19/055 A23C19/084 A23C9/152 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G1/56 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23K1/16 A23K1/18 A23L1/03 A23L1/187 A23L1/19 A23L1/22 A23L1/24 A23L1/30 A23L1/307 C07C69/30 C11B1/00 C11C3/04 C11C3/10 C11C3/12 (Advanced/Invention);
A21D2/00 A23C11/00 A23C17/00 A23C19/00 A23C9/152 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23K1/16 A23K1/18 A23L1/03 A23L1/187 A23L1/19 A23L1/22 A23L1/24 A23L1/30 A23L1/307 C07C69/00 C11B1/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D9/00 A23L1/307 C11B3/02
CPC: A23K50/42 A23G1/36 A21D2/165 A23C11/04 A23C19/055 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/38 A23G1/56 A23G3/343 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C07C69/30 C11C3/04 C11C3/10 A23L9/22 A23L33/115
European: A21D2/16D A23C11/04 A23C19/055 A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G1/56 A23G3/34C A23G3/34E A23G9/32G A23G9/52 A23K1/18N2 A23L1/19B A23L1/30C C07C69/30 C11C3/04 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
CA2042057 AA	19910515	CA19902042057	19900918
WO9103944 A1	19910404	WO1990US05306	19900918

Priority:
US19890410161 19890920 WO1990US05306 19900918

Probable Assignee: NABISCO BRANDS INC
Assignee(s): (std): NABISCO BRANDS INC
Assignee(s): NABISCO INC ; WHEELER EDWARD L ; D AMELIA RONALD P ; GIVEN PETER S JR
Inventor(s): (std): D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN PETER S JR ; GIVENS PETER S JR ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; WHEELER EDWARD L
Inventor(s): GIVENS PETER S ; GIVEN PETER S
Agent(s): SMART AND BIGGAR
Designated states: AT AU BB BE BG BR CA CH DE DK ES FI FR GB HU IT JP KP KR LK LU MC MG MW NL NO RO SD SE SU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2042057 AA	19910515	LSPB	+	published / reissued	
CA2042057 AA	19930320	LSLE	-FZDE	DEAD	
WO9103944 A1	19910404	LSPB	+	published / reissued	
WO9103944 A1	19910515	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2042057 COUNTRY OF REF DOCUMENT : CA
WO9103944 A1	19910516	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1990914841 COUNTRY OF REF DOCUMENT : EP

WO9103944 A1	19910911	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1990914841 COUNTRY OF REF DOCUMENT : EP
WO9103944 A1	19920526	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1990914841 COUNTRY OF REF DOCUMENT : EP
WO9103944 A1	19920611	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642

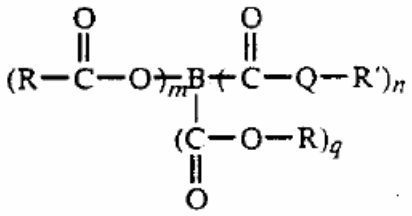
53) Family number: 4908177 (US5082683A)

Title: AMIDE/AMINE ESTER DERIVATIVES AS LOW CALORIE FAT MIMETICS

Abstract: Source: US5082683A [EN] Amide/amine ester derivatives of the general formula: where B is an aliphatic group having 2 to 6 carbons, each R is independently, an aliphatic group having 1 to 23 carbons, Q is -N(R')- or -O-(CH2)p-N(R')-, R' is -H, -R or -(CO)-R, independently, m=0 to 3, n=1 to 3, p=2 to 4, and q=0 to 3 comprise a new class of low calorie fat mimetics. Edible compositions incorporating and methods of using the new fat mimetics are disclosed.

Classifications:
International (IPC 8-9): A21D2/24 A23D7/01 A23D9/013 A23G1/00 A23G1/38 A23G1/56 A23G3/34 A23G9/52 A23L1/30 (Advanced/Invention); A21D2/00 A23D7/005 A23D9/007 A23G1/00 A23G1/30 A23G3/34 A23G9/52 A23L1/30 (Core/Invention)
International (IPC 1-7): A23D9/00
CPC: A23G1/56 A21D2/24 A23D7/013 A23D9/013 A23G1/38 A23G3/346 A23G9/52 A23G2200/08 A23L33/115
European: A21D2/24 A23D7/01S A23D9/013 A23G1/00K A23G1/00K+D8 A23G1/38 A23G1/56 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23L1/30C K23G200/08
US: 260/404 260/404.5 426/601 426/603 426/611 426/612 554/106 554/110 554/112 554/58 554/63

PatBase - US5082683_A



Family:

Publication number	Publication date	Application number	Application date
US5082683 A	19920121	US19900562109	19900801

Priority:
US19900562109 19900801

Probable Assignee: NABISCO TECHNOLOGY CO
Assignee(s): (std): NABISCO BRANDS INC
Assignee(s): NABISCO INC ; NABISCO INC A NJ CORP ; NABISCO TECHNOLOGY CO
Inventor(s): (std): FINLEY JOHN W ; KLEMANN LAWRENCE P ; YARGER RONALD G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5082683 A	19920121	LSGT	+	granted / extensions (spc, cpc, pte)	
US5082683 A	19900801	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:YARGER, RONALD G.; KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; REEL/FRAME:005453/0308 EFFECTIVE DATE : 19900730
US5082683 A	19920110	LSGT	PAT1	Patented Case	
US5082683 A	19920326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A NJ CORP., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A DE CORP.; REEL/FRAME:006059/0606 EFFECTIVE DATE : 19920323
US5082683 A	19950627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5082683 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5082683 A	20000123	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5082683 A	20000404	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY	EFFECTIVE DATE : 20000121

			MAINTENANCE FEE
US5082683 A	20100801	PEXP	Calculated Patent Term Expiry

54) Family number: 52153333 (US2012264832A)

Title: LOW INFLAMMATORY BLENDED OILS

Abstract: Source: US2012264832A [EN] A low inflammatory oil composition and method for supplementing feed, nutrition and diet systems with omega-3 to omega-6 balanced oils comprised of a synergistic blend of at least two oils. The composition further comprises a synergistic blend of long chain omega-3 oil as a means to further increase the nutritional value. The composition further provides an effective increase in reducing inflammation for therapeutic, and pharmacological treatment in addition to general nutrition and diet systems.

Classifications:

International (IPC 8-9): A21D2/16 A23C19/076 A23C19/09 A23C9/123 A23D7/00 A23D9/00 A23D9/06 A23G9/32 A23L1/24 A23L1/27 A23L1/29 A23L1/30 A23L1/302 A23L1/38 A23L1/39 A23L2/02 A23L2/38 A23L2/52 A23L23/00 A23L25/10 A23L27/60 A23L33/00 A23L33/10 A23L33/115 A23L33/12 A61K31/185 A61K31/20 A61K31/202 A61K36/00 A61K36/55 A61K36/889 A61K47/12 A61K47/14 A61K47/22 A61K47/36 A61P29/00 C11B5/00 (Advanced/Invention)

CPC: A61K45/06 A61K36/185 A61K36/48 A61K36/537 A61K36/55 A61K36/88 A61K36/889 A23D7/0053 A23D7/06 A23D9/00 A23L2/68 A23D7/003 A23D7/011 A23V2002/00 A23L1/3008 A23L2/02 A21D2/165 A23G9/327 A23D7/001 A23C19/0904 A23C19/076 A23C9/123 A61K31/201 A61K31/355 A21D2/16 A23L23/00 A23L25/10 A23L27/60 A23L33/10 A23L33/105 A23L33/115 A23L33/15 A23D9/06 A61K47/22 C11B5/0035 C11B5/0071 A23L29/275 C11B5/0007 A61K31/202 A23L33/11 A23L7/109 A23L7/117 A23L9/10 A23L11/05 A23L13/50 A23L15/20 A23L19/09 A23L19/18 A23L21/10 A23L27/63 A23L33/12

European: A23L1/056 A23L1/24 A23L1/30 A23L1/302 A23L1/30B A23L1/30C A23L1/30C2 A23L1/38 A23L1/39 A23L2/68

US: 424/725 424/727 424/768 426/540 426/541 426/546 426/547 426/590 426/599 426/601 426/607 426/72 514/560 514/777 514/784

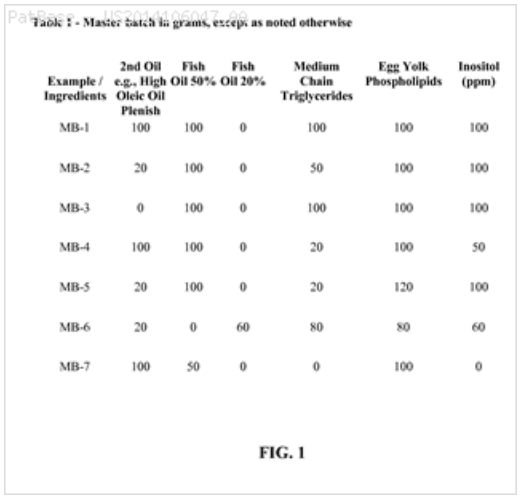


Table 1 - Master batch in grams, except as noted otherwise

Example / Ingredients	2nd Oil e.g., High Oleic Oil Plenish	Fish Oil 50%	Fish Oil 20%	Medium Chain Triglycerides	Egg Yolk Phospholipids	Inositol (ppm)
MB-1	100	100	0	100	100	100
MB-2	20	100	0	50	100	100
MB-3	0	100	0	100	100	100
MB-4	100	100	0	20	100	50
MB-5	20	100	0	20	120	100
MB-6	20	0	60	80	80	60
MB-7	100	50	0	0	100	0

FIG. 1

Family:

Publication number	Publication date	Application number	Application date
CA2857372 AA	20131017	CA20122857372	20120417
EP2699108 A2	20140226	EP20120773810	20120417
EP2699108 A4	20141105	EP20120773810	20120417
US2012264832 AA	20121018	US20120428033	20120323
US2014106047 AA	20140417	US20130055619	20131016
US2014371315 AA	20141218	US20140288090	20140527
US2016100616 AA	20160414	US20150871541	20150930
US8691293 BB	20140408	US20120428033	20120323
WO12145119 A2	20121026	WO2012US30232	20120323
WO12145119 A3	20121227	WO2012US30232	20120323
WO12145339 A2	20121026	WO2012US33973	20120417
WO12145339 A3	20130328	WO2012US33973	20120417

Priority:

US20110088417 20110417 US20110632827P 20110417 US20120428033 20120323
US20130055619 20131016 US20140288090 20140527 US20150871541 20150930
WO2012US33973 20120417

Probable Assignee: OMEGA FOODS LLC

Assignee(s): (std): ENVIVA FOODS LLC ; GURIN MICHAEL ; GURIN MICHAEL H ; KONOPACKI ANDREW G ; OMEGA FOODS LLC

Assignee(s): OMEGA FOODS LLC18700 ROCKY COURTDENMARKWI54208US ; ENVIVA FOODS INC ; INVESTORS COMMUNITY BANK

Inventor(s): (std): GURIN MICHAEL ; GURIN MICHAEL H ; KONOPACKI ANDREW G

Inventor(s): KONOPACKI ANDREW GUS ; GURIN MICHAEL HUS

Agent(s): BLAKE CASSELS AND GRAYDON LLP; MICHALSKI HUETTERMANN AND PARTNER PATENTANWAELTE; ERIC J; ROSENBAUM IP; DAVID G; GURIN MICHAEL; ROSENBAUM DAVID G ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2857372 AA	20131017	LSPB	+	published / reissued	
CA2857372 AA	20170421	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20170411
EP2699108 A2	20140226	LSPB	+	published / reissued	

EP2699108 A2	20140226	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20131116
EP2699108 A2	20140416	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : OMEGA FOODS, LLC
EP2699108 A4	20141105	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20141006
EP2699108 A4	20141105	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/24 20060101ALI20140929BHEP
EP2699108 A4	20141105	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/302 20060101ALI20140929BHEP
EP2699108 A4	20141105	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/29 20060101AFI20140929BHEP
EP2699108 A4	20141105	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/30 20060101ALI20140929BHEP
EP2699108 A4	20141105	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/39 20060101ALI20140929BHEP
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EP2699108 A4	20150506	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20150402
US2012264832 AA	20121018	LSPB	+	published / reissued	
US2014106047 AA	20140417	LSPB	+	published / reissued	
US2014106047 AA	20140411	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMEGA FOODS LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GURIN, MICHAEL H.; KONOPACKI, ANDREW G.; REEL/FRAME:032657/0129 EFFECTIVE DATE : 20140411
US2014106047 AA	20150616	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVESTORS COMMUNITY BANK, WISCONSIN OLDPARTY : NOTICE OF PATENT AND TRADEMARK SECURITY AGREEMENT; ASSIGNOR:OMEGA FOODS, LLC; REEL/FRAME:035921/0036 EFFECTIVE DATE : 20150604
US2014106047 AA	20151216	LSES	NFA1	Non Final Action Mailed	
US2014371315 AA	20141218	LSPB	+	published / reissued	
US2014371315 AA	20140527	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMEGA FOODS, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GURIN, MICHAEL H.; KONOPACKI, ANDREW G.; REEL/FRAME:032969/0357 EFFECTIVE DATE : 20140411
US2014371315 AA	20150616	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVESTORS COMMUNITY BANK, WISCONSIN OLDPARTY : NOTICE OF PATENT AND TRADEMARK SECURITY AGREEMENT; ASSIGNOR:OMEGA FOODS, LLC; REEL/FRAME:035921/0036 EFFECTIVE DATE : 20150604
US2014371315 AA	20180117	LSES	ADV2	Advisory Action Counted, Not	

				Yet Mailed	
US2016100616 AA	20160414	LSPB	+	published / reissued	
US2016100616 AA	20151221	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMEGA FOODS, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GURIN, MICHAEL H.; KONOPACKI, ANDREW G.; REEL/FRAME:037339/0633 EFFECTIVE DATE : 20140411
US2016100616 AA	20171030	LSES	NFA1	Non Final Action Mailed	
US8691293 BB	20140408	LSGT	+	granted / extensions (spc, cpc, pte)	
US8691293 BB	20130227	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ENVIVA FOODS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GURIN, MICHAEL H.; REEL/FRAME:029889/0423 EFFECTIVE DATE : 20130130
US8691293 BB	20140319	LSGT	PAT1	Patented Case	
US8691293 BB	20140411	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OMEGA FOODS, LLC, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ENVIVA FOODS, LLC; REEL/FRAME:032658/0459 EFFECTIVE DATE : 20130201
US8691293 BB	20150616	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVESTORS COMMUNITY BANK, WISCONSIN OLDPARTY : NOTICE OF PATENT AND TRADEMARK SECURITY AGREEMENT; ASSIGNOR:OMEGA FOODS, LLC; REEL/FRAME:035921/0036 EFFECTIVE DATE : 20150604
US8691293 BB	20171010	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8691293 BB	20320323	PEXP		Calculated Patent Term Expiry	
WO12145119 A2	20121026	LSPB	+	published / reissued	
WO12145119 A3	20131017	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12145119 A3	20140521	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12774159 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO12145339 A2	20121026	LSPB	+	published / reissued	
WO12145339 A3	20131017	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2857372 COUNTRY OF REF DOCUMENT : CA
WO12145339 A3	20131017	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

55) Family number: 11832185 (US6117475A)

Title: FAT BASED FOOD PRODUCTS COMPRISING STEROLS

Abstract: Source: US6117475A [EN] The invention concerns a fat based food product comprising natural fat components which have a blood cholesterol lowering effect in amounts sufficient to obtain a blood cholesterol lowering effect, wherein the fat comprises at least 1 percent of a sterol composition which comprises sterols of which at least 40 percent is esterified with fatty acid esters.

Classifications:
International (IPC 8-9): A23D7/00 A23D7/005 A23D7/01 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G3/02 A23G3/34 A23G9/42 A23G9/52 A23L1/24 A23L1/30 A61K31/231 A61K31/232 A61K31/56 A61K31/57 A61K45/06 (Advanced/Invention); A23D7/00 A23D7/005 A23D7/015 A23D9/00 A23D9/007 A23G3/02 A23G3/34 A23G9/32 A23G9/52 A23L1/24 A23L1/30 A61K31/21 A61K31/56 A61K31/57 A61K45/00 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D7/005 A23D7/015 A23D7/02 A23D9/00 A23D9/007 A23D9/02 A23G9/02 A23L1/24
CPC: A23L27/60 A23L33/11 A23L33/12 A61K31/56 A23D7/0056 A23D7/013 A23D7/015 A23D9/007 A23D9/013 A23G3/0205 A23G3/346 A23G9/52 A23G2200/00 A23G2200/08 A61K31/231 A61K31/232 A61K31/57 A61K45/06
European: A23D7/005S A23D7/015 A23D7/01S A23D9/007 A23D9/013 A23G3/00K A23G3/00K+D A23G3/00K+D8 A23G3/02K A23G3/34E A23G9/02K A23G9/02K+D A23G9/02K+D8 A23G9/52 A23L1/24 A23L1/30B2 A23L1/30C2 A61K31/231 A61K31/232 A61K31/56 A61K31/57 A61K45/06 K23G200/00 K23G200/08
US: 426/601 426/611 552/544

Family:

Publication number	Publication date	Application number	Application date
BRPI9803195 A	20000111	BR1998PI03195	19980820
CA2245483 AA	19990222	CA19982245483	19980821
CA2245483 C	20041228	CA19982245483	19980821
DE69824501 D1	20040722	DE19986024501	19980731
DE69824501 T2	20041104	DE19986024501T	19980731
DE69836356 D1	20061214	DE19986036356	19980731
DE69836356 T2	20071011	DE19986036356T	19980731
DK0898896 T3	20041018	DK19980202587T	19980731
DK1440619 T3	20070108	DK19980075960T	19980731
DK1440619 T3	20070108	DK20040075960T	19980731
EP0898896 A1	19990303	EP19980202587	19980731
EP0898896 B1	20040616	EP19980202587	19980731
EP1440619 A1	20040728	EP20040075960	19980731
EP1440619 B1	20061102	EP20040075960	19980731
ES2222553 T3	20050201	ES19980202587T	19980731
JP11127779 A2	19990518	JP19980237031	19980824
US6117475 A	20000912	US19980135719	19980818
ZA9807534 A	20000221	ZA19980007534	19980820

Priority:

EP19970202595 19970822 EP19980075960 19980731 EP20040075960 19980731
EP19980202587 19980731

Probable Assignee: LIPTON DIVISON OF CONOPCO INC

Assignee(s): (std): AMERONGEN MARNIX P VAN ; LIEVENSE LOURUS CORNELIS ; LIPTON DIVISION OF CONOPCO INC ; UNILEVER NV ; UNILEVER PLC

Assignee(s): LIPTON DIVISON OF CONOPCO INC ; UNILEVER N V ; UNILEVER N V ROTTERDAM

Inventor(s): (std): AMERONGEN MARNIX P VAN ; LIEVENSE LOURUS CORNELIS ; VAN AMERONGEN MARNIX P

Inventor(s): LOURUS CORNELIS LIEVENSE ; MARNIX P VAN AMERONGEN

Designated states: BE DE DK ES FR GB IE IT NL SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BRPI9803195 A	20000111	LSPB	+	published / reissued	
BRPI9803195 A	20071204	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9803195 A	20080826	LSRV	B09B	DECISION: REFUSAL	TEXT : DE ACORDO COM O ART. 36 DA LPI (LEI 9279/96) § 2O, O PEDIDO VOLTA A EXAME SENDO CONSIDERADO NAO PATENTEAVEL PELAS RAZOES EXPOSTAS NO PARECER TECNICO ANTERIOR.
CA2245483 AA	19990222	LSPB	+	published / reissued	
CA2245483 AA	20010131	LSES	+EER	EXAMINATION REQUEST	

CA2245483 C	20041228	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2245483 C	20080821	LSLE	-MKLA	LAPSED	
CA2245483 C	20180821	PEXP		Calculated Patent Term Expiry	
DE69824501 D1	20050609	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE69824501 D1	20080103	LSRV	-8331	COMPLETE REVOCATION	
DE69824501 T2	20041104	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69824501 T2	20180731	PEXP		Calculated Patent Term Expiry	
DE69836356 D1	20071129	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE69836356 D1	20080515	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69836356 T2	20071011	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69836356 T2	20180731	PEXP		Calculated Patent Term Expiry	
DK0898896 T3	20041018	LSGT	+	granted / extensions (spc, cpc, pte)	
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DK1440619 T3	20070108	LSGT	+	granted / extensions (spc, cpc, pte)	
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DK1440619 T3	20180731	PEXP		Calculated Patent Term Expiry	
DK1440619 T3	20180731	PEXP		Calculated Patent Term Expiry	
EP0898896 A1	19990303	LSPB	+	published / reissued	
EP0898896 A1	19990811	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP0898896 A1	19990811	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : UNILEVER PLC
EP0898896 A1	19991117	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : BE DE DK ES FR GB IE IT NL SE
EP0898896 A1	19991229	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19990218
EP0898896 A1	20021106	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20020919
EP0898896 A1	20040616	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20040616
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EP0898896 A1	20040728	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
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EP0898896 A1	20050504	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : MCNEIL NUTRITIONALS, LLC EFFECTIVE DATE : 20050314
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EP0898896 A1	20071121	LSRV	-GBPR	GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING THE UK AS CONTRACTING STATE	REF COUNTRY CODE : EP TEXT : 20070712
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EP0898896 B1	20180731	PEXP		Calculated Patent Term Expiry	

EP1440619 A1	20040728	LSPB	+	published / reissued	
EP1440619 A1	20040728	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20040329
EP1440619 A1	20050420	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20050303
EP1440619 A1	20050420	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : SE
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EP1440619 B1	20061102	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061102
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EP1440619 B1	20061102	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23G 9/42 20060101ALI20060927BHEP
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EP1440619 B1	20061129	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1440619 B1	20070202	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20070202
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					EFFECTIVE DATE : 20070725
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EP1440619 B1	20080326	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20070731
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EP1440619 B1	20090610	LSRE	+27C	TERMINATION OF OPPOSITION PROCEDURE	EFFECTIVE DATE : 20090202
EP1440619 B1	20180731	PEXP		Calculated Patent Term Expiry	
ES2222553 T3	20050201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2222553 T3	20180731	PEXP		Calculated Patent Term Expiry	
JP11127779 A2	19990518	LSPB	+	published / reissued	
JP11127779 A2	20050802	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050801
JP11127779 A2	20080625	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080624
JP11127779 A2	20081119	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20081118

US6117475 A	20000912	LSGT	+	granted / extensions (spc, cpc, pte)	
US6117475 A	19990107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIPTON, DIVISON OF CONOPCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VAN AMERONGEN, MARNIX P.; LIEVENSE, LOURUS CORNELIS; REEL/FRAME:009694/0245; SIGNING DATES FROM 19980805 TO 19981102
US6117475 A	20040312	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6117475 A	20080912	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6117475 A	20081013	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6117475 A	20081104	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20080912
US6117475 A	20180818	PEXP		Calculated Patent Term Expiry	
ZA9807534 A	20000221	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9807534 A	20180819	PEXP		Calculated Patent Term Expiry	

56) Family number: 11856792 (US6123979A)

Title: WAX ESTER COMPOSITIONS

Abstract: Source: US6123979A [EN] Blends of wax-esters with beneficial health properties comprise:>/= two different wax-esters in amounts of 5-95 percent and each having m.pt -10 DEG C. to 80 DEG C. blend displaying m.pt: 15 to 45 percent while>80 wt percent of wax-esters in blend have m.pt 20 to 60 DEG C.; wax-esters derived from linear alcohols and linear carboxyl acids either of them having>/=8 C-atoms.

Classifications:
International (IPC 8-9): A21D2/16 A23C19/093 A23D7/01 A23D9/013 A23G3/34 A23G9/52 A23L1/24 A23L1/30 A23L1/39 A23L23/00 A23L27/60 A23L33/12 C11C3/00 C12P7/64 (Advanced/Invention);
A21D2/00 A23C19/00 A23D7/005 A23D9/007 A23G3/34 A23G9/52 A23L1/24 A23L1/30 A23L1/39 C11C3/00 C12P7/64 (Core/Invention)
International (IPC 1-7): A21D2/16 A23C19/00 A23D7/00 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23G3/00 A23G9/00 A23L1/30 C12P7/64
CPC: A23L23/00 A23L27/60 A23L33/12 A23G3/346 A21D2/16 A23C19/093 A23D7/013 A23D9/013 A23G9/52 A23G2200/08 C11C3/003 C12P7/6454 C12P7/6472
European: A21D2/16 A23C19/093 A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23L1/24 A23L1/30C2 A23L1/39 C11C3/00B C12P7/64E2B C12P7/64E2F K23G200/08
US: 426/601 426/611 554/223 554/224

Family:

Publication number	Publication date	Application number	Application date
CA2249508 AA	19990424	CA19982249508	19981001
EP0910955 A2	19990428	EP19980203168	19980922
EP0910955 A3	20000322	EP19980203168	19980922
US6123979 A	20000926	US19980177381	19981023

Priority:
CA19982249508 19981001 EP19970308500 19971024 EP19980203168 19980922

Probable Assignee: LC USA LLC
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Inventor(s): (std): HEBPURN PAUL ; HEPBURN PAUL ; QUINLAN PAUL THOMAS ; SMITH KEVIN WARREN ; VAN DER WIELEN REGINALDUS PETR ; WATTS JAMES VINCENT ; WIELEN REGINALDUS PETR VAN D
Inventor(s): WIELEN REGINALDUS PETRUS J VAN D ; VAN DER WIELEN REGINALDUS PETRUS J
Agent(s): BERESKIN AND PARR
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2249508 AA	19990424	LSPB	+	published / reissued	
CA2249508 AA	20041001	LSLE	-FZDE	DEAD	
EP0910955 A2	19990428	LSPB	+	published / reissued	
EP0910955 A2	20000308	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7A 23D 9/00 A, 7A 23D 7/00 B, 7A 23L 1/30 B, 7A 23G 3/00 B, 7A 23G 9/00 B, 7A 23C 19/00 B, 7A 21D 2/16 B, 7C 12P 7/64 B, 7A 23G 1/00 B
EP0910955 A3	20000419	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000216
EP0910955 A3	20001129	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB IT
EP0910955 A3	20020515	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20020402
EP0910955 A3	20030709	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : LODERS CROKLAAN B.V.
EP0910955 A3	20030910	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : LODERS CROKLAAN B.V.
EP0910955 A3	20051130	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20050401

US6123979 A	20000926	LSGT	+	granted / extensions (spc, cpc, pte)	
US6123979 A	19981203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNILEVER PATENT HOLDINGS BV, NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HEPBURN, PAUL; QUINLAN, PAUL THOMAS; SMITH, KEVIN WARREN; AND OTHERS; REEL/FRAME:009632/0871; SIGNING DATES FROM 19980922 TO 19981005
US6123979 A	20000908	LSGT	PAT1	Patented Case	
US6123979 A	20030905	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LC USA LLC, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNILEVER PATENT HOLDING B.V.; REEL/FRAME:014466/0202 EFFECTIVE DATE : 20030722
US6123979 A	20040315	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LODERS CROKLAAN USA LLC, ILLINOIS OLDPARTY : CHANGE OF NAME; ASSIGNOR:LC USA LLC; REEL/FRAME:014428/0164 EFFECTIVE DATE : 20021224
US6123979 A	20040927	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6123979 A	20041123	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20040926
US6123979 A	20181023	PEXP		Calculated Patent Term Expiry	

57) Family number: 20239247 (US6346289B)

Title: FAT SOLIDIFYING AGENT, FATS, AND FOODS

Abstract: Source: US6346289B [EN] A setting agent of fats and oils which comprises an ester of a fatty acid having 20 or more carbon atoms, or comprises the ester and at least one compound selected from the group consisting of polyglycerol fatty acid esters and sucrose fatty acid esters; fats and oils prepared by adding the setting agent of fats and oils; and food comprising the fats and oils.

Classifications:

International (IPC 8-9): A21D2/16 A23C11/04 A23D7/00 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23D9/05 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/04 A23G9/32 A23G9/44 A23G9/52 A23L1/00 A23L1/16 A23L1/19 A23L1/217 A23L1/31 A23L1/314 A23L1/317 A23L1/325 A23L13/00 A23L13/60 A23L17/00 A23L9/20 A23P1/16 C09K3/00 C11B15/00 C11C3/00 (Advanced/Invention);
A21D2/16 A23C11/04 C11B15/00 (Advanced/Non-invention);
A21D2/00 A23C11/00 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/04 A23G9/32 A23G9/44 A23G9/52 A23L1/00 A23L1/16 A23L1/19 A23L1/214 A23L1/31 A23L1/314 A23L1/317 A23L1/325 A23P1/10 C09K3/00 C11B15/00 C11C3/00 (Core/Invention);
A21D2/00 A23C11/00 (Core/Non-invention)

International (IPC 1-7): A21D2/16 A23C11/04 A23D7/00 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23G3/00 A23G9/02 A23L1/19 A23L1/31 A23L1/317 A23L1/325 C09K3/00 C11B15/00 C11C3/00

CPC: A23L7/111 A23L9/22 A23L13/43 A23L13/65 A23L17/70 A23L19/18 A23P30/40 C11B15/00 A23D7/013 A23D9/013 A23D9/05 A23G1/305 A23G3/346 A23G9/52 A23G2200/08

European: A23D7/01S A23D9/013 A23D9/05 A23G1/00K A23G1/00K+D8 A23G1/00M A23G1/00M+D8 A23G1/30C A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23L1/00P16 A23L1/16D A23L1/19B A23L1/217 A23L1/314B10 A23L1/317B A23L1/325E A23P1/16 C11B15/00 K23G200/08

US: 426/601 426/610 426/611

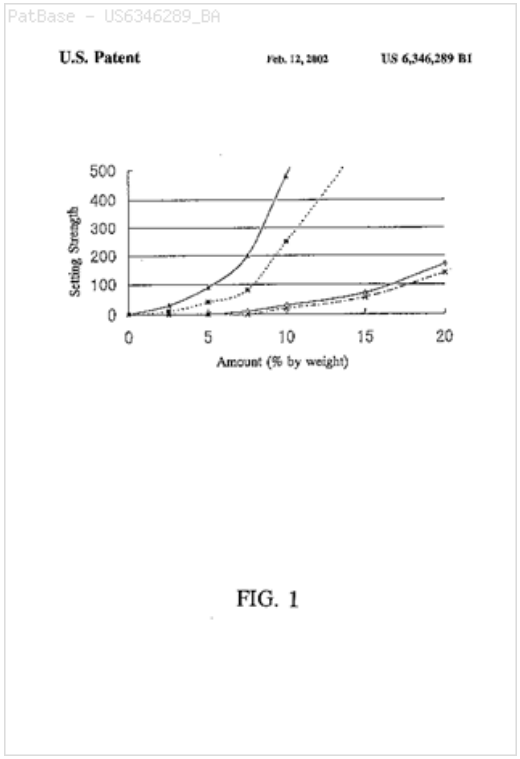


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AT342952 E	20061115	AT19980935347T	19980803
AU199884632 A1	19990823	AU19980084632	19980803
CA2319425 AA	20000803	CA19982319425	19980803
CA2319425 C	20040427	CA19982319425	19980803
DE69836231 D1	20061130	DE19986036231	19980803
EP1052284 A1	20001115	EP19980935347	19980803
EP1052284 A4	20030604	EP19980935347	19980803
EP1052284 B1	20061018	EP19980935347	19980803
JP2000116322 A2	20000425	JP19980064168	19980226
JP2000116323 A2	20000425	JP19980064169	19980226
JP2000116325 A2	20000425	JP19980073245	19980305
JP2000116330 A2	20000425	JP19980064167	19980226
JP2000116333 A2	20000425	JP19980048908	19980213
JP2000116349 A2	20000425	JP19980048909	19980213
JP2000116357 A2	20000425	JP19980073247	19980305
JP2000119687 A2	20000425	JP19980039631	19980204
JP2000119688 A2	20000425	JP19980073246	19980305
JP3706240 B2	20051012	JP19980048908	19980213
JP3706242 B2	20051012	JP19980064167	19980226
JP3897437 B2	20070322	JP19980064168	19980226
JP3897438 B2	20070322	JP19980064169	19980226
JP3897441 B2	20070322	JP19980073245	19980305
JP3973001 B2	20070905	JP19980048909	19980213
JP4047961 B2	20080213	JP19980039631	19980204
JP4190045 B2	20081203	JP19980073246	19980305
JP4958328 B2	20120620	JP19980073247	19980305
KR100388695 B1	20030625	KR20007008346	20000731
KR20010040490 A	20010515	KR20007008346	19980803
US6346289 BA	20020212	US19990402330	19991004
WO9940167 A1	19990812	WO1998JP03463	19980803

Priority:

JP19980039631 19980204 JP19980048908 19980213 JP19980048909 19980213
JP19980064169 19980226 JP19980064168 19980226 JP19980064167 19980226

JP19983963198	19980204	JP19984890898	19980213	JP19984890998	19980213
JP19986416798	19980226	JP19986416898	19980226	JP19980073247	19980305
JP19980073245	19980305	JP19980073246	19980305	JP19986416998	19980226
JP19987324598	19980305	JP19987324698	19980305	JP19987324798	19980305
WO1998JP03463	19980803	WO1998JP03463	19980803		

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Inventor(s): YUUJI SAKAMOTO ; HAJIME NASAKA

Agent(s): KIRBY EADES GALE BAKER

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT KE KG KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT342952 E	20061115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT342952 E	20070415	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT342952 E	20180803	PEXP		Calculated Patent Term Expiry	
AU199884632 A1	19990823	LSPB	+	published / reissued	
AU199884632 A1	20001019	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2) (F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2319425 AA	20000803	LSPB	+	published / reissued	
CA2319425 AA	20000803	LSES	+EEER	EXAMINATION REQUEST	
CA2319425 C	20040427	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2319425 C	20180803	PEXP		Calculated Patent Term Expiry	
DE69836231 D1	20070920	LSWD	-8332	NO LEGAL EFFECT FOR DE	
EP1052284 A1	20001115	LSPB	+	published / reissued	
EP1052284 A1	20001115	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000802
EP1052284 A4	20030604	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20030425
EP1052284 A4	20050713	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20050525
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C11B 15/00 20060101AFI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C09K 3/00 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 7/01 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23D 9/013 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/19 20060101ALI20060419BHEP

EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/317 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/325 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23C 11/04 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23G 1/00 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23G 3/00 20060101ALI20060419BHEP
EP1052284 A4	20060614	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23G 9/04 20060101ALI20060419BHEP
EP1052284 B1	20061018	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1052284 B1	20061018	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061018
EP1052284 B1	20061018	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061018
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EP1052284 B1	20061018	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061018
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EP1052284 B1	20061115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1052284 B1	20061115	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1052284 B1	20070118	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20070118
EP1052284 B1	20070118	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20070118
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EP1052284 B1	20070430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1052284 B1	20071017	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20070719
EP1052284 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20070831

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EP1052284 B1	20081128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20061018
EP1052284 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20070803
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EP1052284 B1	20121031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20120831 YEAR OF FEE PAYMENT : 15
EP1052284 B1	20140423	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20130803
EP1052284 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130803
EP1052284 B1	20180803	PEXP		Calculated Patent Term Expiry	
JP2000116322 A2	20000425	LSPB	+	published / reissued	
JP2000116323 A2	20000425	LSPB	+	published / reissued	
JP2000116325 A2	20000425	LSPB	+	published / reissued	
JP2000116330 A2	20000425	LSPB	+	published / reissued	
JP2000116330 A2	20031210	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20031209
JP2000116330 A2	20041207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20041207
JP2000116330 A2	20050208	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523

					EFFECTIVE DATE : 20050207
JP2000116330 A2	20050329	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20050329
JP2000116330 A2	20050531	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050530
JP2000116330 A2	20050614	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2000116330 A2	20050705	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20050705
JP2000116330 A2	20050804	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20050728
JP2000116330 A2	20050805	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2000116333 A2	20000425	LSPB	+	published / reissued	
JP2000116333 A2	20041207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20041207
JP2000116333 A2	20050208	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050207
JP2000116333 A2	20050329	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20050329
JP2000116333 A2	20050531	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050530
JP2000116333 A2	20050614	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2000116333 A2	20050705	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20050705
JP2000116333 A2	20050804	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20050728
JP2000116333 A2	20050805	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2000116349 A2	20000425	LSPB	+	published / reissued	
JP2000116357 A2	20000425	LSPB	+	published / reissued	
JP2000119687 A2	20000425	LSPB	+	published / reissued	
JP2000119687 A2	20070807	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20070807
JP2000119687 A2	20071006	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20071005
JP2000119687 A2	20071024	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2000119687 A2	20071120	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20071120
JP2000119687 A2	20071129	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20071126
JP2000119687 A2	20071130	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS	YEAR OF FEE PAYMENT : 3

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JP2000119687 A2	20071130	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2000119688 A2	20000425	LSPB	+	published / reissued	
JP2000119688 A2	20050303	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050302
JP2000119688 A2	20080507	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080507
JP2000119688 A2	20080708	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080707
JP2000119688 A2	20080724	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2000119688 A2	20080819	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20080819
JP2000119688 A2	20080821	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2000119688 A2	20080925	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20080916
JP2000119688 A2	20080926	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2000119688 A2	20080926	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3706240 B2	20051012	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3706240 B2	20080812	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706240 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706240 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706240 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3706240 B2	20090811	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3706240 B2	20100817	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3706240 B2	20110809	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3706240 B2	20120807	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3706240 B2	20130806	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706240 B2	20140805	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250

JP3706240 B2	20150818	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706240 B2	20160809	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706240 B2	20180213	PEXP		Calculated Patent Term Expiry	
JP3706242 B2	20051012	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3706242 B2	20080812	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706242 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706242 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3706242 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3706242 B2	20090811	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3706242 B2	20100817	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3706242 B2	20110809	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3706242 B2	20120807	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3706242 B2	20130806	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706242 B2	20140805	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706242 B2	20150818	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706242 B2	20160809	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3706242 B2	20180226	PEXP		Calculated Patent Term Expiry	
JP3897437 B2	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3897437 B2	20060207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060207
JP3897437 B2	20060411	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060410
JP3897437 B2	20060815	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060815
JP3897437 B2	20061017	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20061016
JP3897437 B2	20061102	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3897437 B2	20061128	LSGT	+A01	WRITTEN DECISION TO	TEXT : JAPANESE INTERMEDIATE

				GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	CODE: A01 EFFECTIVE DATE : 20061128
JP3897437 B2	20061228	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20061219
JP3897437 B2	20070105	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3897437 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897437 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897437 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3897437 B2	20091224	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897437 B2	20100105	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3897437 B2	20110111	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3897437 B2	20120110	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3897437 B2	20140114	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897437 B2	20150113	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897437 B2	20160112	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897437 B2	20161227	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897437 B2	20180226	PEXP		Calculated Patent Term Expiry	
JP3897438 B2	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3897438 B2	20060207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060207
JP3897438 B2	20060411	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060410
JP3897438 B2	20060815	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060815
JP3897438 B2	20061017	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20061016
JP3897438 B2	20061102	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3897438 B2	20061128	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20061128
JP3897438 B2	20061228	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20061219

JP3897438 B2	20070105	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3897438 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897438 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897438 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3897438 B2	20091224	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897438 B2	20100105	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3897438 B2	20110111	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3897438 B2	20120110	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3897438 B2	20140114	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897438 B2	20150113	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897438 B2	20160112	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897438 B2	20161227	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897438 B2	20180226	PEXP		Calculated Patent Term Expiry	
JP3897441 B2	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3897441 B2	20040127	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20040126
JP3897441 B2	20060328	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060328
JP3897441 B2	20060530	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060529
JP3897441 B2	20060815	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060815
JP3897441 B2	20061017	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20061016
JP3897441 B2	20061102	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3897441 B2	20061128	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20061128
JP3897441 B2	20061228	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20061219

JP3897441 B2	20070105	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3897441 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897441 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897441 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3897441 B2	20091224	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3897441 B2	20100105	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3897441 B2	20110111	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3897441 B2	20120110	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3897441 B2	20140114	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897441 B2	20150113	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897441 B2	20160112	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897441 B2	20161227	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3897441 B2	20180305	PEXP		Calculated Patent Term Expiry	
JP3973001 B2	20070905	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3973001 B2	20041207	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20041207
JP3973001 B2	20050208	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050207
JP3973001 B2	20050329	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20050329
JP3973001 B2	20050531	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050530
JP3973001 B2	20070116	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20070116
JP3973001 B2	20070320	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070319
JP3973001 B2	20070406	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3973001 B2	20070508	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20070508
JP3973001 B2	20070510	LSGT	+A01	特許査定書 Decision of	

				patent grant	
JP3973001 B2	20070612	LSFE	R100	特許料納付書 Patent fee payment form	
JP3973001 B2	20070614	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20070606
JP3973001 B2	20070622	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3973001 B2	20070625	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3973001 B2	20090701	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3973001 B2	20090709	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3973001 B2	20090709	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP3973001 B2	20100624	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20100629	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3973001 B2	20110623	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20110628	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3973001 B2	20120621	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20120626	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3973001 B2	20130613	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20130618	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3973001 B2	20140619	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20140624	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3973001 B2	20150625	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20150630	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3973001 B2	20160616	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20160621	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3973001 B2	20170601	LSFE	R20	特許料納付書 Patent fee payment form	
JP3973001 B2	20170606	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3973001 B2	20180213	PEXP		Calculated Patent Term Expiry	
JP4047961 B2	20080213	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4047961 B2	20071122	LSGT	+A01	特許査定書 Decision of patent grant	

JP4047961 B2	20071127	LSFE	R100	特許料納付書 Patent fee payment form	
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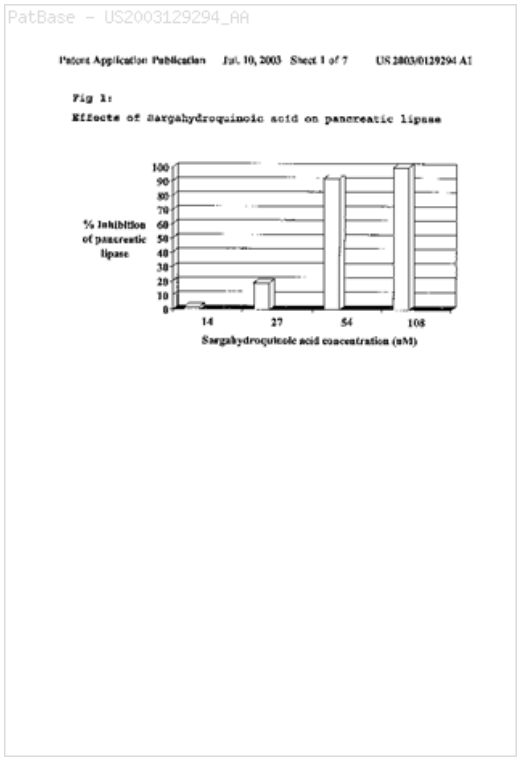
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58) Family number: 28047832 (US2003129294A)

Title: BLENDS COMPRISING A SUBSTITUTED FATTY ACID OR A DERIVATIVE THEREOF

Abstract: Source: US2003129294A [EN] The inventon concerns blends of a hydroquinone substituted poly unsaturated fatty acid (as present in Kombo nut oil) or a derivative thereof, which blends comprised: (i) 0.1-99.9 wt percent of the substituted acid (ii) 0-99.8 wt percent of Kombo butter glycerides (iii) 0.1-99.9 wt percent of other triglycerides Food products and food supplements comprising such hydroquinone substituted acids are also part of the invention. The substituted acids display many useful health benefits.

Classifications:
International (IPC 8-9): A01N61/00 A01N65/00 A21D2/16 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23G3/00 A23G3/34 A23G3/40 A23G9/32 A23G9/52 A23L1/00 A23L1/164 A23L1/30 A61K31/00 A61K31/20 A61K31/202 A61K31/232 A61K36/00 A61K36/18 A61P17/00 A61P17/10 A61P19/00 A61P25/00 A61P25/28 A61P3/00 A61P3/02 A61P3/10 A61P35/00 A61P35/04 A61P43/00 A61P7/00 A61P9/00 A61P9/02 A61P9/10 A61P9/12 C09K15/00 C11B11/00 C11B5/00 C11C3/00 (Advanced/Invention);
A01N61/00 A01N65/00 A21D2/00 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/00 A23L1/164 A23L1/30 A61K31/00 A61K31/185 A61K31/21 A61K36/00 A61K36/18 A61P17/00 A61P19/00 A61P25/00 A61P3/00 A61P35/00 A61P43/00 A61P7/00 A61P9/00 C09K15/00 C11B11/00 C11B5/00 C11C3/00 (Core/Invention)
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US: 252/404 424/776 426/601 426/601S 426/607 426/607P 514/1 514/560



Family:

Publication number	Publication date	Application number	Application date
AT322256 E	20060415	AT20020078451T	20020822
DE60210382 D1	20060518	DE20026010382	20020822
DE60210382 T2	20070201	DE20026010382T	20020822
DK1287825 T3	20060501	DK20020078451T	20020822
EP1287825 A1	20030305	EP20020078451	20020822
EP1287825 B1	20060405	EP20020078451	20020822
ES2264463 T3	20070101	ES20020078451T	20020822
JP2003119493 A2	20030423	JP20020259376	20020904
JP2007044046 A2	20070222	JP20060249367	20060914
JP4191447 B2	20081203	JP20020259376	20020904
JP4444935 B2	20100331	JP20060249367	20060914
PT1287825 T	20060630	PT20020078451T	20020822
US2003129294 AA	20030710	US20020230352	20020829
US2010029766 AA	20100204	US20090508635	20090724
US7582317 BB	20090901	US20020230352	20020829

Priority:

EP20010307523 20010904 EP20020078451 20020822 EP20020251500 20020304
US20020230352 20020829 US20090508635 20090724 JP20020259376 20020904

Probable Assignee: LC USA LLC

Assignee(s): (std): UNILEVER NV ; UNILEVER PLC ; UNILEVER PATENT HOLDINGS ; LODERS CROKLAAN BV ; LODERS CROKLAAN USA LLC ; ROGERS JULIA SARAH ; SCHMID ULRIKE ; BARCLAY SCOTT SINCLAIR ; BOSLEY JOHN ANTHONY ; CAIN FREDERICK WILLIAM ; KOENEN CLAUDIA

Assignee(s): LC USA LLC ; LODERS CROKLAAN B V ; UNILEVER PATENT HOLDING ; LODERS CROKLAAN B V WORMERVEER

Inventor(s): (std): ANTHONY BOSLEY JOHN ; BARCLAY SCOTT SINCLAIR ; BOSLEY JOHN ANTHONY ; CAIN FREDERICK W ; CAIN FREDERICK WILLIAM ; CLAUDIA KOENEN ; KOENEN CLAUDIA ; ROGERS JULIA SARAH ; SARAH ROGERS JULIA ; SCHMID ULRIKE ; SINCLAIR BARCLAY SCOTT ; ULRIKE SCHMID ; WILLIAM CAIN FREDERICK

Agent(s): YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; SHIROGANE HIROSHI; SUGIYAMA NAOTO; HOSHI TAKAKO; MORGAN LEWIS AND BOCKIUS LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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EP1287825 B1	20101130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20100812 YEAR OF FEE PAYMENT : 9
EP1287825 B1	20101231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20100818 YEAR OF FEE PAYMENT : 9
EP1287825 B1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20100812 YEAR OF FEE PAYMENT : 9
EP1287825 B1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20100806 YEAR OF FEE PAYMENT : 9
EP1287825 B1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20100818 YEAR OF FEE PAYMENT : 9
EP1287825 B1	20120229	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *LODERS CROKLAAN B.V. EFFECTIVE DATE : 20110831
EP1287825 B1	20120302	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A TEXT : LAPSE DUE TO NON-PAYMENT OF FEES EFFECTIVE DATE : 20120222
EP1287825 B1	20120314	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20120301
EP1287825 B1	20120330	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1287825 B1	20120403	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1287825 B1	20120425	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20110822
EP1287825 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110831
EP1287825 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

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EP1287825 B1	20120518	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20120430
EP1287825 B1	20120523	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1287825 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120222
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EP1287825 B1	20120614	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60210382 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120301
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EP1287825 B1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110831
EP1287825 B1	20121215	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 322256 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20110822
EP1287825 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

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EP1287825 B1	20130604	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20130604
EP1287825 B1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120301
EP1287825 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110823
EP1287825 B1	20220822	PEXP		Calculated Patent Term Expiry	
ES2264463 T3	20070101	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2264463 T3	20220822	PEXP		Calculated Patent Term Expiry	
JP2003119493 A2	20030423	LSPB	+	published / reissued	
JP2003119493 A2	20031215	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20031212
JP2003119493 A2	20040831	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20040830
JP2003119493 A2	20040831	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20040830
JP2003119493 A2	20060314	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060314
JP2003119493 A2	20060915	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060914
JP2003119493 A2	20080807	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2003119493 A2	20080820	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20080819
JP2003119493 A2	20080821	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2003119493 A2	20080925	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20080918
JP2003119493 A2	20080926	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2003119493 A2	20080926	LSGT	+R150	CERTIFICATE OF	TEXT : JAPANESE INTERMEDIATE

				PATENT OR REGISTRATION OF UTILITY MODEL	CODE: R150
JP2007044046 A2	20070222	LSPB	+	published / reissued	
JP2007044046 A2	20090722	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090721
JP2007044046 A2	20091111	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20091110
JP2007044046 A2	20091207	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2007044046 A2	20091216	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20091215
JP2007044046 A2	20091217	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2007044046 A2	20100121	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20100114
JP2007044046 A2	20100122	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2007044046 A2	20100125	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4191447 B2	20081203	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4191447 B2	20110926	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP4191447 B2	20220904	PEXP		Calculated Patent Term Expiry	
JP4444935 B2	20100331	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4444935 B2	20130122	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP4444935 B2	20260914	PEXP		Calculated Patent Term Expiry	
PT1287825 T	20060630	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1287825 T	20220822	PEXP		Calculated Patent Term Expiry	
US2003129294 AA	20030710	LSPB	+	published / reissued	
US2003129294 AA	20021127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNILEVER PATENT HOLDING, NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BARCLAY, SCOTT SINCLAIR; BOSLEY, JOHN ANTHONY; CAIN, FEDERICK WILLIAM; AND OTHERS; REEL/FRAME:013538/0526 EFFECTIVE DATE : 20020904
US2003129294 AA	20030905	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LC USA LLC, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

					ASSIGNOR:UNILEVER PATENT HOLDING B.V.; REEL/FRAME:014466/0202 EFFECTIVE DATE : 20030722
US2003129294 AA	20040315	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LODERS CROKLAAN USA LLC, ILLINOIS OLDPARTY : CHANGE OF NAME; ASSIGNOR:LC USA LLC; REEL/FRAME:014431/0001 EFFECTIVE DATE : 20021224
US2010029766 AA	20100204	LSPB	+	published / reissued	
US2010029766 AA	20090724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LC USA LLC,ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNILEVER PATENT HOLDINGS B.V.; REEL/FRAME:023001/0249 EFFECTIVE DATE : 20021129
US2010029766 AA	20090724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LODERS CROKLAAN USA LLC,ILLINOIS OLDPARTY : CHANGE OF NAME; ASSIGNOR:LC USA LLC; REEL/FRAME:023001/0282 EFFECTIVE DATE : 20021224
US2010029766 AA	20090724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNILEVER PATENT HOLDINGS,NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BARCLAY, SCOTT SINCLAIR; BOSLEY, JOHN ANTHONY; CAIN, FREDERICK WILLIAM; AND OTHERS; REEL/FRAME:023001/0188 EFFECTIVE DATE : 20020904
US2010029766 AA	20111104	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7582317 BB	20090901	LSGT	+	granted / extensions (spc, cpc, pte)	
US7582317 BB	20100914	LSRE	CC	CERTIFICATE OF CORRECTION	
US7582317 BB	20130901	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7582317 BB	20130930	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7582317 BB	20131022	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20130901
US7582317 BB	20260826	PEXP		Calculated Patent Term Expiry (PTA 1458 days)	

59) Family number: 2952169 (US5071669A)

Title: REDUCED CALORIE FAT COMPOSITIONS CONTAINING POLYOL POLYESTERS AND REDUCED CALORIE TRIGLYCERIDES

Abstract: Source: US5071669A [EN] Reduced calorie fat compositions which contain combinations of substantially nonabsorbable, substantially nondigestible polyol polyesters and certain reduced calorie triglycerides that function as anti-anal leakage agents and provide textural/taste benefits are disclosed. These reduced calorie fat compositions are useful in a variety of food applications, including frying oils for salted snacks, chocolate-flavored candy bars and cooking/salad oils.

Classifications:
International (IPC 8-9): A23D7/00 A23D7/01 A23D9/00 A23D9/013 A23G1/00 A23G1/30 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23L1/217 A23L1/24 A23L1/30 A23L1/307 A23L1/308 A61K31/23 A61K31/25 A61K31/70 A61P1/00 A61P1/10 A61P3/04 C11C3/00 (Advanced/Invention);
A23D7/00 A23G1/30 (Advanced/Non-invention);
A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23L1/214 A23L1/24 A23L1/30 A23L1/307 A23L1/308 A61K31/21 A61K31/70 A61P1/00 A61P3/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D3/10 A23D5/00 A23D7/00 A23D7/005 A23D7/02 A23D9/00 A23D9/02 A23G1/00 A23G3/00 A23G9/00 A23G9/02 A23L1/217 A23L1/24 A23L1/30 A23L1/307 A23L1/308 A61K31/23 A61K31/25 A61K31/70 C11B1/00 C11C3/00
CPC: Y10S426/804 A23L33/26 A23G3/346 A23D7/013 A23D9/00 A23D9/013 A23G9/52 A23G2200/08
European: A23D7/01S A23D9/00 A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23L1/308P K23G200/08
US: 426/601 426/607 426/611 426/660 426/804

END

Family:

Publication number	Publication date	Application number	Application date
AR244953 A1	19931230	AR19900316458	19900327
AT99877 E	19940115	AT19900303024T	19900321
AU199052271 A1	19901004	AU19900052271	19900327
AU641383 B2	19930923	AU19900052271	19900327
CA2012381 AA	19900928	CA19902012381	19900316
CA2012381 C	19970701	CA19902012381	19900316
DE69005870 D1	19940224	DE19906005870	19900321
DE69005870 T2	19940601	DE19906005870T	19900321
DK0390410 T3	19940214	DK19900303024T	19900321
EP0390410 A2	19901003	EP19900303024	19900321
EP0390410 A3	19911113	EP19900303024	19900321
EP0390410 B1	19940112	EP19900303024	19900321
ES2048429 T3	19940316	ES19900303024T	19900321
HK94796 A	19960607	HK19960000947	19960530
IE63652 B	19950531	IE19900001123	19900327
IE901123 L	19900928	IE19900001123	19900327
JP3007539 A2	19910114	JP19900080541	19900328
KR0140696 B1	19980601	KR19900004091	19900327
KR19900014572 A	19901024	KR19900004091	19900327
MA21785 A1	19901001	MA19900022051	19900327
NZ233092 A	19920625	NZ19900233092	19900327
TR25422 A	19930301	TR19900000317	19900328
US5071669 A	19911210	US19900563741	19900802
US5419925 A	19950530	US19940226240	19940411

Priority:

CA19902012381 19900316 EP19900303024 19900321 US19920946257 19920916
US19910770496 19911003 US19900563741 19900802 US19890329629 19890328
US19940226240 19940411 US19930070581 19930602

Probable Assignee: PROCTER AND GAMBLE

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Agent(s):	PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY
Designated states:	AT BE CH DE DK ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR244953 A1	19931230	LSGT	+	granted / extensions (spc, cpc, pte)	
AR244953 A1	20100327	PEXP		Calculated Patent Term Expiry	
AT99877 E	19940115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT99877 E	20100321	PEXP		Calculated Patent Term Expiry	
AU199052271 A1	19901004	LSPB	+	published / reissued	
AU641383 B2	19930923	LSGT	+	granted / extensions (spc, cpc, pte)	
AU641383 B2	20031030	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
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CA2012381 AA	19900928	LSPB	+	published / reissued	
CA2012381 AA	19900316	LSES	+EEER	EXAMINATION REQUEST	
CA2012381 C	19970701	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2012381 C	20040316	LSLE	-MKLA	LAPSED	
CA2012381 C	20100316	PEXP		Calculated Patent Term Expiry	
DE69005870 D1	19950216	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
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EP0390410 A2	19901003	LSPB	+	published / reissued	
EP0390410 A3	19920513	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19920318
EP0390410 A3	19920902	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19920717
EP0390410 B1	19940112	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0390410 B1	19940316	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2048429 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0390410 B1	19940506	LSFE	+EPTA	LU: LAST PAID ANNUAL FEE	REF COUNTRY CODE : EP

EP0390410 B1	19950104	LSGT	+26N	NO OPPOSITION FILED	
EP0390410 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	REF COUNTRY CODE : EP TEXT : 90303024.5
EP0390410 B1	19981214	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 19981214 YEAR OF FEE PAYMENT : 10
EP0390410 B1	19990129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 19990129 YEAR OF FEE PAYMENT : 10
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EP0390410 B1	20000321	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20000321
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EP0390410 B1	20020205	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20020205 YEAR OF FEE PAYMENT : 13
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EP0390410 B1	20020315	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20020315 YEAR OF FEE PAYMENT : 13
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EP0390410 B1	20020416	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20020416 YEAR OF FEE PAYMENT : 13
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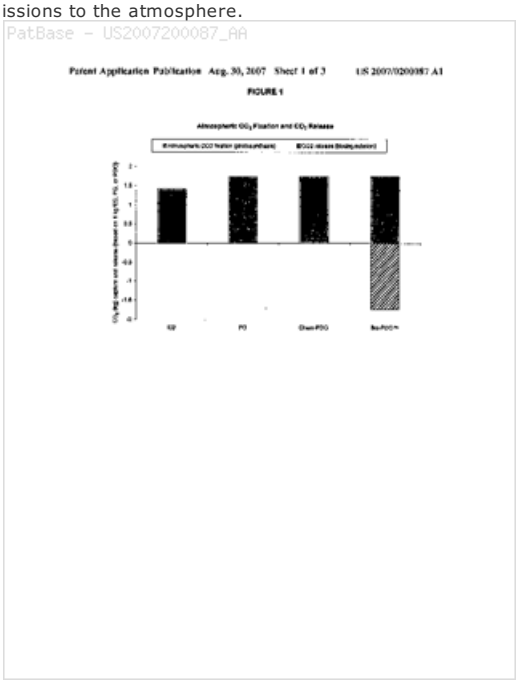
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EP0390410 B1	20031112	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20030321
EP0390410 B1	20031127	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20031127
EP0390410 B1	20031201	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20031001
EP0390410 B1	20040102	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0390410 B1	20040816	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20030322
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ES2048429 T3	19940316	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2048429 T3	19940316	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 390410 COUNTRY OF REF DOCUMENT : ES

ES2048429 T3	20100321	PEXP		Calculated Patent Term Expiry	
HK94796 A	19960607	LSGT	+	granted / extensions (spc, cpc, pte)	
HK94796 A	20041215	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	
HK94796 A	20160530	PEXP		Calculated Patent Term Expiry	
IE63652 B	19950531	LSGT	+	granted / extensions (spc, cpc, pte)	
IE63652 B	20010207	LSLE	-MM4A	PATENT LAPSED	
IE63652 B	20100327	PEXP		Calculated Patent Term Expiry	
JP3007539 A2	19910114	LSPB	+	published / reissued	
KR0140696 B1	19980601	LSGT	+	granted / extensions (spc, cpc, pte)	
KR0140696 B1	19950327	LSES	A201	REQUEST FOR EXAMINATION	
KR0140696 B1	19980109	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR0140696 B1	19980313	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR0140696 B1	20010314	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR0140696 B1	20130601	PEXP		Calculated Patent Term Expiry	
KR19900014572 A	19901024	LSPB	+	published / reissued	
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MA21785 A1	20100327	PEXP		Calculated Patent Term Expiry	
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TR25422 A	19930301	LSGT	+	granted / extensions (spc, cpc, pte)	
TR25422 A	20100328	PEXP		Calculated Patent Term Expiry	
US5071669 A	19911210	LSGT	+	granted / extensions (spc, cpc, pte)	
US5071669 A	19911009	LSGT	PAT1	Patented Case	
US5071669 A	19950602	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5071669 A	19990601	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5071669 A	20031210	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5071669 A	20040203	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20031210
US5071669 A	20100802	PEXP		Calculated Patent Term Expiry	
US5419925 A	19950530	LSGT	+	granted / extensions (spc, cpc, pte)	
US5419925 A	19950519	LSGT	PAT1	Patented Case	
US5419925 A	19951205	LSRE	CC	CERTIFICATE OF CORRECTION	
US5419925 A	19981030	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5419925 A	20020924	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5419925 A	20061116	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5419925 A	20140411	PEXP		Calculated Patent Term Expiry	

60) Family number: 35577592 (US2007200087A)

Title: DEICING AND ANTI-ICING COMPOSITIONS COMPRISING RENEWABLY-BASED, BIODEGRADABLE 1,3-PROPANEDIOL

Abstract: Source: US2007200087A [EN] Disclosed herein are deicing and anti-icing compositions comprising 1,3-propanediol, wherein the 1,3-propanediol in said deicing or anti-icing composition has a bio-based carbon content of about 1 percent to 100 percent. In addition, it is preferred that the 1,3-propanediol be biologically-derived, and wherein upon biodegradation, the biologically-derived 1,3-propanediol contributes no anthropogenic CO2 emissions to the atmosphere.



Classifications:

International (IPC 8-9): A01N1/02 A01N25/02 A01N3/00 A01N31/00 A01N31/02 A01N37/00 A01N37/02 A01N65/00 A01P1/00 A21D2/14 A23B7/154 A23K1/16 A23K20/105 A23L1/03 A23L1/035 A23L1/22 A23L1/30 A23L2/52 A23L29/00 A23L29/10 A23L3/3463 A23L3/349 A23L3/3499 A23L33/10 A23L33/12 A61F2/00 A61K31/045 A61K31/047 A61K31/21 A61K31/22 A61K31/23 A61K35/12 A61K35/20 A61K35/60 A61K36/00 A61K36/02 A61K36/18 A61K36/185 A61K36/28 A61K36/355 A61K36/61 A61K36/738 A61K47/10 A61K47/14 A61K47/44 A61K8/02 A61K8/04 A61K8/18 A61K8/28 A61K8/31 A61K8/33 A61K8/34 A61K8/37 A61K8/42 A61K8/72 A61K8/92 A61K8/96 A61K8/97 A61K8/98 A61K8/99 A61P31/04 A61Q1/00 A61Q1/02 A61Q1/08 A61Q1/10 A61Q1/14 A61Q11/00 A61Q13/00 A61Q15/00 A61Q17/00 A61Q17/04 A61Q19/00 A61Q19/10 A61Q5/00 A61Q5/02 A61Q5/06 A61Q5/12 A61Q9/02 A61Q9/04 B01D11/02 B01J27/10 B01J31/02 B01J31/04 C02F5/10 C07C27/00 C07C31/20 C07C51/43 C07C67/08 C07C69/16 C07C69/28 C07C69/34 C07C69/44 C07C69/58 C07C69/60 C07C69/72 C07C69/78 C08G63/02 C08K5/053 C08K5/10 C08K5/103 C08K5/12 C08L73/02 C09D11/00 C09D11/03 C09D11/16 C09D11/38 C09D167/00 C09D201/00 C09D7/12 C09G1/08 C09K3/00 C09K3/18 C09K5/00 C09K5/06 C09K5/08 C09K5/10 C09K5/20 C10M105/38 C10M105/40 C10M129/08 C11C1/00 C11C3/00 C11D1/66 C11D1/68 C11D11/00 C11D17/00 C11D17/08 C11D3/20 C11D3/34 C11D3/37 C11D3/386 C11D3/60 C11D7/26 C11D7/50 C12N9/96 C12P1/00 C12P7/18 C12P7/42 C12P7/62 C12P7/64 C23G1/06 H01M10/50 (Advanced/Invention);
A21D15/00 A21D2/14 A23B4/08 A23B4/10 A23B7/16 A23C19/086 A23C19/10 A23G3/00 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23K1/16 A23L1/10 A23L1/22 A23L1/236 A23L1/30 A23L27/00 A23L27/30 A23L3/349 A23L3/3517 A23L7/10 A61K9/00 A61K9/06 A61K9/28 A61Q1/14 A61Q17/00 A61Q19/04 A61Q5/00 A61Q5/10 A61Q9/02 C07B61/00 C10N30/00 C12G3/04 C12P7/18 (Advanced/Non-invention);
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A21D15/00 A21D2/00 A23B4/00 A23B4/06 A23B7/00 A23C19/00 A23G3/00 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23L1/10 A23L1/22 A23L1/236 A23L1/30 A23L3/3463 C12G3/00 C12P7/02 (Core/Non-invention)

CPC: A61K8/676 A61K8/06 A61K8/19 A61K8/26 A61K8/27 A61K8/29 A61K8/585 A61K8/893 A61K8/894 A61K8/922 A61K8/375 A61K47/14 A61K47/44 A61K8/92 A61K47/10 A61K36/28 A61K36/738 A61K36/02 A61K36/355 A61K36/61 A61K36/185 C11D3/38663 A61Q19/007 A61Q9/04 A61Q13/00 A61K2800/75 A01N25/02 A61K8/37 A21D2/14 A23L2/52 A23L3/3463 A61K8/0208 A61K9/0019 A61K9/06 A61K9/282 A61K31/22 A61Q5/00 A61Q19/005 B01D11/0288 C07C67/08 C07C69/16 C07C69/28 C07C69/44 C07C69/58 C07C69/60 C07C69/78 C08K5/103 C09D7/1233 C09D11/03 C09G1/08 C09K3/18 C09K5/10 C09K5/20 C10M2207/283 C11C3/003 C11D1/667 C11D3/2003 C11D3/2044 C11D3/2068 C11D3/2093 C11D3/3418 C11D7/266 C11D7/5022 C12P7/18 C12P7/42 C12P7/62 A23K1/1609 C08L67/04 A23K20/105 A61K8/345 A61Q1/02 A61Q1/08 A61Q1/10 A61Q5/02 A61Q5/10 A61Q5/12 A61Q11/00 A61Q15/00 A61Q17/005 A61Q17/04 A61Q19/00 A61Q19/002 A61Q19/04 A61Q19/10 A23L29/035 A23L29/04 A23L29/10 A23L33/10 A23L33/12 A23L29/03 A23B7/154 A61Q19/008 A61Q5/065 C09K3/185 C09D11/38 A01N3/00 C09D11/16 C08K5/053 A01N1/021 C11D11/0017 C11D11/0023 C10M129/08 C02F5/10 A61K2800/10 C08K2201/018 C10M2207/022 C10M2207/04 C10M2209/086 C10M2229/0425 C10M2215/042 C10M2215/223 C10N2230/64 C10N2240/08 A23V2002/00 A61Q1/14 A61Q9/02 A61Q17/00 Y02W10/37 Y02A50/36 C09D7/63

European: A21D2/14 A23B7/154 A23K1/16D A23L1/035 A23L1/03D2 A23L1/03D2B A23L1/30 A23L1/30C2 A23L2/52 A23L3/3463 A61K31/22 A61K47/14 A61K8/02C A61K8/06 A61K8/19 A61K8/26 A61K8/27 A61K8/29 A61K8/34D A61K8/37 A61K8/37C A61K8/58C A61K8/67H A61K8/893 A61K8/894 A61K8/92C A61Q15/00 A61Q17/00F A61Q17/04 A61Q19/00 B01D11/02T C07C67/08 C07C69/16 C07C69/28 C07C69/44 C07C69/58 C07C69/60 C07C69/78 C08K5/103 C09D11/03 C09D7/12D4 C09G1/08 C09K3/18 C09K5/10 C09K5/20 C11C3/00B C11D1/66E C11D3/20B C11D3/20B2A C11D3/20C C11D3/20F C11D3/34B C11D7/26F C11D7/50A8 C12P7/18 C12P7/42 C12P7/62 K61K47/44 K61K9/00M5 K61K9/06 K61K9/28H4 K61Q1/02 K61Q1/08 K61Q1/10 K61Q1/14 K61Q11/00 K61Q15/00 K61Q17/00 K61Q17/00F K61Q17/04 K61Q19/00H K61Q19/00M K61Q19/04 K61Q19/10 K61Q5/00 K61Q5/02 K61Q5/10 K61Q5/12 K61Q9/02 M08K5/103 M10M207/283

US: 1/1 106/13 106/13S 252/182.12 252/182.120S 252/364 252/364S 252/389.1 252/67 252/67P 252/70 252/70P 252/73 252/73P 424/195.17 424/195.170 424/195.170P 424/428 424/49 424/520 424/535 424/59 424/59P 424/61 424/62 424/63 424/64 424/65 424/66 424/66P 424/69 424/69S 424/70.1 424/70.19 424/70.190S 424/70.31 424/70.310P 424/70.7 424/725 424/725P 424/725S 424/94.1 424/94.2 424/94.63 426/250 426/250S 426/321 426/531 426/534 429/120 435/134 435/134P 435/161 435/161S 510/109 510/119 510/119S 510/130 510/138 510/141 510/159 510/218 510/267 510/276 510/392 510/405 510/407 510/461 510/461S 510/465 510/505 510/505S 510/515 512/1 514/1.1 514/506 514/546 514/547 514/547S 514/552 514/724 514/738 514/772 514/785 524/296 524/306 524/306S 528/272 528/272P 554/1 554/168 554/174 554/174S 554/223 554/223S 554/227 554/227S 560/112 560/112S 560/129 560/178 560/178S 560/190 560/198 560/198S 560/264 560/264S 560/85 568/852 568/868 568/868S 8/161

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Priority:

CN200780011192 20070212	CN200780011301 20070212	JP20080554433 20070212
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US20150589193	20150105	US20170494183	20170421		

Probable Assignee: DUPONT TATE AND LYLE BIO PRODUCTS CO LLC

Assignee(s): (std): MILLER ROBERT ; JOERGER MELISSA ; FENYVESI GYORGYI ; POLADI RAJA H P ; PALEFSKY IRWIN A ; MUSKA CARL F ; DUPONT TATE AND LYLE BIO PRODUCTS CO LLC ; DUPONT TATE AND LYLE BIO PRODUCTS COMPANY LLC ; WEHNER ANN ; WORKMAN TANYA L ; RATNIKOVA SVETLANA ; POLADI RAJA HARI P R ; POLADI RAJA HARI PRASAD R ; POLADI RAJA HARI PRASAD ; POLADI RAJA HARI PRASAD D ; POLADI RAJA HARI ; DESALVO JOSEPH W ; DUPONT RUN AND LYLE BIO PRODUCTS CO LLC ; DUPONT TATE AND LYLE BIO PRODUCT

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Inventor(s): MUSKA CARL ; PALEFSKY IRWIN ; POLADI RAJA HARI PR ; POLADI RAJA HP ; POLADI RAJA

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2601875 AA	20070921	LSPB	+	published / reissued	
CA2601875 AA	20111212	LSES	+EEER	EXAMINATION REQUEST	
CA2601875 AA	20140701	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20140506
CN101426923 A	20090506	LSPB	+	published / reissued	
CN101426923 A	20090506	LSPB	+C06	PUBLICATION	
CN101426923 A	20160127	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN101516966 A	20090826	LSPB	+	published / reissued	
CN101516966 A	20090826	LSPB	+C06	PUBLICATION	
CN101516966 A	20160316	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN101641313 A	20100203	LSPB	+	published / reissued	
CN101641313 A	20100203	LSPB	+C06	PUBLICATION	
CN101641313 A	20130724	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN105078773 A	20151125	LSPB	+	published / reissued	
CN105078773 A	20151125	LSPB	+C06	PUBLICATION	
CN105175257 A	20151223	LSPB	+	published / reissued	
CN105175257 A	20151223	LSPB	+C06	PUBLICATION	
CN105175257 A	20171103	LSDW	-WD01	INVENTION PATENT	

				APPLICATION DEEMED WITHDRAWN AFTER PUBLICATION	
EP1991515 A2	20081119	LSPB	+	published / reissued	
EP1991515 A2	20081119	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080909
EP1991515 A2	20130306	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20130206
EP1991515 A2	20140122	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140102
EP1991515 A2	20170614	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20170110
EP1991688 A2	20081119	LSPB	+	published / reissued	
EP1991688 A2	20081119	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080909
EP1991688 A4	20110706	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20110608
EP1991688 A4	20120725	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20120622
EP2007210 A2	20081231	LSPB	+	published / reissued	
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EP2007210 A2	20090318	LSES	R17D	SEARCH REPORT (CORRECTION)	EFFECTIVE DATE : 20090212
EP2007210 A2	20090812	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C08G 63/02 20060101AFI20090707BHEP
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EP3085683 A1	20170607	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170426
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JP2009525760 T2	20110423	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20110406
JP2009525760 T2	20120620	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20120619
JP2009525760 T2	20121215	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20121214
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JP2009525760 T2	20130816	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130815
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JP2009527469 T2	20120711	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20120710
JP2009527469 T2	20131016	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20131015
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JP2009527469 T2	20140416	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140415
JP2009527469 T2	20140716	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	TEXT : JAPANESE INTERMEDIATE CODE: A524 EFFECTIVE DATE : 20140715
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JP2009527469 T2	20140903	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140902
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JP2009527469 T2	20141003	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5622359 COUNTRY OF REF DOCUMENT : JP
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JP2009532506 T2	20110423	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20110406
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JP2009532506 T2	20131022	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20131021
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JP2014027937 A2	20131107	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20131106
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JP2014027937 A2	20140708	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140707
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JP2014094956 A2	20140522	LSPB	+	published / reissued	
JP2015154770 A2	20150827	LSPB	+	published / reissued	
JP2017074062 A2	20170420	LSPB	+	published / reissued	
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JP2017074062 A2	20171024	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20171024
JP2017074062 A2	20171116	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20171110
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JP5622359 B2	20140904	LSGT	+A01	特許査定書 Decision of patent grant	
JP5622359 B2	20140930	LSFE	R100	特許料納付書 Patent fee payment form	
JP5622359 B2	20141003	LSGT	+R150	特許証 Patent certificate	
JP5622359 B2	20170720	LSFE	R20	特許料納付書 Patent fee payment form	
JP5622359 B2	20170725	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5622359 B2	20270212	PEXP		Calculated Patent Term Expiry	
JP5916773 B2	20160511	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5916773 B2	20141003	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20141002

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JP5916773 B2	20150508	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150508
JP5916773 B2	20150916	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20150915
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JP5916773 B2	20160311	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20160310
JP5916773 B2	20160323	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5916773 B2	20160329	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20160329
JP5916773 B2	20160414	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20160405
JP5916773 B2	20160415	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5916773 COUNTRY OF REF DOCUMENT : JP
JP5916773 B2	20340115	PEXP		Calculated Patent Term Expiry	
JP6006817 B2	20161012	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6006817 B2	20160120	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20160119
JP6006817 B2	20160419	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20160419
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JP6006817 B2	20160916	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 6006817 COUNTRY OF REF DOCUMENT : JP
JP6006817 B2	20350206	PEXP		Calculated Patent Term Expiry	
JP6243999 B2	20171206	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6243999 B2	20361212	PEXP		Calculated Patent Term Expiry	

US2007200087 AA	20070830	LSPB	+	published / reissued	
US2007200087 AA	20070604	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WEHNER, ANN; FENYVESI, GYORGYI; MILLER, ROBERT; AND OTHERS; REEL/FRAME:019375/0904; SIGNING DATES FROM 20070424 TO 20070504
US2007200087 AA	20090728	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007200088 AA	20070830	LSPB	+	published / reissued	
US2007200088 AA	20070511	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WEHNER, ANN; MILLER, ROBERT; FENYVESI, GYORGYI; AND OTHERS; REEL/FRAME:019284/0446; SIGNING DATES FROM 20070424 TO 20070504
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US2007202062 AA	20070830	LSPB	+	published / reissued	
US2007202062 AA	20070515	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WORKMAN, TANYA L.; RATNIKOVA, SVETLANA; WEHNER, ANN; AND OTHERS; REEL/FRAME:019295/0760; SIGNING DATES FROM 20070426 TO 20070501
US2007202062 AA	20121119	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007202073 AA	20070830	LSPB	+	published / reissued	
US2007202073 AA	20070510	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELAW OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; WEHNER, ANN; JOERGER, MELISSA; AND OTHERS; REEL/FRAME:019273/0925; SIGNING DATES FROM 20070424 TO 20070427
US2007202073 AA	20091026	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007202126 AA	20070830	LSPB	+	published / reissued	
US2007202126 AA	20091002	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; AND OTHERS; REEL/FRAME:023318/0859; SIGNING DATES FROM 20070424 TO 20070427

US2007202126 AA	20091002	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; AND OTHERS; SIGNING DATES FROM 20070424 TO 20070427; REEL/FRAME:023318/0859
US2007202580 AA	20070830	LSPB	+	published / reissued	
US2007202580 AA	20070514	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; REEL/FRAME:019289/0529; SIGNING DATES FROM 20070424 TO 20070427
US2007202580 AA	20070514	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; SIGNING DATES FROM 20070424 TO 20070427; REEL/FRAME:019289/0529
US2007203276 AA	20070830	LSPB	+	published / reissued	
US2007203276 AA	20070514	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; WEHNER, ANN; REEL/FRAME:019285/0838; SIGNING DATES FROM 20070426 TO 20070427
US2007203276 AA	20100517	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007203323 AA	20070830	LSPB	+	published / reissued	
US2007203323 AA	20070511	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; JOERGER, MELISSA; MILLER, ROBERT; AND OTHERS; REEL/FRAME:019282/0818; SIGNING DATES FROM 20070424 TO 20070427
US2007203323 AA	20100717	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007207113 AA	20070906	LSPB	+	published / reissued	
US2007207113 AA	20070523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; AND OTHERS; REEL/FRAME:019334/0140; SIGNING DATES FROM 20070418 TO 20070427
US2007207113 AA	20150209	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007207939 AA	20070906	LSPB	+	published / reissued	
US2007207939 AA	20070521	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; WEHNER, ANN; AND OTHERS; REEL/FRAME:019318/0910; SIGNING DATES FROM 20070424 TO 20070427
US2007207939 AA	20110829	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007207940 AA	20070906	LSPB	+	published / reissued	
US2007207940 AA	20070601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; MILLER, ROBERT; POLADI, RAJA HARI PRASAD R.; AND OTHERS; REEL/FRAME:019366/0585; SIGNING DATES FROM 20070424 TO 20070427
US2007207940 AA	20110705	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007213247 AA	20070913	LSPB	+	published / reissued	
US2007213247 AA	20070521	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; WEHNER, ANN; AND OTHERS; REEL/FRAME:019318/0782; SIGNING DATES FROM 20070424 TO 20070427
US2007213247 AA	20090911	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007241306 AA	20071018	LSPB	+	published / reissued	
US2007241306 AA	20170427	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007275139 AA	20071129	LSPB	+	published / reissued	
US2007275139 AA	20100514	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2008176957 AA	20080724	LSPB	+	published / reissued	
US2008176957 AA	20080408	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; REEL/FRAME:020769/0621 EFFECTIVE DATE : 20080313
US2008176957 AA	20111121	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2009218541 AA	20090903	LSPB	+	published / reissued	
US2009218541 AA	20110525	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WEHNER, ANN; FENYVESI, GYORGYI; MILLER, ROBERT; AND OTHERS; SIGNING DATES FROM

					20070424 TO 20070427; REEL/FRAME:026336/0081
US2009325853 AA	20091231	LSPB	+	published / reissued	
US2009325853 AA	20120227	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010034761 AA	20100211	LSPB	+	published / reissued	
US2010034761 AA	20120919	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; WEHNER, ANN; JOERGER, MELISSA; AND OTHERS; SIGNING DATES FROM 20070424 TO 20070427; REEL/FRAME:028989/0341
US2010233300 AA	20100916	LSPB	+	published / reissued	
US2010233300 AA	20110512	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; POLADI, RAJA HARI PRASAD R.; AND OTHERS; SIGNING DATES FROM 20070424 TO 20070427; REEL/FRAME:026266/0195
US2012071390 AA	20120322	LSPB	+	published / reissued	
US2013071535 AA	20130321	LSPB	+	published / reissued	
US2013071535 AA	20140407	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; JOERGER, MELISSA; MILLER, ROBERT; AND OTHERS; SIGNING DATES FROM 20120503 TO 20120527; REEL/FRAME:032615/0214
US2013071535 AA	20151216	LSES	NFA1	Non Final Action Mailed	
US2013071535 AA	20170206	LSAL	NAF1	Notice of Appeal Filed	
US2013071535 AA	20170206	LSAL	NAF1	Notice of Appeal Filed	
US2013071535 AA	20170915	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013210934 AA	20130815	LSPB	+	published / reissued	
US2013303423 AA	20131114	LSPB	+	published / reissued	
US2013303423 AA	20140128	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; JOERGER, MELISSA; MILLER, ROBERT; AND OTHERS; SIGNING DATES FROM 20130422 TO 20130806; REEL/FRAME:032064/0747
US2014326923 AA	20141106	LSPB	+	published / reissued	
US2014326923 AA	20150129	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MILLER, ROBERT; DESALVO, JOSEPH; FENYVESI,

					GYORGYI; AND OTHERS; SIGNING DATES FROM 20141023 TO 20141108; REEL/FRAME:034845/0700
US2014328938 AA	20141106	LSPB	+	published / reissued	
US2014328938 AA	20141210	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MILLER, ROBERT; DESALVO, JOSEPH; FENYVESI, GYORGYI; AND OTHERS; SIGNING DATES FROM 20141016 TO 20141017; REEL/FRAME:034451/0616
US2014328938 AA	20170501	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2015125403 AA	20150507	LSPB	+	published / reissued	
US2015125403 AA	20151201	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JOERGER, MELISSA; FENYVESI, GYORGYI; POLADI, RAJA HARI; AND OTHERS; SIGNING DATES FROM 20150609 TO 20150817; REEL/FRAME:037178/0374
US2015125403 AA	20170427	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2017216171 AA	20170803	LSPB	+	published / reissued	
US2017216171 AA	20170816	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WEHNER, ANN; FENYVESI, GYORGYI; MUSKA, CARL F.; AND OTHERS; SIGNING DATES FROM 20070424 TO 20070523; REEL/FRAME:043304/0001
US7759393 BB	20100720	LSGT	+	granted / extensions (spc, cpc, pte)	
US7759393 BB	20100630	LSGT	PAT1	Patented Case	
US7759393 BB	20140115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7759393 BB	20180302	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, LARGE ENTITY (ORIGINAL EVENT CODE: M1555)
US7759393 BB	20180302	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7759393 BB	20270501	PEXP		Calculated Patent Term Expiry (PTA 78 days and a terminal disclaimer has been filed)	
US7960575 BB	20110614	LSGT	+	granted / extensions (spc, cpc, pte)	
US7960575 BB	20110525	LSGT	PAT1	Patented Case	
US7960575 BB	20111115	LSRE	CC	CERTIFICATE OF CORRECTION	
US7960575 BB	20141113	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7960575 BB	20290904	PEXP		Calculated Patent Term Expiry (PTA 935 days)	
US7972530 BB	20110705	LSGT	+	granted / extensions (spc, cpc, pte)	

US7972530 BB	20110615	LSGT	PAT1	Patented Case	
US7972530 BB	20141205	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7972530 BB	20290421	PEXP		Calculated Patent Term Expiry	
US7988883 BB	20110802	LSGT	+	granted / extensions (spc, cpc, pte)	
US7988883 BB	20110713	LSGT	PAT1	Patented Case	
US7988883 BB	20141105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7988883 BB	20270212	PEXP		Calculated Patent Term Expiry	
US8048920 BB	20111101	LSGT	+	granted / extensions (spc, cpc, pte)	
US8048920 BB	20111012	LSGT	PAT1	Patented Case	
US8048920 BB	20150417	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8048920 BB	20300525	PEXP		Calculated Patent Term Expiry	
US8309116 BB	20121113	LSGT	+	granted / extensions (spc, cpc, pte)	
US8309116 BB	20121024	LSGT	PAT1	Patented Case	
US8309116 BB	20160503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8309116 BB	20310730	PEXP		Calculated Patent Term Expiry (PTA 653 days)	
US8436046 BB	20130507	LSGT	+	granted / extensions (spc, cpc, pte)	
US8436046 BB	20130417	LSGT	PAT1	Patented Case	
US8436046 BB	20130830	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; JOERGER, MELISSA; MILLER, ROBERT; AND OTHERS; SIGNING DATES FROM 20111107 TO 20111122; REEL/FRAME:031115/0598
US8436046 BB	20161109	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8436046 BB	20310921	PEXP		Calculated Patent Term Expiry	
US8598231 BB	20131203	LSGT	+	granted / extensions (spc, cpc, pte)	
US8598231 BB	20131008	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUPONT TATE & LYLE BIO PRODUCTS COMPANY, LLC, DELA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FENYVESI, GYORGYI; JOERGER, MELISSA; MILLER, ROBERT; AND OTHERS; SIGNING DATES FROM 20130711 TO 20130806; REEL/FRAME:031361/0812
US8598231 BB	20131113	LSGT	PAT1	Patented Case	
US8598231 BB	20170605	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8598231 BB	20330315	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US8802729 BB	20140812	LSGT	+	granted / extensions (spc, cpc, pte)	
US8802729 BB	20140723	LSGT	PAT1	Patented Case	
US8802729 BB	20180215	LSFE	FEPP	FEE PAYMENT	TEXT : SURCHARGE FOR LATE

				PROCEDURE	PAYMENT, LARGE ENTITY (ORIGINAL EVENT CODE: M1554)
US8802729 BB	20180215	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8802729 BB	20330315	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9375390 BB	20160628	LSGT	+	granted / extensions (spc, cpc, pte)	
US9375390 BB	20151215	LSES	NFA1	Non Final Action Mailed	
US9375390 BB	20160527	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US9375390 BB	20160608	LSGT	PAT1	Patented Case	
US9375390 BB	20340714	PEXP		Calculated Patent Term Expiry	
US9668951 BB	20170606	LSGT	+	granted / extensions (spc, cpc, pte)	
US9668951 BB	20170517	LSGT	PAT1	Patented Case	
US9668951 BB	20350907	PEXP		Calculated Patent Term Expiry (PTA 420 days and a terminal disclaimer has been filed)	
WO07095255 A2	20070823	LSPB	+	published / reissued	
WO07095255 A3	20080811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008554433 COUNTRY OF REF DOCUMENT : JP
WO07095255 A3	20080812	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO07095255 A3	20080927	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200780011301.2 COUNTRY OF REF DOCUMENT : CN
WO07095261 A2	20070823	LSPB	+	published / reissued	
WO07095261 A2	20070921	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2601875 COUNTRY OF REF DOCUMENT : CA
WO07095261 A3	20080812	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO07095261 A3	20090325	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 07750671 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO07095262 A2	20070823	LSPB	+	published / reissued	
WO07095262 A2	20080811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008554434 COUNTRY OF REF DOCUMENT : JP
WO07095262 A2	20080812	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08061187 A1	20080522	LSPB	+	published / reissued	
WO08061187 A1	20090516	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08061187 A1	20091209	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 07864463 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO08123845 A2	20081016	LSPB	+	published /	

WO08123845 A2	20080811	LSNP	+WWE	reissued WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009509554 COUNTRY OF REF DOCUMENT : JP
WO08123845 A2	20080812	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

61) Family number: 44926972 (US2010239712A)

Title: FOOD COMPOSITIONS OF MICROALGAL BIOMASS

Abstract: Source: US2010239712A [EN] The invention provides algal biomass, algal oil, food compositions comprising microalgal biomass, whole microalgal cells, and/or microalgal oil in combination with one or more other edible ingredients, and methods of making such compositions by combining algal biomass or algal oil with other edible ingredients. In preferred embodiments, the microalgal components are derived from microalgal cultures grown and propagated heterotrophically in which the algal cells comprise at least 10 percent algal oil by dry weight.

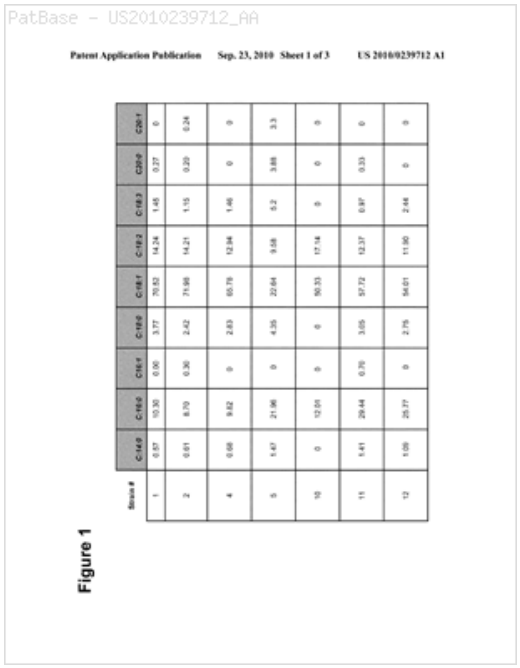


Figure 1

Classifications:

International (IPC 8-9): A21D10/00 A21D13/00 A21D2/08 A21D2/16 A21D2/26 A21D2/36 A23B4/03 A23B5/00 A23C11/10 A23C15/00 A23C15/12 A23C9/12 A23C9/13 A23D7/00 A23D7/005 A23D9/00 A23D9/007 A23D9/02 A23G1/44 A23G1/56 A23G9/32 A23G9/42 A23G9/44 A23G9/52 A23J1/00 A23J3/04 A23J3/20 A23K1/00 A23K1/14 A23K1/16 A23K1/18 A23K10/00 A23K10/30 A23K10/37 A23K20/00 A23K20/158 A23K50/10 A23K50/30 A23K50/75 A23K50/80 A23L1/00 A23L1/0532 A23L1/09 A23L1/10 A23L1/16 A23L1/164 A23L1/212 A23L1/221 A23L1/24 A23L1/28 A23L1/30 A23L1/305 A23L1/308 A23L1/314 A23L1/317 A23L1/32 A23L1/337 A23L1/39 A23L1/40 A23L13/40 A23L15/00 A23L17/60 A23L2/00 A23L2/38 A23L2/52 A23L2/66 A23L23/00 A23L23/10 A23L27/60 A23L31/00 A23L33/00 A23L33/10 A23L33/105 A23L33/115 A23L33/12 A23L33/17 A23L33/18 A23L33/185 A23L33/21 A23L5/00 A23L7/109 A23L7/126 A23L7/13 A61K31/175 A61K31/715 A61K35/748 A61K47/14 A61K8/02 A61K8/73 A61K8/97 A61Q19/00 A61Q19/08 B65D85/72 C08B37/00 C08L5/00 C11B1/02 C11B1/04 C11B1/06 C11B1/10 C11B5/00 C11C3/00 C12N1/00 C12N1/06 C12N1/12 C12N13/00 C12P C12P19/04 C12P7/64 C12Q1/04 (Advanced/Invention);
A21D2/16 A23D7/00 A23K1/00 A23K1/16 A23L1/164 A23L1/24 A23L1/305 A23L1/308 A23L1/314 A23L1/32 A23L1/337 A23L1/39 A23L2/52 A61K38/00 C12N1/06 C12N1/12 C12N15/09 C12P7/64 (Advanced/Non-invention);
A23D7/005 A23D9/007 A23L1/30 A23L29/00 A23L33/00 A23L35/00 A61K31/17 C12P7/64 (Core/Invention);
A23B A23D C12P (Subclass/Invention)

CPC: A23L1/30 A61K31/593 A61K9/14 A61K31/015 A61K31/05 A61K31/07 A61K31/122 A61K31/19 A61K31/202 A61K31/22 A61K31/23 A61K31/355 A61K31/375 A61K31/60 A61K31/715 A61K36/05 A61K45/06 A61K2800/92 A61Q19/00 C08B37/006 C12N1/12 A61K8/0241 A61K2800/412 A61K2800/654 A61Q19/08 C08B37/0003 C08B37/0036 C08L5/00 Y02W90/11 A61K8/73 C12P19/04 Y10T428/2982 A23K10/16 A23K20/158 A23K50/20 A23K50/40 A23K20/10 A21D13/066 A21D10/00 A21D2/267 A23C9/133 A23C21/08 C11B5/0035 C11C3/12 A23D7/001 A23D7/003 A23D7/0053 A23D7/0056 C11B1/02 C11B1/04 Y02E50/13 A23L29/065 A23L7/109 A23L7/135 A23L33/10 C12N1/066 C12N13/00 A23L13/42 A23L13/46 A23L2/52 A23L7/126 A23L7/13 A23L13/424 A23L15/30 A23L17/60 A23L23/00 A23L27/60 A23L33/115 A23L33/17 A23L33/21 A21D2/36 A23V2002/00 A23L33/185 A21D2/165 A21D13/04 A21D13/40 A61K8/9706 Y02A40/818 C11B1/06 A23K10/37 A23K50/10 A23K50/30 A23K50/75 A23K50/80 C11B1/10 C11C3/003 Y02P60/877

European: A21D10/00 A21D13/06D2 A21D2/16D A21D2/26F A23C21/08 A23C9/133 A23D7/005N A23D7/005S A23D7/00B A23D7/00D A23K1/00C2 A23K1/14C A23K1/16I A23K1/16M A23K1/18K A23K1/18L2 A23K1/18M1 A23K1/18N A23K1/18S A23L1/03M A23L1/16 A23L1/164C A23L1/164E A23L1/164F A23L1/24 A23L1/305 A23L1/308 A23L1/30C A23L1/314B2 A23L1/314B4 A23L1/32F A23L1/337 A23L1/39 A23L2/52 A61K31/015 A61K31/05 A61K31/07 A61K31/122 A61K31/19 A61K31/202 A61K31/22 A61K31/23 A61K31/355 A61K31/375 A61K31/593 A61K31/60 A61K31/715 A61K36/05 A61K45/06 A61K8/73 A61Q19/00 C08B37/00K C08B37/00P C11B1/02 C11B1/04 C11B1/06 C11B1/10 C11B5/00F4 C11C3/00B C11C3/12 C12N1/12 C12P19/04 K23V2/00 K23V200/318 K23V250/510 K61K800/92 K61K9/14 Y02E50/13

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Publication number	Publication date	Application number	Application date
AU2009303354 AA	20100422	AU20090303354	20091014
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Priority:

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Probable Assignee: ALGENIST HOLDINGS INC

Assignee(s): (std): ARANA FELIPE ; AVILA JEFF ; BALIU ENRIQUE ; BROOKS GEOFFREY ; FRANKLIN SCOTT ; DECKER STEPHEN M ; CORAGLIOTTI ANNA ; DAY ANTHONY G ; NORRIS LESILE M ; CORBION BIOTECH INC ; SOLAZYME INC ; RAKITSKY WALTER ; PIECHOCKI JOHN ; ZDANIS DANA ; WITTENBERG JON ; NORRIS LESLIE M ; TERRAVIA HOLDINGS INC

Assignee(s): SIENA LENDING GROUP LLC ; N A ; ALGENIST HOLDINGS INC

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Inventor(s): DECKER STEPHEN ; LESILE M NORRIS

Agent(s): DAVIES COLLISON CAVE; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SMART AND BIGGAR; MARSHALL CAMERON JOHN; SPRUSON AND FERGUSON ASIA PTE LTD; TOWNSEND AND TOWNSEND AND CREW LLP SOLAZYME INC; ALSTON AND BIRD LLP; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP; TERMES LANCE A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2009303354 AA	20100422	LSPB	+	published / reissued	
AU2009303354 BB	20150903	LSGT	+	granted / extensions (spc, cpc, pte)	
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AU2009303354 BB	20170202	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 12 APR 2016
AU2009303354 BB	20170518	LSRE	DA2	APPLICATIONS FOR AMENDMENT SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 10 OCT 2016
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AU2009303354 CA	20170810	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 10 OCT 2016 AND 15 MAR 2017
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AU2009303354 CI	20180118	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : CORBION BIOTECH, INC. OLDPARTY : FORMER APPLICANT(S): TERRAVIA HOLDINGS, INC.

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AU2010236491 AA	20101021	LSPB	+	published / reissued	
AU2010236491 BB	20151001	LSGT	+	granted / extensions (spc, cpc, pte)	
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AU2015261580 AA	20151210	LSPB	+	published / reissued	
AU2015261580 BB	20171005	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP2418959 A1	20120222	LSPB	+	published / reissued	
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EP2418959 A1	20150527	LSES	+RA4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20150428
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 31/175 20060101AFI20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/164 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/337 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/314 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/39 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/305 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/308 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/30 20060101ALI20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/32 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/24 20060101ALN20150421BHEP
EP2418959 A1	20150527	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 2/52 20060101ALN20150421BHEP
EP2418959 A1	20160928	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC.
EP2418959 A1	20170104	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20161130
EP2419520 A2	20120222	LSPB	+	published / reissued	
EP2419520 A2	20120222	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111114
EP2419520 A4	20160810	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20160707
EP2419520 A4	20160810	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C12N 1/00 20060101ALI20160701BHEP

EP2419520 A4	20160810	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C12P 7/64 20060101AFI20160701BHEP
EP2419520 A4	20160928	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC.
HK1164061 A1	20151113	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1164061 A1	20320523	PEXP		Calculated Patent Term Expiry	
HK1182595 A1	20151120	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1182595 A1	20330826	PEXP		Calculated Patent Term Expiry	
IN03610DN2011 A	20120406	LSPB	+	published / reissued	
IN08084DN2011 A	20130104	LSPB	+	published / reissued	
IN08086DN2011 A	20130104	LSPB	+	published / reissued	
JP2012505656 T2	20120308	LSPB	+	published / reissued	
JP2012505656 T2	20121013	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20121012
JP2012505656 T2	20131009	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20131008
JP2012505656 T2	20140109	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140108
JP2012505656 T2	20140128	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20140108
JP2012505656 T2	20140826	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20140825
JP2012505656 T2	20141226	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20141225
JP2012505656 T2	20150120	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20141225
JP2012505656 T2	20150127	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20150126
JP2012505656 T2	20150313	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2012505656 T2	20150319	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20150318
JP2012505656 T2	20150416	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20150410
JP2012505656 T2	20150417	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5731982 COUNTRY OF REF DOCUMENT : JP

JP2012523843 T2	20121011	LSPB	+	published / reissued	
JP2012523843 T2	20130413	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130412
JP2012523843 T2	20130413	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20130412
JP2012523843 T2	20140203	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140131
JP2012523843 T2	20140501	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140430
JP2012523843 T2	20140521	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20140430
JP2012523843 T2	20141009	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20141008
JP2012523843 T2	20141023	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20141017
JP2014061009 A2	20140410	LSPB	+	published / reissued	
JP2014061009 A2	20140110	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20140108
JP2014061009 A2	20150325	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150324
JP2014061009 A2	20150924	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150924
JP2014061009 A2	20160229	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20160226
JP2014061009 A2	20160725	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	TEXT : JAPANESE INTERMEDIATE CODE: A524 EFFECTIVE DATE : 20160725
JP2014061009 A2	20160810	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20160725
JP2014061009 A2	20161005	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20161005
JP2014061009 A2	20170203	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	TEXT : JAPANESE INTERMEDIATE CODE: A524 EFFECTIVE DATE : 20170203
JP2014061009 A2	20170313	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20170223
JP2014061009 A2	20170315	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20170314
JP2014061009 A2	20170515	LSAL	-A912	REMOVAL OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A912 EFFECTIVE DATE : 20170512

JP2014138620 A2	20140731	LSPB	+	published / reissued	
JP2014138620 A2	20140502	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20140430
JP2014138620 A2	20141129	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20141128
JP2014138620 A2	20150624	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150623
JP2014138620 A2	20151224	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20151224
JP2014138620 A2	20160118	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20151224
JP2014138620 A2	20160502	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20160502
JP2014138620 A2	20160902	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20160902
JP2014138620 A2	20161003	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20160913
JP2014138620 A2	20161007	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20161006
JP2014138620 A2	20161114	LSAL	-A912	REMOVAL OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A912 EFFECTIVE DATE : 20161111
JP2014138620 A2	20161227	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20161227
JP2016182144 A2	20161020	LSPB	+	published / reissued	
JP2016182144 A2	20160727	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20160725
JP2016182144 A2	20170621	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20170621
JP2016198117 A2	20161201	LSPB	+	published / reissued	
JP2016198117 A2	20160906	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20160902
JP2016198117 A2	20170626	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20170626
JP5636039 B2	20141203	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5636039 B2	20141016	LSGT	+A01	特許査定書 Decision of patent grant	
JP5636039 B2	20141021	LSFE	R100	特許料納付書 Patent fee payment form	
JP5636039 B2	20141024	LSGT	+R150	特許証 Patent certificate	
JP5636039 B2	20160823	LSAS	S533	WRITTEN REQUEST FOR	TEXT : JAPANESE INTERMEDIATE CODE: R313533

				REGISTRATION OF CHANGE OF NAME	
JP5636039 B2	20160831	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5636039 B2	20171012	LSFE	R20	特許料納付書 Patent fee payment form	
JP5636039 B2	20171017	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5636039 B2	20300414	PEXP		Calculated Patent Term Expiry	
JP5731982 B2	20150610	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5731982 B2	20160823	LSAS	S533	WRITTEN REQUEST FOR REGISTRATION OF CHANGE OF NAME	TEXT : JAPANESE INTERMEDIATE CODE: R313533
JP5731982 B2	20160831	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5731982 B2	20291014	PEXP		Calculated Patent Term Expiry	
KR101769121 B1	20170817	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101769121 B1	20300414	PEXP		Calculated Patent Term Expiry	
KR20110138407 A	20111227	LSPB	+	published / reissued	
KR20110138407 A	20150414	LSES	A201	REQUEST FOR EXAMINATION	
KR20110138407 A	20161117	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20110138407 A	20170511	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20110138407 A	20170810	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20170096218 A	20170823	LSPB	+	published / reissued	
KR20170096218 A	20170907	LSES	A201	REQUEST FOR EXAMINATION	
KR20170096218 A	20171206	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
MX2011004003 A1	20110620	LSPB	+	published / reissued	
MX2011004003 A1	20160603	LSGT	+FG	GRANT OR REGISTRATION	
MX2011010824 A1	20111206	LSPB	+	published / reissued	
MX2011010824 A1	20140108	LSGT	+FG	GRANT OR REGISTRATION	
MX2011010829 A1	20120920	LSPB	+	published / reissued	
MX2011010829 A1	20160603	LSGT	+FG	GRANT OR REGISTRATION	
MX339098 B	20160511	LSGT	+	granted / extensions (spc, cpc, pte)	
MX339098 B	20300414	PEXP		Calculated Patent Term Expiry	
MX339664 B	20160603	LSGT	+	granted / extensions (spc, cpc, pte)	
MX339664 B	20291014	PEXP		Calculated Patent Term Expiry	

MX339665 B	20160603	LSGT	+	granted / extensions (spc, cpc, pte)	
MX339665 B	20300414	PEXP		Calculated Patent Term Expiry	
SG10201401472Y A1	20140828	LSPB	+	published / reissued	
SG175722 A1	20111229	LSPB	+	published / reissued	
TH120337 A	20130128	LSPB	+	published / reissued	
US2010239712 AA	20100923	LSPB	+	published / reissued	
US2010239712 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20091217 TO 20100119; REEL/FRAME:023846/0941
US2010239712 AA	20130503	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010239712 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010297292 AA	20101125	LSPB	+	published / reissued	
US2010297292 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0250
US2010297292 AA	20130503	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010297292 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010297295 AA	20101125	LSPB	+	published / reissued	
US2010297295 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0058
US2010297295 AA	20130422	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010297295 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509

US2010297296 AA	20101125	LSPB	+	published / reissued	
US2010297296 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0096
US2010297296 AA	20150716	LSAL	NAF1	Notice of Appeal Filed	
US2010297296 AA	20150716	LSAL	NAF1	Notice of Appeal Filed	
US2010297296 AA	20160219	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010297296 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010297323 AA	20101125	LSPB	+	published / reissued	
US2010297323 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0286
US2010297323 AA	20151008	LSAL	NAF1	Notice of Appeal Filed	
US2010297323 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010297323 AA	20170613	LSES	NFA1	Non Final Action Mailed	
US2010297323 AA	20171103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CORBION BIOTECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:044424/0211 EFFECTIVE DATE : 20170928
US2010297325 AA	20101125	LSPB	+	published / reissued	
US2010297325 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0203
US2010297325 AA	20130513	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010297325 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME;

					ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010297331 AA	20101125	LSPB	+	published / reissued	
US2010297331 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0142
US2010297331 AA	20130503	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010297331 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010303957 AA	20101202	LSPB	+	published / reissued	
US2010303957 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0426
US2010303957 AA	20130422	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010303957 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010303961 AA	20101202	LSPB	+	published / reissued	
US2010303961 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0375
US2010303961 AA	20130422	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010303961 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010303989 AA	20101202	LSPB	+	published / reissued	
US2010303989 AA	20100126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY;

					FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023851/0027
US2010303989 AA	20151008	LSAL	NAF1	Notice of Appeal Filed	
US2010303989 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2010303989 AA	20170613	LSES	NFA1	Non Final Action Mailed	
US2010303989 AA	20171103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CORBION BIOTECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:044424/0211 EFFECTIVE DATE : 20170928
US2010303990 AA	20101202	LSPB	+	published / reissued	
US2010303990 AA	20100128	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100108 TO 20100119; REEL/FRAME:023863/0379
US2010303990 AA	20130503	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010303990 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2012128851 AA	20120524	LSPB	+	published / reissued	
US2012128851 AA	20100505	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BROOKS, GEOFFREY; FRANKLIN, SCOTT; AVILA, JEFF; AND OTHERS; SIGNING DATES FROM 20100430 TO 20100504; REEL/FRAME:024341/0313
US2012128851 AA	20151023	LSAL	NAF1	Notice of Appeal Filed	
US2012128851 AA	20151023	LSAL	NAF1	Notice of Appeal Filed	
US2012128851 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2012128851 AA	20160531	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2012130099 AA	20120524	LSPB	+	published / reissued	
US2012130099 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME;

					ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2012130099 AA	20170507	LSAL	NAF1	Notice of Appeal Filed	
US2012130099 AA	20170507	LSAL	NAF1	Notice of Appeal Filed	
US2012130099 AA	20171002	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
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US2012130099 AA	20171221	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
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US2012130099 AA	20171225	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2012130099 AA	20171226	LSFE	+AWA3	Awaiting TC Resp, Issue Fee Payment Verified	
US2012202768 AA	20120809	LSPB	+	published / reissued	
US2013122180 AA	20130516	LSPB	+	published / reissued	
US2013122180 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2013122180 AA	20170118	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FRANKLIN, SCOTT; AVILA, JEFF; DECKER, STEPHEN M.; AND OTHERS; SIGNING DATES FROM 20070530 TO 20170116; REEL/FRAME:041010/0248
US2013122180 AA	20170308	LSES	NFA1	Non Final Action Mailed	
US2013122180 AA	20170918	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013122180 AA	20171103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CORBION BIOTECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:044424/0211 EFFECTIVE DATE : 20170928
US2015150776 AA	20150604	LSPB	+	published / reissued	
US2015150776 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2015150776 AA	20161215	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : ALGENIST HOLDINGS, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:040995/0948 EFFECTIVE DATE : 20160816
US2015150776 AA	20170720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SIENA LENDING GROUP, LLC, CONNECTICUT OLDPARTY : SECURITY INTEREST; ASSIGNOR:ALGENIST BRANDS LLC; REEL/FRAME:043055/0421 EFFECTIVE DATE : 20170714
US2016324167 AA	20161110	LSPB	+	published / reissued	
US2016324167 AA	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US2016324167 AA	20171103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CORBION BIOTECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:044424/0211 EFFECTIVE DATE : 20170928
US8927522 BB	20150106	LSGT	+	granted / extensions (spc, cpc, pte)	
US8927522 BB	20100505	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CORAGLIOTTI, ANNA; FRANKLIN, SCOTT; DAY, ANTHONY G.; AND OTHERS; SIGNING DATES FROM 20100429 TO 20100504; REEL/FRAME:024341/0303
US8927522 BB	20141217	LSGT	PAT1	Patented Case	
US8927522 BB	20150512	LSRE	CC	CERTIFICATE OF CORRECTION	
US8927522 BB	20160523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TERRAVIA HOLDINGS, INC., CALIFORNIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:SOLAZYME, INC.; REEL/FRAME:038794/0867 EFFECTIVE DATE : 20160509
US8927522 BB	20161215	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALGENIST HOLDINGS, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:TERRAVIA HOLDINGS, INC.; REEL/FRAME:040992/0522 EFFECTIVE DATE : 20160816
US8927522 BB	20170720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SIENA LENDING GROUP, LLC, CONNECTICUT OLDPARTY : SECURITY INTEREST; ASSIGNOR:ALGENIST BRANDS LLC; REEL/FRAME:043055/0421 EFFECTIVE DATE : 20170714
US8927522 BB	20300711	PEXP		Calculated Patent Term Expiry (PTA 104 days)	
US9896642 BB	20180220	LSGT	+	granted / extensions (spc, cpc, pte)	
US9896642 BB	20100603	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SOLAZYME, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

					ASSIGNORS:WITTENBERG, JON; ARANA, FELIPE; REEL/FRAME:024482/0493 EFFECTIVE DATE : 20100416
US9896642 BB	20180221	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.)
US9896642 BB	20300414	PEXP		Calculated Patent Term Expiry	
WO10045368 A2	20100422	LSPB	+	published / reissued	
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WO10045368 A3	20110413	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011532219 COUNTRY OF REF DOCUMENT : JP
WO10045368 A3	20110413	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2740415 COUNTRY OF REF DOCUMENT : CA
WO10045368 A3	20110414	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10045368 A3	20110512	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2009303354 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20091014 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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WO10111710 A1	20110927	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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WO10120923 A1	20111013	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012506177 COUNTRY OF REF DOCUMENT : JP
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WO10120923 A1	20111102	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13263724 COUNTRY OF REF DOCUMENT : US
WO10120923 A1	20111110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010236491 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20100414 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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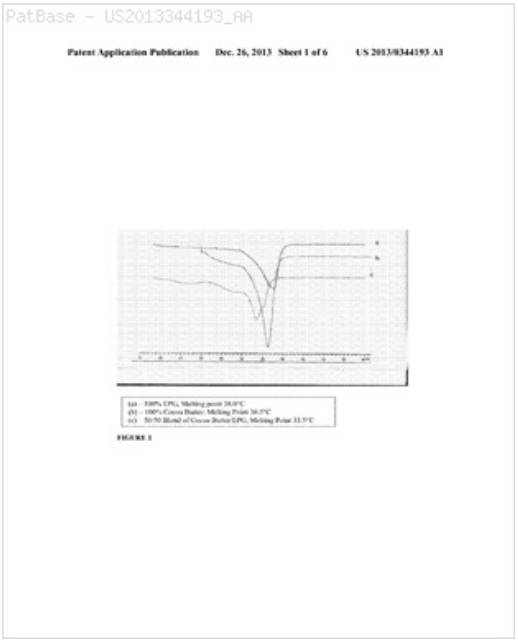
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WO10120939 A2	20101021	LSPB	+	published / reissued	
WO10120939 A3	20111011	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 215719 COUNTRY OF REF DOCUMENT : IL
WO10120939 A3	20111013	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2758924 COUNTRY OF REF DOCUMENT : CA
WO10120939 A3	20111014	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10120939 A3	20111110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010236412 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20100414 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10120939 A3	20111116	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13264379 COUNTRY OF REF DOCUMENT : US
WO10120939 A3	20150825	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI1014451 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20111013
ZA201107514 A	20121227	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201107514 A	20311012	PEXP		Calculated Patent Term Expiry	

62) Family number: 55407746 (US2013344193A)

Title: EUTECTIC MIXTURES OF ESTERIFIED PROPOXYLATED GLYCEROLS WITH DIGESTIBLE FATS

Abstract: Source: US2013344193A [EN] Disclosed are methods for producing esterified propoxylated glycerols and eutectic mixtures containing one or more esterified propoxylated glycerols and one or more digestible fats. Food products containing the eutectic mixtures are also disclosed.

Classifications:
International (IPC 8-9): A21D13/06 A21D2/08 A21D2/16 A21D2/18 A23D7/01 A23D7/015 A23D9/007 A23D9/013 A23G1/32 A23G1/36 A23G3/40 A23G9/32 A23L1/217 A23L1/30 A23L1/308 A23L1/38 A23L33/115 A23L33/21 A23L33/25 C07C67/03 C07H11/00 C07H13/02 (Advanced/Invention);
A23L1/212 A23L1/217 C07C67/03 (Advanced/Non-invention)
CPC: A23D9/013 A21D2/08 A21D2/16 A21D13/068 A23D7/011 A23D7/013 A23D7/015 A23G1/36 A23G3/40 A23V2200/124 A23D9/007 A23G1/32 C07C67/03 A21D2/181 A23L19/09 A23L19/18 A23L33/12 A23L33/26 A23V2002/00 A23L33/21
US: 426/2 426/549 426/566 426/607 426/611 426/631 426/633 426/637 426/660 536/115 536/119



Family:

Publication number	Publication date	Application number	Application date
CA2877120 AA	20141217	CA20132877120	20130620
CA2877120 C	20160405	CA20132877120	20130620
GB201501006 A0	20150304	GB20150001006	20130620
GB2519025 A1	20150408	GB20150001006	20130620
GB2519025 B2	20171115	GB20150001006	20130620
US2013344193 AA	20131226	US20120529637	20120621
US2014205737 AA	20140724	US20130064851	20131028
US8715764 BB	20140506	US20120529637	20120621
US9011961 BB	20150421	US20130064851	20131028
WO13192436 A1	20131227	WO2013US46864	20130620

Priority:
US20120529637 20120621 US20130064851 20131028 WO2013US46864 20130620

Probable Assignee: KANSAS STATE UNIV INST FOR COMMERCIALIZATION

Assignee(s): (std): FLOWERS JAMES LOUIS ; KANSAS STATE UNIV INST FOR COMMERCIALIZATION ; ROWE DAVID STEWART ; OVERMAN DANA ; STRECKER LEOPOLD ; CHOCO FINESSE LLC ; KANSAS STATE UNIV INST FOR COMMERCIALIZATION AND CHOCO FINESSE LLC

Assignee(s): CHOCO FINESSE LLC12403 W. 101ST TERRACELENEXAKS66215US ; KANSAS STATE UNIV INST FOR COMMERCIALIZATION2005 RESEARCH PARK CIRCLEMANHATTANKS66502US ; ROWE DAVID

Inventor(s): (std): DANA OVERMAN ; DAVID ROWE ; FLOWERS JAMES LOUIS ; JAMES LOUIS FLOWERS ; LEOPOLD STRECKER ; OVERMAN DANA ; ROWE DAVID ; ROWE DAVID STEWART ; STRECKER LEOPOLD

Inventor(s): STRECKER LEOPOLDUS ; ROWE DAVIDUS ; OVERMAN DANAUS ; FLOWERS JAMES LOUISUS

Agent(s): BLAKE CASSELS AND GRAYDON LLP; RATNERPRESTIA; FITZPATRICK LYNDA M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2877120 AA	20141217	LSPB	+	published / reissued	
CA2877120 AA	20150213	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20150204

CA2877120 C	20160405	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2877120 C	20330620	PEXP		Calculated Patent Term Expiry	
GB2519025 A1	20150408	LSPB	+	published / reissued	
GB2519025 B2	20171115	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2519025 B2	20330620	PEXP		Calculated Patent Term Expiry	
US2013344193 AA	20131226	LSPB	+	published / reissued	
US2014205737 AA	20140724	LSPB	+	published / reissued	
US2014205737 AA	20141202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHOCO FINESSE LLC, KANSAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ROWE, DAVID; FLOWERS, JAMES LOUIS; OVERMAN, DANA; SIGNING DATES FROM 20120822 TO 20120823; REEL/FRAME:034309/0321
US2014205737 AA	20141202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KANSAS STATE UNIVERSITY INSTITUTE FOR COMMERCIALIZ OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:STRECKER, LEOPOLD; REEL/FRAME:034309/0389 EFFECTIVE DATE : 20130301
US8715764 BB	20140506	LSGT	+	granted / extensions (spc, cpc, pte)	
US8715764 BB	20130305	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KANSAS STATE UNIVERSITY INSTITUTE FOR COMMERCIALIZ OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:STRECKER, LEOPOLD; REEL/FRAME:029925/0272 EFFECTIVE DATE : 20130301
US8715764 BB	20130305	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHOCO FINESSE LLC, KANSAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ROWE, DAVID; FLOWERS, JAMES LOUIS; OVERMAN, DANA; SIGNING DATES FROM 20120822 TO 20120823; REEL/FRAME:029926/0338
US8715764 BB	20140416	LSGT	PAT1	Patented Case	
US8715764 BB	20171026	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8715764 BB	20320621	PEXP		Calculated Patent Term Expiry	
US9011961 BB	20150421	LSGT	+	granted / extensions (spc, cpc, pte)	
US9011961 BB	20150401	LSGT	PAT1	Patented Case	
US9011961 BB	20331028	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO13192436 A1	20131227	LSPB	+	published / reissued	
WO13192436 A1	20141217	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2877120 COUNTRY OF REF DOCUMENT : CA
WO13192436 A1	20141222	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13192436 A1	20150121	LSNP	ENP	ENTRY INTO	TEXT : PCT FILING DATE = 20130620

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WO13192436 A1	20150121	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1501006.9 COUNTRY OF REF DOCUMENT : GB
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63) Family number: 57421163 (US2014271877A)

Title: SUBSTANTIALLY SURFACTANT-FREE, SUBMICRON DISPERSIONS OF HYDROPHOBIC AGENTS CONTAINING HIGH LEVELS OF WATER MISCIBLE SOLVENT

Abstract: Source: US2014271877A [EN] A composition is provided to apply to the skin, hair, or external mucosa of a human or animal, and a method for using the composition. The composition includes for example a composition for application to skin, hair or external mucosa comprising: a) dispersed submicron particles of hydrophobic agent(s) having average particle size from 100 nm to 999 nm; b) an aqueous-solvent fluid; and c) rheological modifying agent(s); wherein the aqueous-solvent fluid is 10 percent to 95 percent wt. of one or more water miscible solvent(s), 4.99 percent to 89.99 percent wt. water, and 0.01 percent to 10 percent wt. of the rheological modifying agent(s); and wherein the hydrophobic agents comprise 0.01 to 70 percent wt. of the skin, hair or mucosal composition; and wherein the composition is substantially surfactant-free.

Classifications:

International (IPC 8-9): A01N25/04 A01N31/08 A01N55/00 A01N65/08 A21D10/00 A21D2/00 A21D2/16 A21D2/18 A23D7/00 A23D7/005 A23D7/01 A23D9/007 A23D9/013 A23L1/03 A23L13/00 A23L13/40 A23L13/50 A23L19/00 A23L2/00 A23L2/52 A23L2/56 A23L23/00 A23L27/00 A23L27/60 A23L29/00 A23L29/10 A23L3/34 A23L3/44 A23L5/00 A23L7/00 A23L7/196 A61K8/02 A61K8/04 A61K8/06 A61K8/25 A61K8/30 A61K8/34 A61K8/37 A61K8/49 A61K8/73 A61K8/81 A61K8/89 A61K8/891 A61K8/92 A61Q13/00 A61Q17/00 A61Q17/04 A61Q19/00 A61Q19/10 A61Q5/00 A61Q9/02 (Advanced/Invention);
A23L A61K A61Q (Subclass/Invention)

CPC: A23D7/0053 A23D7/011 A23D9/007 A23D9/013 A23L2/56 A23D7/00 A21D2/183 A21D10/002 A23L2/52 A21D2/165 A01N31/08 A01N55/00 A61K8/4946 A61K8/891 A61Q9/02 A61Q13/00 A61Q19/00 A23L1/03 A23L1/1041 A23L1/39 A23L3/44 Y10S977/773 Y10S977/906 A61K8/0212 A61K8/0241 A61K8/042 A61K8/25 A61K8/345 A61K8/73 A61K8/8152 A61K2800/244 A61K2800/28 A61K2800/33 A61K2800/413 A61K2800/48 A61Q17/005 A61Q19/10 A23L7/1963 A23L13/42 A23L13/50 A23L19/00 A23L27/60 A23L27/80 A23L27/13 A23L33/105 A23P10/30 A01N65/08 A61Q19/007 A61K8/922 A61K8/04 A01N25/04 A23V2002/00 A23L29/00 A23L23/00 A23L7/198

US: 1/1 424/401 424/489 424/59 424/78.02 424/78.03 426/506 426/549 426/557 426/589 426/590 426/602 426/604 426/615 426/618 426/622 426/641 426/644

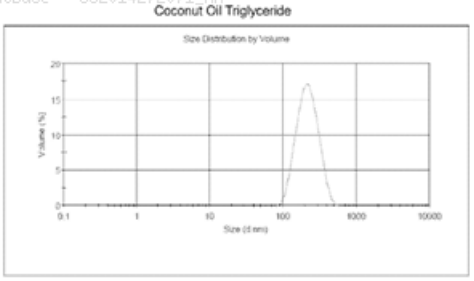


Fig. 1

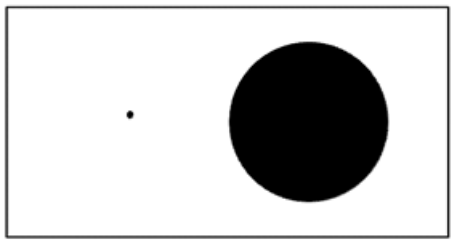


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
AU2014234075 AA	20140925	AU20140234075	20140313
AU2014234075 BB	20171207	AU20140234075	20140313
AU2014239192 AA	20140925	AU20140239192	20140314
BR112015023321 A2	20170718	BR20151123321	20140313
BR112015023340 A2	20170718	BR20151123340	20140314
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CA2906603 AA	20150914	CA20142906603	20140313
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EP2968088 A2	20160120	EP20140770568	20140314
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EP2986151 A1	20160224	EP20140770123	20140313
EP2986151 A4	20161214	EP20140770123	20140313
HK1218498 A1	20170224	HK20160106571	20160608
HK1218626 A1	20170303	HK20160106631	20160608
IN06078CN2015 A	20160701	IN2015CN06078	20151006
IN06181CN2015 A	20160701	IN2015CN06181	20151008
JP2016511011 T2	20160414	JP20160501953T	20140313
JP2016513711 T2	20160516	JP20160502529T	20140314
KR101801243 B1	20171124	KR20157029748	20140313
KR20150132502 A	20151125	KR20157029748	20140313
KR20150133760 A	20151130	KR20157029173	20140314
US2014271877 AA	20140918	US20140211562	20140314
US2014272071 AA	20140918	US20130835642	20130315
US2014322428 AA	20141030	US20140286323	20140523
US2015230487 AA	20150820	US20150698895	20150429
US2016250111 AA	20160901	US20160149675	20160509
US9357770 BB	20160607	US20140211562	20140314
WO14151442 A1	20140925	WO2014US25734	20140313
WO14152782 A2	20140925	WO2014US27727	20140314
WO14152782 A3	20150226	WO2014US27727	20140314

Priority:

US20130801055P 20130315 US20130835642 20130315 US20140286323 20140523

US20140211562 20140314 US20150698895 20150429 US20160149675 20160509
WO2014US25734 20140313 WO2014US27727 20140314

Probable Assignee: LEADING EDGE INNOVATIONS

Assignee(s): (std): LEADING EDGE INNOVATIONS ; LEADING EDGE INNOVATIONS LLC

Assignee(s): ROSS MICHAEL ALAN ; WILMOTT JAMES MICHAEL

Inventor(s): (std): ROSS MICHAEL ALAN ; WILMOTT JAMES MICHAEL

Inventor(s): JAMES MICHAEL WILMOTT ; MICHAEL ALAN ROSS

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; PALLINI GERVASI DIEGO; IMASHITA KATSUHIRO; OKADA KENJI; MOSER; JACKSON ARTHUR E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2014234075 AA	20140925	LSPB	+	published / reissued	
AU2014234075 BB	20171207	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014239192 AA	20140925	LSPB	+	published / reissued	
CA2906594 AA	20150914	LSPB	+	published / reissued	
CA2906594 AA	20160323	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20160315
CA2906603 AA	20150914	LSPB	+	published / reissued	
CA2906603 AA	20160406	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20160310
CN105142422 A	20151209	LSPB	+	published / reissued	
CN105142422 A	20151209	LSPB	+C06	PUBLICATION	
CN105142600 A	20151209	LSPB	+	published / reissued	
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EP2968088 A2	20160120	LSPB	+	published / reissued	
EP2968088 A2	20160120	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20151006
EP2968088 A4	20160817	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20160718
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EP2986151 A1	20160224	LSPB	+	published / reissued	
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JP2016513711 T2	20160309	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20160309
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JP2016513711 T2	20170726	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20170726
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US2014271877 AA	20140317	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : LEADING EDGE INNOVATIONS, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WILMOTT, JAMES MICHAEL; ROSS, MICHAEL ALAN; REEL/FRAME:032458/0639 EFFECTIVE DATE : 20140312
US2014272071 AA	20140918	LSPB	+	published / reissued	
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US2014272071 AA	20170322	LSES	NFA1	Non Final Action Mailed	
US2014322428 AA	20141030	LSPB	+	published / reissued	
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US2015230487 AA	20150529	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEADING EDGE INNOVATIONS, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WILMOTT, JAMES MICHAEL; ROSS, MICHAEL ALAN; REEL/FRAME:035740/0805 EFFECTIVE DATE : 20150520
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US2016250111 AA	20160627	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEADING EDGE INNOVATIONS, LLC, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WILMOTT, JAMES MICHAEL; ROSS, MICHAEL ALAN; REEL/FRAME:039173/0532 EFFECTIVE DATE : 20140312
US2016250111 AA	20170328	LSES	NFA1	Non Final Action Mailed	
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US9357770 BB	20160518	LSGT	PAT1	Patented Case	
US9357770 BB	20340314	PEXP		Calculated Patent Term Expiry	
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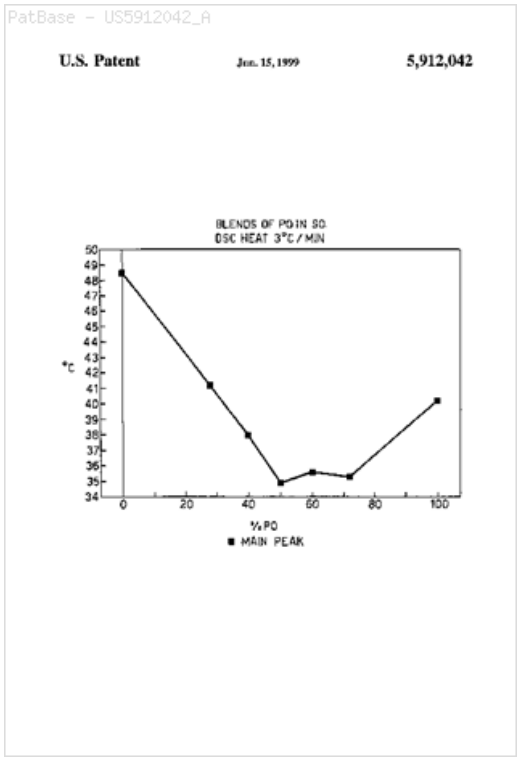
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64) Family number: 11230441 (US5912042A)

Title: Fat blends containing diglycerides

Abstract: Source: US5912042A [EN] PCT No. PCT/EP95/00386 Sec. 371 Date Aug. 8, 1996 Sec. 102(e) Date Aug. 8, 1996 PCT Filed Feb. 2, 1995 PCT Pub. No. WO95/22257 PCT Pub. Date Aug. 24, 1995Fat-blends suitable for food applications are disclosed. These blends contain 10-60 percent diglycerides (A), 90-40 percent triglycerides (B) wherein (A) contains >/=70 percent SU-diglycerides, including high melting diglycerides (>40 DEG C.)(C) and simultaneously a fatty compound (D) so that the melting point of (C+D) is >5 DEG C., lower than the melting point of (C) wherein (B) has an N5</=40 while the total blend has a SAFA-content <40 percent.

Classifications:
International (IPC 8-9): A23D7/00 A23D7/01 A23D7/015 A23D9/00 A23D9/013 A23G3/00 A23G3/34 A23G3/40 C11C3/04 (Advanced/Invention)
International (IPC 1-7): A23D7/00 A23D9/00
CPC: A23D7/011 A23D7/013 A23D7/015 A23D9/013 A23G3/343 A23G3/346 A23G3/40 A23G2200/08
European: A23D7/015 A23D7/01N A23D7/01S A23D9/013 A23G3/00 A23G3/00+D8 A23G3/00K A23G3/00K+D8 A23G3/00M A23G3/00M+D8 A23G3/34C A23G3/34E A23G3/40 K23G200/08
US: 426/601 426/607



Family:

Publication number	Publication date	Application number	Application date
AU199517055 A1	19950904	AU19950017055	19950202
CL1995000260 A1	19960207	CL19950000260	19950217
CL40140 B	19990823	CL19950000260	19950217
DE69504038 D1	19980917	DE19956004038	19950202
DE69504038 T2	19990218	DE19956004038T	19950202
EP0744900 A1	19961204	EP19950908899	19950202
EP0744900 B1	19980812	EP19950908899	19950202
US5912042 A	19990615	US19960687613	19960808
WO9522257 A1	19950824	WO1995EP00386	19950202
ZA9500966 A	19960807	ZA19950000966	19950207

Priority:
EP19940301162 19940218 EP19950908899 19950202 WO1995EP00386 19950202

Probable Assignee: LODERS CROKLAAN BV

Assignee(s): (std): CAIN FREDERICK WILLIAM ; KUIN ADRIANUS JOZEF ; LODERS CROKLAAN BV ; UNILEVER PLC ; PEILOW ANNE CYNTHIA ; QUINLAN PAUL THOMAS

Assignee(s): LODERS CROKLAAN ZAANDIJKERWEG BV ; UNILEVER NV ; UNILEVER N V ; LODERS CROKLAAN B V ; LODERS CROKLAAN B V WORMERVEER NL

Inventor(s): (std): CAIN FREDERICK WILLIAM ; PEILOW ANNE CYNTHIA ; QUINLAN PAUL THOMAS ; KUIN ADRIANUS JOZEF

Inventor(s): PAUL THOMAS QUINLAN ; QUINLAN PAUL THOMAS BEDFORD MK42 8TW GB ; PEILOW ANNE CYNTHIA NORTHAMPTON NN9 7PD GB ; KUIN ADRIANUS JOZEF NL 3124 AL SCHIEDAM NL ; CAIN FREDERICK WILLIAM NL 2271 VL VOORBURG NL ; FREDERICK WILLIAM CAIN ; ADRIANUS JOZEF KUIN ; ANNE CYNTHIA PEILOW

Agent(s): SARGENT

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199517055 A1	19950904	LSPB	+	published / reissued	
CL1995000260 A1	19960207	LSPB	+	published / reissued	
CL40140 B	19990823	LSGT	+	granted / extensions (spc, cpc, pte)	
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DE69504038 T2	20150202	PEXP		Calculated Patent Term Expiry	
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EP0744900 B1	20111118	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20111102
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US5912042 A	19990603	LSGT	PAT1	Patented Case	
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US5912042 A	20101118	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5912042 A	20160808	PEXP		Calculated Patent Term Expiry	
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WO9522257 A1	19960808	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 08687613 COUNTRY OF REF DOCUMENT : US
WO9522257 A1	19961204	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995908899 COUNTRY OF REF DOCUMENT : EP
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WO9522257 A1	19980812	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995908899 COUNTRY OF REF DOCUMENT : EP
ZA9500966 A	19960807	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9500966 A	20150206	PEXP		Calculated Patent Term Expiry	

65) Family number: 23364526 (US2009286871A)

Title: USE OF A PLANT OIL PRODUCT AS AN AGENT FOR INCREASING THE SYNTHESIS OF SKIN LIPIDS

Abstract: Source: US2009286871A [EN] The present invention relates to the use of a plant oil product as an agent for increasing the synthesis of skin lipids, especially the lipids of the epidermal skin barrier, in or for the preparation of a cosmetic, pharmaceutical or dermatological composition. The invention also relates to a method for cosmetic treatment with a cosmetic, pharmaceutical or dermatological composition for increasing the synthesis of skin lipids, especially the lipids of the epidermal skin barrier, and to the use of the plant product as a food additive.

Classifications:
International (IPC 8-9): A01N43/08 A01N65/00 A01N65/24 A23K1/16 A23L1/16 A23L1/30 A23L33/105 A23L33/115 A61K31/34 A61K36/00 A61K36/26 A61K36/28 A61K36/48 A61K36/54 A61K36/57 A61K45/06 A61K8/37 A61K8/49 A61K8/63 A61K8/67 A61K8/68 A61K8/92 A61K8/97 A61P17/00 A61P17/04 A61P17/10 A61Q19/00 A61Q19/10 (Advanced/Invention); A23K A23L A61K A61Q (Subclass/Invention)
International (IPC 1-7): A23K1/16 A23L1/30 A61K35/78 A61K36/57 A61K7/48 A61K8/37 A61K8/49 A61K8/63 A61K8/67 A61K8/68 A61K8/92 A61P17/00 A61P17/04 A61P17/10 A61Q19/00
CPC: Y10S514/859 Y10S514/861 Y10S514/863 A61Q19/10 A61K8/375 A61K8/4973 A61K8/63 A61K8/678 A61K8/68 A61K8/922 A61K36/28 A61K36/48 A61K36/54 A61K45/06 A61K2800/75 A61Q19/00 A61Q19/004 A61Q19/005 A61Q19/007 A61Q19/008 A23K20/158 A23L33/11 A23L33/115
European: A23K1/16I A23L1/30B2 A23L1/30C A61K35/78 A61K35/78+M A61K36/28 A61K36/48 A61K36/54 A61K45/06 A61K8/37C A61K8/49H A61K8/63 A61K8/67L A61K8/68 A61K8/92C A61Q19/00 A61Q19/00K A61Q19/00M A61Q19/00S A61Q19/10 K61K800/75 K61Q19/00K K61Q19/00M K61Q19/00P
US: 424/727 424/764 514/461 514/559 514/859 514/861 514/863

Family:

Publication number	Publication date	Application number	Application date
AT334653 E	20060815	AT20000964325T	20000920
DE60029801 D1	20060914	DE20006029801	20000920
DE60029801 T2	20071018	DE20006029801T	20000920
DE60048477 D1	20140424	DE20006048477	20000920
EP1214051 A1	20020619	EP20000964325	20000920
EP1214051 B1	20060802	EP20000964325	20000920
EP1707189 A2	20061004	EP20060013216	20000920
EP1707189 A3	20070516	EP20060013216	20000920
EP1707189 B1	20140312	EP20060013216	20000920
EP1707189 B2	20170726	EP20060013216	20000920
ES2269180 T3	20070401	ES20000964325T	20000920
ES2460965 T3	20140516	ES20060013216T	20000920
ES2460965 T5	20171127	ES20060013216T	20000920
FR2798591 A1	20010323	FR19990011844	19990922
FR2798591 B1	20011026	FR19990011844	19990922
HK1095283 A1	20140627	HK20070102346	20070302
HK1095283 A3	20070504	HK20070102346	20070302
TWI238724 B	20050901	TW20000119543	20000922
US2009286871 AA	20091119	US20090460548	20090720
US8053003 BB	20111108	US20090460548	20090720
US8147883 BA	20120403	US20000088851	20000920
WO0121150 A1	20010329	WO2000FR02600	20000920

Priority:

EP20000964325 20000920 EP20060013216 20000920 US20020088851 20020321
US20090460548 20090720 FR19990011844 19990922 US20000088851 20000920
WO2000FR02600 20000920

Probable Assignee: LABORATORIES EXPANSCIENCE

Assignee(s): (std): EXPANSCIENCE LAB ; MSIKA PHILIPPE ; PICCIRILLI ANTOINE ; PHARMASCIENCE LAB

Assignee(s): LABORATOIRES EXPANSCIENCE ; LABORATOIRES PHARMASCIENCE ; LABORATORIES EXPANSCIENCE ; LABORATORIES PHARMASCIENCE

Inventor(s): (std): MSIKA PHILIPPE ; PICCIRILLI ANTOINE

Agent(s): SAMSON AND PARTNER PATENTANWAELTE MBB; REGIMBEAU; CURELL MIREIA; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PT SE US

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT334653 E	20060815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT334653 E	20070215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT334653 E	20200920	PEXP		Calculated Patent Term Expiry	
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DE60029801 T2	20071018	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60029801 T2	20200920	PEXP		Calculated Patent Term Expiry	
EP1214051 A1	20020619	LSPB	+	published / reissued	
EP1214051 A1	20020724	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020408
EP1214051 A1	20040303	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040114
EP1214051 A1	20040901	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : LABORATOIRES EXPANSCIENCE
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EP1214051 B1	20200920	PEXP		Calculated Patent Term Expiry	
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EP1707189 A2	20070425	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/97 20060101AFI20070322BHEP
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EP1707189 A3	20080102	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20071128
EP1707189 A3	20080123	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : SE
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EP1707189 B1	20140424	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60048477 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140424
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EP1707189 B1	20140730	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20140312
EP1707189 B1	20140815	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 655748 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140312
EP1707189 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1707189 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
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EP1707189 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1707189 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1707189 B1	20141212	LSOP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R026 REF DOCUMENT NUMBER : 60048477 COUNTRY OF REF DOCUMENT : DE
EP1707189 B1	20141231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140714
EP1707189 B1	20150121	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : BEIERSDORF AG

					EFFECTIVE DATE : 20141212
EP1707189 B1	20150121	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : HENKEL AG & CO. KGAA EFFECTIVE DATE : 20141212
EP1707189 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1707189 B1	20150226	LSOP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R026 REF DOCUMENT NUMBER : 60048477 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141212
EP1707189 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1707189 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140920
EP1707189 B1	20150430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1707189 B1	20150617	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1707189 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1707189 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1707189 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1707189 B1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140920
EP1707189 B1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140613
EP1707189 B1	20160912	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR

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EP1707189 B1	20200920	PEXP		Calculated Patent Term Expiry	
EP1707189 B2	20170726	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1707189 B2	20170726	LSRE	27A	MAINTAINED AS AMENDED	EFFECTIVE DATE : 20170726
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EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 33/115 20160101ALI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/37 20060101ALI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 33/105 20160101ALI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61Q 19/10 20060101ALI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/67 20060101ALI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 45/06 20060101ALI20170616BHEP
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EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/97 20170101AFI20170616BHEP
EP1707189 B2	20170726	LSRE	RIC2	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 36/48 20060101ALI20170616BHEP
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EP1707189 B2	20170907	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP1707189 B2	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170919 YEAR OF FEE PAYMENT : 18
EP1707189 B2	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170914 YEAR OF FEE PAYMENT : 18
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EP1707189 B2	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170911 YEAR OF FEE PAYMENT : 18
EP1707189 B2	20171127	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : DC2A REF DOCUMENT NUMBER : 2460965 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T5 DESIGNATED STATE(S) : EFFECTIVE DATE : 20171127
EP1707189 B2	20180228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20171016 YEAR OF FEE PAYMENT : 18
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ES2269180 T3	20070401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2269180 T3	20200920	PEXP		Calculated Patent Term Expiry	
ES2460965 T3	20140516	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2460965 T3	20200920	PEXP		Calculated Patent Term Expiry	
FR2798591 A1	20010323	LSPB	+	published / reissued	
FR2798591 A1	20030321	LSAS	CD	CHANGE OF NAME OR COMPANY NAME	
FR2798591 A1	20160912	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 18
FR2798591 A1	20170907	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 19
FR2798591 B1	20011026	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2798591 B1	20190922	PEXP		Calculated Patent Term Expiry	

HK1095283 A1	20140627	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1095283 A1	20270302	PEXP		Calculated Patent Term Expiry	
HK1095283 A3	20070504	LSPB	+	published / reissued	
TWI238724 B	20050901	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI238724 B	20200922	PEXP		Calculated Patent Term Expiry	
US2009286871 AA	20091119	LSPB	+	published / reissued	
US8053003 BB	20111108	LSGT	+	granted / extensions (spc, cpc, pte)	
US8053003 BB	20111019	LSGT	PAT1	Patented Case	
US8053003 BB	20111215	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LABORATORIES EXPANSCIENCE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MSIKA, PHILIPPE; PICCIRILLI, ANTOINE; REEL/FRAME:027423/0400 EFFECTIVE DATE : 20020313
US8053003 BB	20130101	LSRE	CC	CERTIFICATE OF CORRECTION	
US8053003 BB	20150416	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8053003 BB	20290720	PEXP		Calculated Patent Term Expiry	
US8147883 BA	20120403	LSGT	+	granted / extensions (spc, cpc, pte)	
US8147883 BA	20020321	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LABORATORIES PHARMASCIENCE, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MSIKA, PHILIPPE; PICCIRILLI, ANTONIE; REEL/FRAME:013120/0555 EFFECTIVE DATE : 20020313
US8147883 BA	20030108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LABORATOIRES EXPANSCIENCE, FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:LABORATOIRES PHARMASCIENCE; REEL/FRAME:013640/0338 EFFECTIVE DATE : 20020708
US8147883 BA	20120314	LSGT	PAT1	Patented Case	
US8147883 BA	20130723	LSRE	CC	CERTIFICATE OF CORRECTION	
US8147883 BA	20150916	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8147883 BA	20200920	PEXP		Calculated Patent Term Expiry	
WO0121150 A1	20010329	LSPB	+	published / reissued	
WO0121150 A1	20020321	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020027003724 COUNTRY OF REF DOCUMENT : KR
WO0121150 A1	20020321	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10088851 COUNTRY OF REF DOCUMENT : US
WO0121150 A1	20020325	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000964325 COUNTRY OF REF DOCUMENT : EP
WO0121150 A1	20020619	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000964325 COUNTRY OF REF DOCUMENT : EP

WO0121150 A1	20020621	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020027003724 COUNTRY OF REF DOCUMENT : KR
WO0121150 A1	20040623	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO0121150 A1	20060802	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000964325 COUNTRY OF REF DOCUMENT : EP

66) Family number: 28838302 (US2005026999A)

Title: COMPOSITION COMPRISING LACTIC ACID ESTERS OF MONO-AND DIGLYCERIDES OF FATTY ACIDS, AN EMULSIFIER CONTAINING THE SAME AND ITS USE

Abstract: Source: US2005026999A [EN] The invention relates to compositions comprising lactic acid esters of mono- and diglycerides of fatty acids i.e. LACTEM compositions. The invention relates especially to novel LACTEM, which include 5 to 95 percent by weight unsaturated fatty acid(s), as well as to emulsifiers containing LACTEM with unsaturated fatty acids. The use of unsaturated fatty acids in LACTEM improves firmness, volume and/or texture of food and non-food products produced with said LACTEM.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/16 A23C9/13 A23C9/137 A23C9/154 A23G3/00 A23G3/34 A23G3/40 A23G3/52 A23G9/04 A23G9/32 A23G9/46 A23G9/52 A23L1/00 A23L1/035 A23L1/19 (Advanced/Invention);
A21D13/00 A21D2/00 A23C9/13 A23C9/152 A23G3/00 A23G3/34 A23G9/04 A23G9/32 A23G9/44 A23G9/52 A23L1/00 A23L1/03 A23L1/19 (Core/Invention)
International (IPC 1-7): A23L1/00 A23L1/035 A61K31/225
CPC: A23L29/10 A23P30/40 A21D2/16 A23C9/1315 A23C9/137 A23C9/1544 A23G3/346 A23G3/40 A23G3/52 A23G9/04 A23G9/32 A23G9/327 A23G9/46 A23G9/52 A23G2200/08 A23L9/22 A21D13/38
European: A21D13/00D12 A21D13/08 A21D2/16 A23C9/137 A23C9/13D A23C9/154D A23G3/00 A23G3/00+D8 A23G3/00+H2 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23G3/52 A23G9/02 A23G9/02+D A23G9/02+D8 A23G9/02+H2 A23G9/02K A23G9/02K+D8 A23G9/04 A23G9/32 A23G9/32G A23G9/46 A23G9/52 A23L1/00P16 A23L1/035 A23L1/19B K23G200/08
US: 514/547

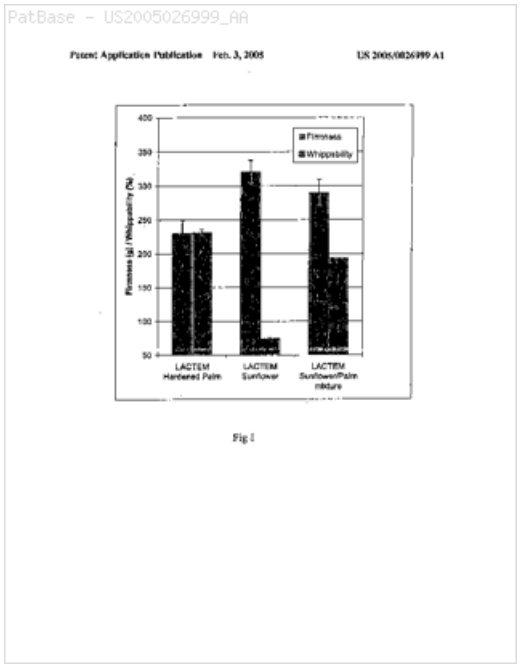


Fig 1

Family:

Publication number	Publication date	Application number	Application date
GB200312147 A0	20030702	GB20030012147	20030527
US2005026999 AA	20050203	US20040854978	20040527
WO04105508 A1	20041209	WO2004EP05711	20040527

Priority:
GB20030012147 20030527 US20030473412P 20030527 US20040854978 20040527

Probable Assignee: DANISCO A S

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Assignee(s): DANISCO A S

Inventor(s): (std): FAERGEMAND MERETE ; FRIIS LINDA YVONNE ; SOENDBERG SVENDSEN LISBETH ; VANG SPARSOE FLEMMING ; VANG SPARSO FLEMMING ; SVENDSEN LISBETH SONDBERG

Inventor(s): SVENDSEN LISBETH ; FRIIS LINDA

Agent(s): SCULLY SCOTT MURPHY AND PRESSER PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB200312147 A0	20050126	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
US2005026999 AA	20050203	LSPB	+	published / reissued	
US2005026999 AA	20040922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO A/S, DENMARK OLDPARTY : ASSIGNMENT OF ASSIGNORS

					INTEREST; ASSIGNORS:FAERGEMAND, MERETE; SPARSO, FLEMMING VANG; SVENDSEN, LISBETH SONDBERG; AND OTHERS; REEL/FRAME:015166/0334; SIGNING DATES FROM 20040831 TO 20040909
US2005026999 AA	20080811	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO04105508 A1	20041209	LSPB	+	published / reissued	
WO04105508 A1	20060628	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

67) Family number: 29750654 (US2003215556A)

Title: REDUCED CALORIE FAT COMPOSITIONS

Abstract: Source: US2003215556A [EN] Reduced calorie fat compositions which contain combinations of substantially non-absorbable, substantially nondigestible polyol polyesters and certain reduced calorie triglycerides that function as anti-anal leakage agents and provide textural/taste benefits are disclosed. These reduced calorie fat compositions are useful in a variety of food applications, including frying oils for salted snacks, chocolate-flavored candy bars and cooking/salad oils.

Classifications:
International (IPC 8-9): A23D7/01 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23G1/30 A23G1/36 A23G3/00 A23G3/40 A23G9/32 A23L1/164 A23L1/217 A23L1/30 A23L1/308 A61K31/22 A61P17/00 C11C3/00 C11C3/10 (Advanced/Invention); A23D7/015 A23D9/00 A23D9/007 A23G1/30 A23L1/30 A61P17/00 C11C3/00 (Advanced/Non-invention); A23G3/34 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23D9/013 A23G1/00 A23L1/217 A23L1/30 A23L1/308 A23L12/17 A23L13/08 A61K31/22 A61P17/00 C11C3/00 C11C3/10
CPC: Y10S426/804 A23G1/36 A23D7/013 A23D9/013 A23G3/40 A23G9/327 A23L7/13 A23L19/18 A23L33/26
European: A23D7/01S A23D9/013 A23G1/00 A23G1/00+D8 A23G1/36 A23G3/00 A23G3/00+D8 A23G3/40 A23G9/02 A23G9/02+D8 A23G9/32G A23L1/164E A23L1/217 A23L1/308P
US: 426/601 426/601P 426/611 426/612 426/804

Family:

Publication number	Publication date	Application number	Application date
AU200124379 A1	20010625	AU20010024379	20001218
AU200124379 A5	20010625	AU20010024379	20001218
CA2392700 AA	20020527	CA20002392700	20001218
CN1411341 A	20030416	CN20008017302	20001218
EP1237420 A2	20020911	EP20000988137	20001218
JP2003517051 T2	20030520	JP20010544506T	20001218
MXPA02005910 A1	20021023	MX2002PA05910	20001218
US2003215556 AA	20031120	US20020149875	20021011
US7241468 BB	20070710	US20000149875	20001218
WO0143558 A2	20010621	WO2000US34387	20001218
WO0143558 A3	20020117	WO2000US34387	20001218

Priority:

US19990172507P 19991217 US20000149875 20001218 US20020149875 20021011 WO2000US34387 20001218

Probable Assignee: PROCTER AND GAMBLE CO

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Inventor(s): (std): ADAMS STACEY LYNNE ; MCRORIE JOHNSON WATSON JR ; MCRORIE JR JOHNSON WATSON ; NABER R B ; NABER RUSSELL B ; NABER RUSSELL BRUCE ; RORIE J W MC ; SCHAFERMEYER RICHARD GERARD ; KESTER J J ; KESTER JEFFREY JOHN

Inventor(s): MCRORIE ; STACEY LYNNE ADAMS ; RUSSELL B NABER ; RICHARD GERARD SCHAFERMEYER ; JOHNSON WATSON MCRORIE JR ; JEFFREY JOHN KESTER ; R B NABER ; RB NABER ; J J KESTER ; J W MC RORIE ; JJ KESTER ; JR ; JR JOHNSON WATSON ; JW MC RORIE

Agent(s): DIMOCK STRATTON LLP; CARL J; S ROBERT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200124379 A1	20010625	LSPB	+	published / reissued	
CA2392700 AA	20020527	LSPB	+	published / reissued	
CA2392700 AA	20020527	LSES	+EEER	EXAMINATION REQUEST	
CA2392700 AA	20041220	LSLE	-FZDE	DEAD	
CN1411341 A	20030416	LSPB	+	published / reissued	
CN1411341 A	20030416	LSPB	+C06	PUBLICATION	
CN1411341 A	20050323	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW	

				2001)	
EP1237420 A2	20020911	LSPB	+	published / reissued	
EP1237420 A2	20020911	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020621
EP1237420 A2	20031008	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030826
EP1237420 A2	20040714	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20040106
JP2003517051 T2	20030520	LSPB	+	published / reissued	
MXPA02005910 A1	20021023	LSPB	+	published / reissued	
US2003215556 AA	20031120	LSPB	+	published / reissued	
US2003215556 AA	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PROCTER & GAMBLE COMPANY, THE, OHIO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:NABER, RUSSELL BRUCE; KESTER, JEFFREY JOHN; MCRORIE, JR., JOHSON WATSON; AND OTHERS; REEL/FRAME:014641/0483; SIGNING DATES FROM 20010809 TO 20030513
US7241468 BB	20070710	LSGT	+	granted / extensions (spc, cpc, pte)	
US7241468 BB	20070620	LSGT	PAT1	Patented Case	
US7241468 BB	20080527	LSRE	CC	CERTIFICATE OF CORRECTION	
US7241468 BB	20101228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7241468 BB	20141229	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7241468 BB	20220607	PEXP		Calculated Patent Term Expiry (PTA 536 days)	
WO0143558 A2	20010621	LSPB	+	published / reissued	
WO0143558 A3	20020527	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2392700 COUNTRY OF REF DOCUMENT : CA
WO0143558 A3	20020613	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2001 544506 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0143558 A3	20020614	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2002/005910 COUNTRY OF REF DOCUMENT : MX
WO0143558 A3	20020617	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 008173028 COUNTRY OF REF DOCUMENT : CN
WO0143558 A3	20020621	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000988137 COUNTRY OF REF DOCUMENT : EP
WO0143558 A3	20020911	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000988137 COUNTRY OF REF DOCUMENT : EP
WO0143558 A3	20021011	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL	REF DOCUMENT NUMBER : 10149875 COUNTRY OF REF DOCUMENT : US

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WO0143558 A3	20021128	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0143558 A3	20040106	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000988137 COUNTRY OF REF DOCUMENT : EP

68) Family number: 29843794 (GB1020711A)

Title: EMULSIFYING AGENTS

Abstract: Source: GB1020711A [EN] The invention comprises glycerides containing one or more ester groups derived from aliphatic carboxylic acid groups containing 2 to 30 carbon atoms, containing only carbon, hydrogen and oxygen and having 1 to 3 keto groups, the remainder of the molecule being composed of saturated or olefinically unsaturated aliphatic hydrocarbon groups, said hydrocarbon groups comprising at least two lipophilic groups, each containing at least 8 carbon atoms, and at least one hydrocarbon group containing a cyclic structure with a directly-attached keto group obtainable by Dies-Alder condensation, the ratio of the total number of carbon atoms to the number of keto groups per molecule being 20: 1 to 80: 1, their preparation by (a) Dies-Alder condensation or (b) esterification, and a process for preparing transesterification products of the above by reaction with a saturated or olefinically unsaturated monohydric aliphatic alcohol having 3 to 30 carbon atoms.ALSO:Fibres, for example wool, one degreased by emulsions containing as emulsifying agent (a) a glyceride containing one or more ester groups derived from aliphatic carboxylic acids having 2 to 30 carbon atoms, said glyceride containing only carbon, hydrogen and oxygen and having 1 to 3 keto groups, the remainder of the molecule being composed of saturated or olefinically unsaturated aliphatic hydrocarbon groups, said hydrocarbon groups comprising at least two lipophilic groups, each containing at least 8 carbon atoms, and at least one hydrocarbon group containing a cyclic structure with a directly-attached keto group obtainable by Diels-Alder condensation, the ratio between the total number of carbon atoms and the number of keto groups per molecule being 20:1 to 80:1, or (b) an ester obtained by trans-esterifying the above glyceride with a saturated or olefinically unsaturated monohydric aliphatic alcohol having 3 to 30 carbon atoms.ALSO:A process for making emulsions e.g. aqueous oil or fat emulsions which may contain starch or protein, water-in-hydrocarbon or hydrocarbon-in-water emulsions and aqueous paraffin wax emulsions is characterized by the use as an emulsifying agent of (a) a glyceride containing one or more ester groups derived from aliphatic carboxylic acids having 2-30 carbon atoms, said glyceride containing only carbon, hydrogen and oxygen and having 1-3 keto groups, the remainder of the molecule being composed of saturated or olefinically unsaturated aliphatic hydrocarbon groups, said hydrocarbon groups comprising at least two lipophilic groups, each containing at least 8 carbon atoms, and at least one hydrocarbon group containing a cyclic structure with a directly-attached keto group obtainable by Diels-Alder condensation, the ratio between the total number of carbon atoms and the number of keto groups per molecule being 20: 1-80: 1, or (b) transesterification products of the above obtained by reaction with a saturated or olefinically unsaturated aliphatic monohydric alcohol having 3-30 carbon atoms.

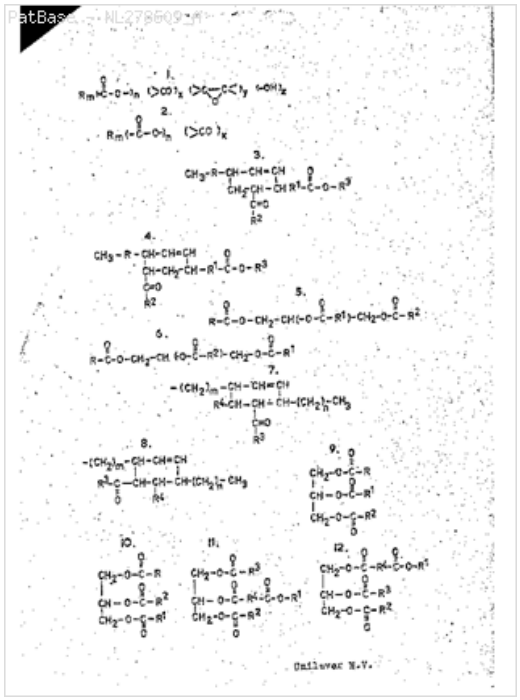
Classifications:

International (IPC 8-9): A01N25/30 A21D13/00 A21D2/16 A23D7/005 A23D7/01 A61K47/14 A61K8/37 A61K8/92 A61K9/00 A61Q19/00 B01F17/00 B03D1/008 C08F2/30 C09B67/46 C09F7/00 C11C3/00 C11C3/04 C11C3/10 (Advanced/Invention);
A01N25/30 A21D13/00 A21D2/00 A23D7/005 A61K47/14 A61K8/30 A61K8/92 A61K9/00 A61Q19/00 B01F17/00 B03D1/004 C08F2/12 C09B67/00 C09F7/00 C11C3/00 (Core/Invention)

International (IPC 1-7): B01F3/12 C07C69/00 C07D1/00 C09D5/02

CPC: A01N25/30 A21D2/165 A23D7/0053 A23D7/011 A61K8/375 A61K8/922 A61K9/0014 A61K47/14 A61Q19/00 B01F17/0021 B03D1/008 C08F2/30 C09B67/0089 C09F7/00 C11C3/00 C11C3/04 C11C3/10

European: 124CB7F1D 124CB7M A01N25/30 A21D13/00B A21D2/16D A23D7/005N A23D7/01N A61K47/14 A61K7/15 A61K7/48C4K A61K7/48C4K4 A61K8/37C A61K8/92C A61K9/00M3 A61Q19/00 B01F17/00E B03D1/008 C08F2/30 C09B67/00P10B C09B67/00P10B6 C09F7/00 C11C3/00 C11C3/04 C11C3/10



Family:

Publication number	Publication date	Application number	Application date
AT259527 B	19680125	AT19620004098	19620518
CH447149 A	19671130	CH19640001837	19620518
FI40905 B	19690331	FI19620001005	19620518
FR1355524 A	19640320	FR19620898090	19620518
GB1020711 A	19660223	GB19610018337	19610519
NL278609 A	00000000		00000000
SE300431 B	19680429	SE19620005601	19620518

Priority:

GB19610018337 19610519

Probable Assignee: UNILEVER LTD

Assignee(s): (std): UNILEVER LTD ; UNILEVER NV

Assignee(s): UNILEVER LIMITED ; UNILEVER N V

Inventor(s): (std): PEZOLD HEINRICH VON ; VON PEZOLD H ; WIESKE T ; WIESKE THEOPHIL ; VON PEZOLD HEINRICH DR ; THEOPHIL WIESKE ; PEZOLD HEINRICH VON DR

Inventor(s): DR HEINRICH VON PEZOLD ; PEZOLD HEINRICH DR VON

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT259527 B	19680125	LSGT	+	granted / extensions (spc, cpc, pte)	
AT259527 B	19820518	PEXP		Calculated Patent Term Expiry	
CH447149 A	19671130	LSGT	+	granted / extensions (spc, cpc, pte)	
CH447149 A	19820518	PEXP		Calculated Patent Term Expiry	
FI40905 B	19690331	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1355524 A	19640320	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1355524 A	19820518	PEXP		Calculated Patent Term Expiry	
GB1020711 A	19660223	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1020711 A	19810519	PEXP		Calculated Patent Term Expiry	
NL278609 A	00000000	LSPB	+	published / reissued	
SE300431 B	19680429	LSPB	+	published / reissued	

69) Family number: 30163222 (US2004116738A)

Title: CONJUGATED UNSATURATED GLYCERIDE MIXTURES AND A METHOD FOR PRODUCING THE SAME

Abstract: Source: US2004116738A [EN] The invention relates to a process for conjugating two double bonds separated by a methylene bridge in a long-chain alkene, in which the long-chain alkene is isomerized with an a) imino base, or b) iminophosphorane base, as catalyst.

Classifications:
International (IPC 8-9): A23D9/007 A23D9/013 A23K1/00 A23K1/16 A23K20/158 A23L1/29 A23L1/30 A23L33/12 A61K31/201 A61K31/202 A61K31/231 A61K8/31 A61K8/37 A61K8/92 A61P3/04 A61P3/10 A61P35/00 A61P37/08 A61P9/00 A61Q19/00 C07B37/08 C07B61/00 C07C51/353 C07C67/333 C07C69/587 C11C3/14 (Advanced/Invention);
A23D9/007 A23K1/16 A23L1/30 A61K31/185 A61K31/21 A61K8/30 A61K8/92 A61P3/00 A61P35/00 A61P37/00 A61P9/00 A61Q19/00 C07B37/00 C07B61/00 C07C51/347 C07C67/00 C07C69/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23K1/00 A23K1/16 A23L1/29 A23L1/30 A61K31/201 A61K31/202 A61K31/231 A61K7/48 A61P3/04 A61P3/10 A61P35/00 A61P37/08 A61P9/00 C07B61/00 C07C51/16 C07C57/00 C07C67/333 C07C69/587 C11C3/14
CPC: A23K20/158 C11C3/14 A23D9/007 A23D9/013 A23V2002/00 A61K8/31 A61K8/375 A61K8/922 A61Q19/00 C07B37/08 C07C51/353 C07C67/333 A23L33/12
European: A23D9/007 A23D9/013 A23K1/16I A23L1/30C2 A61K8/31 A61K8/37C A61K8/92C A61Q19/00 C07B37/08 C07C51/353 C07C67/333 C11C3/14 K23V2/00
US: 426/601 514/560 554/126 554/221 554/224 554/227 562/547 562/547P

Family:

Publication number	Publication date	Application number	Application date
AU2002257714 AA	20021015	AU20020257714	20020326
AU2002257714 BB	20070628	AU20020257714	20020326
CA2442106 AA	20030923	CA20022442106	20020326
EP1373182 A1	20040102	EP20020727477	20020326
JP2004535374 T2	20041125	JP20020577768T	20020326
JP4220247 B2	20090204	JP20020577768T	20020326
US2004116738 AA	20040617	US20030473217	20030929
US6881854 BB	20050419	US20030473217	20030929
WO02079139 A1	20021010	WO2002EP03354	20020326

Priority:
DE20011015701 20010329 WO2002EP03354 20020326

Probable Assignee: BASF SE

Assignee(s): (std): BALDENIUS KAI UWE ; BASF AG ; KELLER ANDREAS ; PTOCK ARNE

Assignee(s): BASF AKTIENGESELLSCHAFT ; BASF SE

Inventor(s): (std): KELLER ANDREAS ; PTOCK ARNE ; BALDENIUS KAI UWE

Inventor(s): ARNE PTOCK ; ANDREAS KELLER ; KAI UWE BALDENIUS

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; ROBIC; FUJITA TAKASHI; ISHII SADAJI; HIRAKI YUSUKE; NOVAK DRUCE AND QUIGG LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2002257714 AA	20021015	LSPB	+	published / reissued	
AU2002257714 BB	20070628	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2002257714 BB	20071025	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2002257714 BB	20111020	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2002257714 BB	20220326	PEXP		Calculated Patent Term Expiry	
CA2442106 AA	20030923	LSPB	+	published / reissued	
CA2442106 AA	20070126	LSES	+EEER	EXAMINATION REQUEST	
CA2442106 AA	20110603	LSLE	-FZDE	DEAD	
EP1373182 A1	20040102	LSPB	+	published / reissued	
EP1373182 A1	20040102	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20031029
EP1373182 A1	20080305	LSAS	RAP1	TRANSFER OF RIGHTS OF AN	PARTYTYPE : OWNER OWNER : BASF SE

				APPLICATION	
EP1373182 A1	20081217	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20081118
EP1373182 A1	20120425	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20111001
JP2004535374 T2	20041125	LSPB	+	published / reissued	
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JP2004535374 T2	20080611	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080610
JP2004535374 T2	20080906	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080905
JP2004535374 T2	20081008	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2004535374 T2	20081015	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20081014
JP2004535374 T2	20081016	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2004535374 T2	20081120	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20081113
JP2004535374 T2	20081121	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2004535374 T2	20081121	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP4220247 B2	20090204	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4220247 B2	20111121	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP4220247 B2	20220326	PEXP		Calculated Patent Term Expiry	
US2004116738 AA	20040617	LSPB	+	published / reissued	
US2004116738 AA	20030929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BASF AKTIENGESELLSCHAFT, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PTOCK, ARNE; BALDENIUS, KAI-UWE; KELLER, ANDREAS; REEL/FRAME:014654/0829 EFFECTIVE DATE : 20020416
US2004116738 AA	20130520	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6881854 BB	20050419	LSGT	+	granted / extensions (spc, cpc, pte)	
US6881854 BB	20080924	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6881854 BB	20130419	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6881854 BB	20130611	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20130419
US6881854 BB	20230929	PEXP		Calculated Patent	

				Term Expiry	
WO02079139 A1	20021010	LSPB	+	published / reissued	
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WO02079139 A1	20030923	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2442106 COUNTRY OF REF DOCUMENT : CA
WO02079139 A1	20030925	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002577768 COUNTRY OF REF DOCUMENT : JP
WO02079139 A1	20030929	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002257714 COUNTRY OF REF DOCUMENT : AU
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WO02079139 A1	20040102	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002727477 COUNTRY OF REF DOCUMENT : EP
WO02079139 A1	20040115	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02079139 A1	20071011	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002257714 COUNTRY OF REF DOCUMENT : AU

70) Family number: 30300545 (US2004047971A)

Title: PROCESS FOR THE PREPARATION OF A FAT COMPOSITION CONTAINING STEROL ESTERS A PRODUCT OBTAINED BY SAID PROCESS AND THE USE THEREOF

Abstract: Source: US2004047971A [EN] The invention refers to a process for the preparation of a fat composition containing fatty acid sterol esters, free sterols and glycerides, which process can be characterized as a one pot direct interesterification of sterols with tri-glycerides. The invention also refers to the fat composition obtained by said process, and to the use thereof in a food, cosmetic or pharmaceutical product.

Classifications:
International (IPC 8-9): A23C9/13 A23D7/01 A23D7/015 A23D9/013 A23L1/19 A23L1/30 A61K31/047 A61K31/22 A61K31/575 A61K36/28 A61K36/31 A61K36/48 A61K36/55 A61K36/889 A61K36/899 A61K47/00 A61K8/63 A61K8/92 A61Q17/00 A61Q19/00 C07J9/00 C11C3/10 (Advanced/Invention);
A23C9/13 A23D7/005 A23D7/015 A23D9/007 A23L1/19 A23L1/30 A61K31/045 A61K31/21 A61K31/575 A61K36/185 A61K36/88 A61K47/00 A61K8/30 A61K8/92 A61Q17/00 A61Q19/00 C07J9/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D7/015 A23D9/013 A23L1/30 C07J9/00 C11C3/10
CPC: Y02P20/582 C11C3/10 A23C9/13 A23C9/1315 A23D7/013 A23D7/015 A23D9/013 A61K8/63 A61K8/922 A61K8/925 A61K31/047 A61K31/22 A61K31/575 A61Q17/00 A61Q19/00 C07J9/00 A23L9/22 A23L33/11
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US: 424/439 424/439P 424/727 424/727S 424/750 424/750S 424/755 424/755S 424/757 424/757S 424/764 424/764S 424/768 424/768S 424/776 424/776S 426/601 426/601P 552/540 552/540S

Family:

Publication number	Publication date	Application number	Application date
AU2002219748 AA	20020724	AU20020219748	20020110
EP1349909 A1	20031008	EP20020729609	20020110
NO20033159 A	20030710	NO20030003159	20030710
NO20033159 A0	20030710	NO20030003159	20030710
SE200100080 A	20020712	SE20010000080D	20010111
SE200100080 A0	20010111	SE20010000080	20010111
SE200100080 L	20020712	SE20010000080	20010111
SE523094 C2	20040330	SE20010000080	20010111
US2004047971 AA	20040311	US20030451784	20030711
US2006233862 AA	20061019	US20060356249	20060217
WO02055639 A1	20020718	WO2002SE00033	20020110

Priority:

SE20010000080 20010111 US20030451784 20030711 US20060356249 20060217 WO2002SE00033 20020110

Probable Assignee: KARLSHAMNS AB

Assignee(s): (std): ALANDER JARI ; KARLSHAMNS AB

Inventor(s): (std): ALANDER JARI ; JARI ALANDER

Agent(s): C IRVIN MCCLELLAND OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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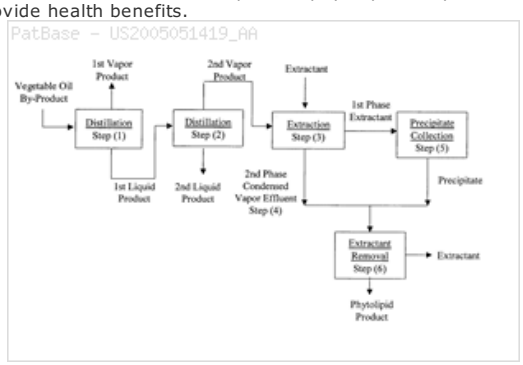
Patent	Date recorded	Event group	Code	Event	Details
AU2002219748 AA	20020724	LSPB	+	published / reissued	
EP1349909 A1	20031008	LSPB	+	published / reissued	
EP1349909 A1	20031008	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030627
EP1349909 A1	20061220	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20061123
EP1349909 A1	20071219	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20070605
NO20033159 A	20030710	LSPB	+	published / reissued	
NO20033159 A	20121105	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	
SE200100080 A	20020712	LSPB	+	published / reissued	
SE523094 C2	20040330	LSGT	+	granted / extensions (spc, cpc, pte)	
SE523094 C2	20210111	PEXP		Calculated Patent Term Expiry	

US2004047971 AA	20040311	LSPB	+	published / reissued	
US2004047971 AA	20040114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KARLSHAMNS AB, SWEDEN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ALANDER, JARI; REEL/FRAME:014884/0885 EFFECTIVE DATE : 20030624
US2004047971 AA	20060307	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2006233862 AA	20061019	LSPB	+	published / reissued	
US2006233862 AA	20090312	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO02055639 A1	20020718	LSPB	+	published / reissued	
WO02055639 A1	20030627	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002729609 COUNTRY OF REF DOCUMENT : EP
WO02055639 A1	20030711	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10451784 COUNTRY OF REF DOCUMENT : US
WO02055639 A1	20031008	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002729609 COUNTRY OF REF DOCUMENT : EP
WO02055639 A1	20031120	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02055639 A1	20060327	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO02055639 A1	20060327	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP
WO02055639 A1	20070605	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002729609 COUNTRY OF REF DOCUMENT : EP

71) Family number: 31730937 (US2005051419A)

Title: PROCESS FOR THE RECOVERY OF A PHYTOLIPID COMPOSITION

Abstract: Source: US2005051419A [EN] Disclosed is a process for the recovery of a phytolipid composition from a vegetable oil by-product. The phytolipid composition produced comprises squalene, phytosterols, mixed tocopherols and tocotrieneols, and vegetable wax and is useful as an emollient. The phytochemical composition may be applied directly to the skin to provide emolliency. Alternatively, the phytolipid composition may be formulated in various aqueous or anhydrous cosmetic compositions such as creams, lotions, gels, ointments, lip balms, sticks, or pencils for treatment of the skin and lips. The phytolipid composition also may be incorporated into foods, beverages, and nutraceuticals to provide health benefits.



Classifications:
International (IPC 8-9): A01N43/16 A01N65/00 A21D2/10 A21D2/14 A23C9/00 A23D7/00 A23D7/005 A23D7/01 A23D7/015 A23D9/00 A23D9/013 A23L1/22 A23L1/225 A23L1/24 A23L1/30 A23L2/00 A23L2/38 A23L2/52 A61K31/00 A61K31/56 A61K36/00 A61K47/44 A61K8/18 A61K8/31 A61K8/63 A61K8/67 A61K8/92 A61K8/97 A61Q1/04 A61Q19/00 A61Q5/00 B01D1/26 B01D11/04 B01D3/10 B01D3/14 C07C11/21 C07C7/04 C07D311/72 C07J9/00 C11B11/00 C11B13/00 C11B3/12 C12G3/00 (Advanced/Invention);
A23D9/013 B01D1/06 B01D1/22 B01D3/12 C07J9/00 C11B11/00 C11B13/00 (Advanced/Non-invention);
A01N43/02 A01N65/00 A21D2/00 A23C9/00 A23D7/00 A23D7/005 A23D7/015 A23D9/00 A23D9/007 A23L1/22 A23L1/221 A23L1/24 A23L1/30 A23L2/00 A23L2/38 A23L2/52 A61K31/00 A61K31/56 A61K36/00 A61K47/44 A61K8/18 A61K8/30 A61K8/92 A61K8/96 A61Q1/02 A61Q19/00 A61Q5/00 B01D1/26 B01D11/04 B01D3/10 B01D3/14 C07C11/00 C07C7/00 C07D311/00 C07J9/00 C11B11/00 C11B13/00 C11B3/00 C12G3/00 (Core/Invention);
B01D1/00 B01D1/22 B01D3/12 (Core/Non-invention)
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US: 203/43 203/43P 203/73 203/73S 203/8 203/80 203/80S 424/439 424/63 424/64 424/725 424/725P 424/750 424/750P 426/494 426/590 426/590S 426/592 426/592S 426/601 426/601P 426/611 426/612 426/612S 514/458

Family:

Publication number	Publication date	Application number	Application date
AT402186 E	20080815	AT20040782877T	20040901
AU2004272561 AA	20050324	AU20040272561	20040901
BRPI0413173 A	20061003	BR2004PI13173	20040901
CA2534961 AA	20060206	CA20042534961	20040901
CA2534961 C	20090616	CA20042534961	20040901
CN100410269 C	20080813	CN200480025752	20040901
CN1849331 A	20061018	CN200480025752	20040901
DE602004015308 D1	20080904	DE200460015308T	20040901
DK1664078 T3	20081006	DK20040782877T	20040901
EP1664078 A1	20060607	EP20040782877	20040901
EP1664078 B1	20080723	EP20040782877	20040901
ES2305858 T3	20081101	ES20040782877T	20040901
JP2007505117 T2	20070308	JP20060526170T	20040901
KR20060134913 A	20061228	KR20067004936	20040901
MXPA06002627 A1	20060606	MX2006PA02627	20040901
US2005051419 AA	20050310	US20030659620	20030910
US2005053712 AA	20050310	US20040844074	20040512
US2008138450 AA	20080612	US20080035905	20080222
US2009092686 AA	20090409	US20080333726	20081212
US7416756 BB	20080826	US20030659620	20030910
US7491412 BB	20090217	US20040844074	20040512
WO05026189 A1	20050324	WO2004US28465	20040901

Priority:

US20030659620 20030910 US20040844074 20040512 US20080035905 20080222
US20080333726 20081212 WO2004US28465 20040901

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Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT402186 E	20080815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT402186 E	20090115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT402186 E	20240901	PEXP		Calculated Patent Term Expiry	
AU2004272561 AA	20050324	LSPB	+	published / reissued	
AU2004272561 AA	20110324	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI0413173 A	20061003	LSPB	+	published / reissued	
BRPI0413173 A	20111025	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 7A ANUIDADE(S)
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CA2534961 AA	20060206	LSPB	+	published / reissued	
CA2534961 AA	20060206	LSES	+EEER	EXAMINATION REQUEST	
CA2534961 C	20090616	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2534961 C	20110901	LSLE	-MKLA	LAPSED	
CA2534961 C	20240901	PEXP		Calculated Patent Term Expiry	
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CN100410269 C	20080813	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100410269 C	20111123	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN100410269 C	20240901	PEXP		Calculated Patent Term Expiry	
CN1849331 A	20061018	LSPB	+	published / reissued	
CN1849331 A	20061018	LSPB	+C06	PUBLICATION	
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DK1664078 T3	20081006	LSGT	+	granted / extensions (spc, cpc, pte)	

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EP1664078 A1	20061004	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20060906
EP1664078 A1	20070314	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20060906
EP1664078 B1	20080723	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1664078 B1	20080731	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1664078 B1	20080903	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1664078 B1	20081101	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2305858 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
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EP1664078 B1	20240901	PEXP		Calculated Patent Term Expiry	

ES2305858 T3	20081101	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2305858 T3	20240901	PEXP		Calculated Patent Term Expiry	
JP2007505117 T2	20070308	LSPB	+	published / reissued	
JP2007505117 T2	20070831	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070830
JP2007505117 T2	20100331	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100330
JP2007505117 T2	20100908	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20100907
KR20060134913 A	20061228	LSPB	+	published / reissued	
KR20060134913 A	20090901	LSES	A201	REQUEST FOR EXAMINATION	
KR20060134913 A	20110627	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20060134913 A	20111024	LSRV	-E601	DECISION TO REFUSE APPLICATION	
MXPA06002627 A1	20060606	LSPB	+	published / reissued	
MXPA06002627 A1	20080601	LSGT	+FG	GRANT OR REGISTRATION	
US2005051419 AA	20050310	LSPB	+	published / reissued	
US2005051419 AA	20031224	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EASTMAN CHEMICAL COMPANY, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ZIMA, GEORGE CHESTER; OLDFIELD, TERRY ANN; DOBBS, SUZANNE WINEGAR; AND OTHERS; REEL/FRAME:014831/0876; SIGNING DATES FROM 20030908 TO 20030909
US2005053712 AA	20050310	LSPB	+	published / reissued	
US2005053712 AA	20040802	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EASTMAN CHEMICAL COMPANY, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ZIMA, GEORGE CHESTER; OLDFIELD, TERRY ANN; DOBBS, SUZANNE WINEGAR; AND OTHERS; REEL/FRAME:015630/0780; SIGNING DATES FROM 20040430 TO 20040510
US2008138450 AA	20080612	LSPB	+	published / reissued	
US2008138450 AA	20100611	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2009092686 AA	20090409	LSPB	+	published / reissued	
US2009092686 AA	20101014	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7416756 BB	20080826	LSGT	+	granted / extensions (spc, cpc, pte)	
US7416756 BB	20120826	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	

US7416756 BB	20120924	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7416756 BB	20121016	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120826
US7416756 BB	20240929	PEXP		Calculated Patent Term Expiry (PTA 385 days)	
US7491412 BB	20090217	LSGT	+	granted / extensions (spc, cpc, pte)	
US7491412 BB	20130217	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7491412 BB	20130320	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7491412 BB	20130409	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20130217
US7491412 BB	20260621	PEXP		Calculated Patent Term Expiry (PTA 770 days)	
WO05026189 A1	20050324	LSPB	+	published / reissued	
WO05026189 A1	20060120	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004782877 COUNTRY OF REF DOCUMENT : EP
WO05026189 A1	20060206	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2534961 COUNTRY OF REF DOCUMENT : CA
WO05026189 A1	20060308	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2006/002627 COUNTRY OF REF DOCUMENT : MX
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WO05026189 A1	20060310	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006526170 COUNTRY OF REF DOCUMENT : JP
WO05026189 A1	20060310	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020067004936 COUNTRY OF REF DOCUMENT : KR
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WO05026189 A1	20060406	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004272561 COUNTRY OF REF DOCUMENT : AU
WO05026189 A1	20060607	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004782877 COUNTRY OF REF DOCUMENT : EP
WO05026189 A1	20061003	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0413173 COUNTRY OF REF DOCUMENT : BR
WO05026189 A1	20061228	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020067004936 COUNTRY OF REF DOCUMENT : KR

72) Family number: 32839012 (US2008311257A)

Title: USE OF COCOA BUTTER IN CULINARY PREPARATIONS

Abstract: Source: US2008311257A [EN] The present invention relates to the use of cocoa butter as a replacement for dairy butter and oils in culinary preparations, in particular in the following applications: cooking, seasoning, preparation of emulsions and of doughs (tart dough, fritter dough and the like), preservation of foods, etc.

Classifications:

International (IPC 8-9): A21D15/08 A21D2/00 A21D2/16 A21D2/36 A23B4/10 A23D7/02 A23D9/00 A23D9/007 A23D9/06 A23G1/30 A23G3/00 A23L1/01 A23L1/19 A23L1/217 A23L1/22 A23L1/221 A23L1/226 A23L1/24 A23L1/36 A23L1/39 A23L1/40 A23L19/18 A23L23/00 A23L23/10 A23L25/00 A23L27/10 A23L27/20 A23L27/60 A23L3/3517 A23L5/10
A23L9/20 (Advanced/Invention);
A23G1/36 (Advanced/Non-invention);
A21D15/00 A21D2/00 A23B4/00 A23D7/02 A23D9/00 A23D9/007 A23D9/06 A23G1/30 A23G3/00 A23L1/01 A23L1/214 A23L1/22 A23L1/221 A23L1/24 A23L1/36 A23L1/39 (Core/Invention);
A23G1/30 (Core/Non-invention);
A23D A23L (Subclass/Invention)

CPC: A23L5/10 A23L5/11 A23L5/12 A23L13/00 A23L19/03 A23L19/05 A23L19/09 A23L19/18 A23L23/00 A23L23/10 A23L27/60 A23L27/70 A23P30/40 A21D2/165 A21D2/16 A23B4/10 A23B7/16 A23B9/14 A23D9/00 A23G3/346 A23G3/40 A23G2200/08 A23V2002/00

European: A21D2/16 A21D2/16D A23B4/10 A23B7/16 A23B9/14 A23D9/00 A23G3/00K A23G3/00K+D8 A23G3/34E A23G3/40 A23L1/00P16 A23L1/01 A23L1/01B A23L1/01B2 A23L1/212C A23L1/212C2 A23L1/212E A23L1/217 A23L1/22B A23L1/24 A23L1/31 A23L1/39 A23L1/40 K23G200/08 K23V2/00

US: 426/310 426/310P 426/439 426/439S 426/557 426/557S 426/590 426/590S 426/601 426/601S 426/654 426/654S

Family:

Publication number	Publication date	Application number	Application date
CN101090634 A	20071219	CN200580034621	20051011
CN101933578 A	20110105	CN201010255985	20051011
CN101933578 B	20140212	CN201010255985	20051011
DE602005044424 D1	20140918	DE200560044424T	20051011
EP1799039 A2	20070627	EP20050799529	20051011
EP1799039 B1	20140806	EP20050799529	20051011
ES2523019 T3	20141120	ES20050799529T	20051011
FR2876248 A1	20060414	FR20040010716	20041011
FR2876248 B1	20080229	FR20040010716	20041011
FR2876249 A1	20060414	FR20050001508	20050215
HK1108326 A1	20150313	HK20070113632	20071213
HK1108326 A3	20080509	HK20070113632	20071213
JP2008515448 T2	20080515	JP20070536125T	20051011
JP5089393 B2	20121205	JP20070536125T	20051011
US2008311257 AA	20081218	US20050665140	20051011
WO06040195 A2	20060420	WO2005EP11652	20051011
WO06040195 A3	20061012	WO2005EP11652	20051011

Priority:

EP20050799529 20051011 FR20040010716 20041011 FR20050001508 20050215
US20050677343P 20050504 WO2005EP11652 20051011 US20050665140 20051011

Probable Assignee: BARRY CALLEBAUT AG

Assignee(s): (std): BARRY CALLEBAUT AG ; BERTRAND PHILIPPE ; DUBOIS JEROME ; MARAND PHILIPPE

Inventor(s): (std): BERTRAND PHILIPPE ; DUBOIS JEROME ; MARAND PHILIPPE ; PHILIPPE MARAND ; PHILIPPE BERTRAND ; JEROME DUBOIS ; DUBOIS JRME

Agent(s): MEISSNER BOLTE AND PARTNER GBR; PEAUCELLE CHANTAL; CARPINTERO MARIO; THOMAS HOXIE, HOXIE AND TSO; THOMAS HOXIE HOXIE AND TSO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN101090634 A	20071219	LSPB	+	published / reissued	
CN101090634 A	20071219	LSPB	+C06	PUBLICATION	
CN101090634 A	20151125	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
CN101933578 A	20110105	LSPB	+	published / reissued	
CN101933578 A	20110105	LSPB	+C06	PUBLICATION	

CN101933578 A	20140212	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101933578 A	20161130	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN101933578 B	20140212	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101933578 B	20251011	PEXP		Calculated Patent Term Expiry	
EP1799039 A2	20070627	LSPB	+	published / reissued	
EP1799039 A2	20070627	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070413
EP1799039 A2	20070704	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : BARRY CALLEBAUT AG
EP1799039 A2	20090819	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20090715
EP1799039 A2	20140226	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23L 1/221 20060101ALI20140120BHEP
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EP1799039 B1	20140918	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005044424 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140918

EP1799039 B1	20141120	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2523019 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20141120
EP1799039 B1	20141203	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
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EP1799039 B1	20141219	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1108326 COUNTRY OF REF DOCUMENT : HK
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EP1799039 B1	20150715	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150507
EP1799039 B1	20150729	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A

EP1799039 B1	20151019	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
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ES2523019 T3	20141120	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2523019 T3	20251011	PEXP		Calculated Patent Term Expiry	
FR2876248 A1	20060414	LSPB	+	published / reissued	
FR2876248 B1	20080229	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2876248 B1	20151019	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
FR2876248 B1	20161024	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 13
FR2876248 B1	20171018	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 14
FR2876248 B1	20241011	PEXP		Calculated Patent Term Expiry	
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HK1108326 A1	20150313	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1108326 A1	20271213	PEXP		Calculated Patent Term Expiry	
HK1108326 A3	20080509	LSPB	+	published / reissued	
JP2008515448 T2	20080515	LSPB	+	published / reissued	
JP2008515448 T2	20081010	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20081009
JP2008515448 T2	20100702	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100701
JP2008515448 T2	20110105	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110104
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JP2008515448 T2	20110728	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110727

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JP2008515448 T2	20120623	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120622
JP2008515448 T2	20120802	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20120713
JP2008515448 T2	20120809	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20120808
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JP2008515448 T2	20120907	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20120906
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JP2008515448 T2	20120920	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20120911
JP2008515448 T2	20120921	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2008515448 T2	20120921	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP5089393 B2	20121205	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5089393 B2	20120918	LSFE	R100	特許料納付書 Patent fee payment form	
JP5089393 B2	20150917	LSFE	R20	特許料納付書 Patent fee payment form	
JP5089393 B2	20150929	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
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JP5089393 B2	20160927	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5089393 B2	20170914	LSFE	R20	特許料納付書 Patent fee payment form	
JP5089393 B2	20170926	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5089393 B2	20251011	PEXP		Calculated Patent Term Expiry	
US2008311257 AA	20081218	LSPB	+	published / reissued	
US2008311257 AA	20080220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BARRY CALLEBAUT AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BERTRAND, PHILIPPE; MARAND, PHILIPPE; DUBOIS, JEROME; REEL/FRAME:020534/0240; SIGNING DATES FROM 20080209 TO 20080211

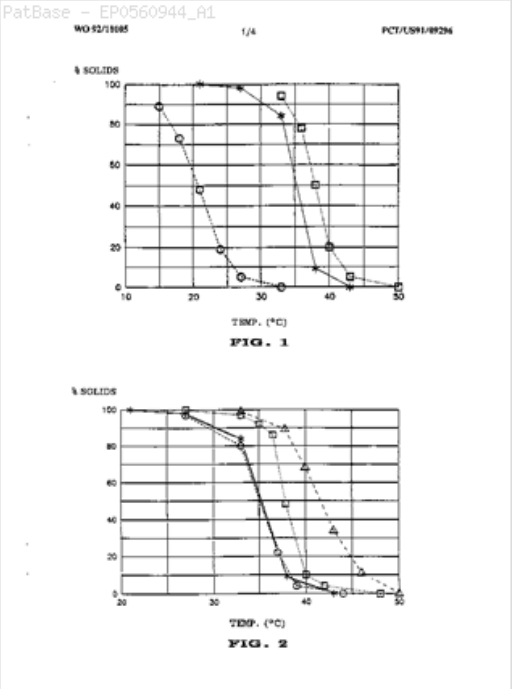
US2008311257 AA	20141224	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO06040195 A2	20060420	LSPB	+	published / reissued	
WO06040195 A3	20070411	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580034621.0 COUNTRY OF REF DOCUMENT : CN
WO06040195 A3	20070411	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007536125 COUNTRY OF REF DOCUMENT : JP
WO06040195 A3	20070412	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06040195 A3	20070413	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005799529 COUNTRY OF REF DOCUMENT : EP
WO06040195 A3	20070627	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005799529 COUNTRY OF REF DOCUMENT : EP
WO06040195 A3	20080220	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11665140 COUNTRY OF REF DOCUMENT : US

73) Family number: 33535293 (EP0560944B1)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Source: EP0560944B1 [EN] (Claim 1) 22. Verfahren zur Herstellung von kalorienarmen Lebensmittelprodukten durch partielles oder vollstandiges Ersetzen der naturlichen oder synthetischen Fette durch kalorienarme Triglyceride nach einem der Anspruche 14 bis 19.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/19 A23L1/30 A23L1/307 C07C69/30 C11C3/00 C11C3/04 C11C3/08 C11C3/10 C11C3/12 (Advanced/Invention);
A21D2/00 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/19 A23L1/30 C07C69/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G3/00 A23G9/02 A23L1/19 A23L1/307 C11C3/00 C11C3/12
CPC: A23L33/115 A23L33/12 A23G1/36 A21D2/165 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10
European: A21D2/16D A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23L1/30C A23L1/30C2 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
CA2097800 AA	19930604	CA19912097800	19911206
CA2097800 C	20030429	CA19912097800	19911206
DE69131354 D1	19990722	DE19916031354	19911206
DE69131354 T2	20000127	DE19916031354T	19911206
EP0560944 A1	19930922	EP19920904174	19911206
EP0560944 A4	19940803	EP19920904174	19911206
EP0560944 B1	19990616	EP19920904174	19911206
ES2136081 T3	19991116	ES19920904174T	19911206
GR3031199 T3	19991231	GR19990402293T	19990909
JP3504260 B2	20040308	JP19920504309T	19911206
JP6506106 T2	19940714	JP19920504309T	19911206

Priority:
US19900624056 19901207 WO1991US09296 19911206

Probable Assignee: NABISCO INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO INC PARSIPPANY N J US ; RODEN ALLAN D ; NABISCO BRANDS INC ; LEVEILLE GILBERT A ; KLEMANN LAWRENCE P ; WHEELER EDWARD L ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; CHRYSAM MICHAEL M ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN PETER S JR

Inventor(s): (std): FINLEY JOHN ; FINLEY JOHN W ; GIVEN PETER ; GIVEN PETER S ; GIVEN PETER S JR ; KLEMANN LAWRENCE ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU ; PELLOSO TURIDDU A ; RODEN ALLAN ; RODEN ALLAN D ; WHEELER EDWARD ; WHEELER EDWARD L ; CHRYSAM MICHAEL M ; D AMELIA RONALD ; D AMELIA RONALD P ; CHRYSAM MICHAEL

Inventor(s): CHRYSAM MICHAEL BLAIRSTOWN NJ 07825 US ; D AMELIA RONALD P HICKSVILLE NY 11801 US

Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2097800 AA	19930604	LSPB	+	published / reissued	
CA2097800 AA	19981118	LSES	+EEER	EXAMINATION REQUEST	

CA2097800 C	20030429	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2097800 C	20071206	LSLE	-MKLA	LAPSED	
CA2097800 C	20111206	PEXP		Calculated Patent Term Expiry	
DE69131354 D1	20000706	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69131354 D1	20071018	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69131354 T2	20000127	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69131354 T2	20111206	PEXP		Calculated Patent Term Expiry	
EP0560944 A1	19930922	LSPB	+	published / reissued	
EP0560944 A1	19930922	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19930705
EP0560944 A1	19940803	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	
EP0560944 A1	19951206	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19951018
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EP0560944 A1	20070815	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0560944 A1	20070821	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP
EP0560944 A1	20070829	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20061206
EP0560944 A1	20070903	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20070701
EP0560944 A1	20071005	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20070831
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EP0560944 A1	20071231	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *NABISCO INC. EFFECTIVE DATE : 20061231
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EP0560944 A1	20080316	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20061207
EP0560944 A1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

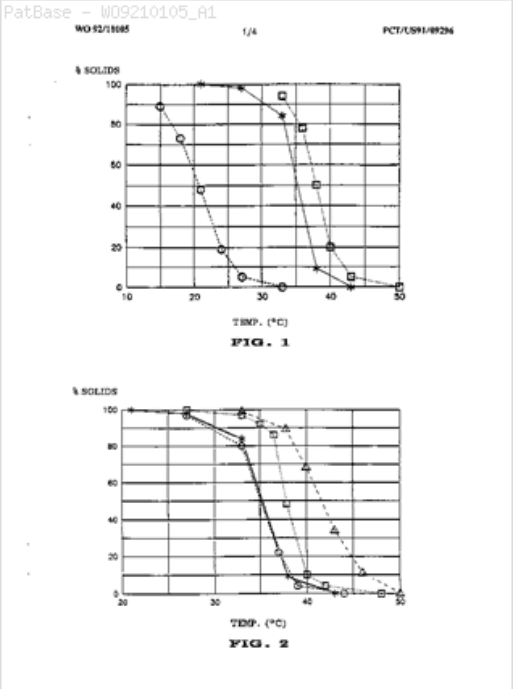
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EP0560944 A1	20080731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20061206
EP0560944 A1	20081031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20070704
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EP0560944 B1	19990616	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0560944 B1	20111206	PEXP		Calculated Patent Term Expiry	
ES2136081 T3	19991116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2136081 T3	19991116	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 560944 COUNTRY OF REF DOCUMENT : ES
ES2136081 T3	20111206	PEXP		Calculated Patent Term Expiry	
GR3031199 T3	19991231	LSGT	+	granted / extensions (spc, cpc, pte)	
GR3031199 T3	20190909	PEXP		Calculated Patent Term Expiry	
JP3504260 B2	20040308	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3504260 B2	20061219	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3504260 B2	20111206	PEXP		Calculated Patent Term Expiry	
JP6506106 T2	19940714	LSPB	+	published / reissued	
JP6506106 T2	20031218	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20031210

74) Family number: 33537736 (WO9210105A1)

Title: REDUCED CALORIE TRIGLYCERIDE MIXTURES

Abstract: Fat mixtures enriched with triglycerides having long, saturated, preferably C16 to C22, fatty acid residues and short, preferably C2 to C4, acid residues are employed in edible compositions as low calorie fats. The preferred embodiments comprise mixtures of at least two triglycerides bearing long residues (e.g. stearyl) and short residues (e.g. acetyl or propyl). In one preferred embodiment, each triglyceride contains short chain residues which are different from those in the other triglyceride. In another preferred embodiment, at least a portion of the triglycerides have two different short residues. Methods of using the low calorie fats and food products incorporating them, particularly in coating, shortening and margarine products, are disclosed.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G1/36 A23G1/38 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/19 A23L1/30 C07C69/30 C11C3/00 C11C3/04 C11C3/08 C11C3/10 C11C3/12 (Advanced/Invention);
A21D2/00 A23D7/00 A23D7/015 A23D9/00 A23D9/007 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/19 A23L1/30 C07C69/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23D9/00
CPC: A23L33/115 A23L33/12 A23G1/36 A21D2/165 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/38 A23G3/343 A23G3/346 A23G9/327 A23G2200/08 C07C69/30 C11C3/04 C11C3/08 C11C3/10
European: A21D2/16D A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G1/38 A23G3/34C A23G3/34E A23G9/32G A23L1/30C A23L1/30C2 C07C69/30 C11C3/04 C11C3/08 C11C3/10 K23G200/08



Family:

Publication number	Publication date	Application number	Application date
AT181210 E	19990715	AT19910904174T	19911206
DK0560944 T3	20000110	DK19910904174T	19911206
WO9210105 A1	19920625	WO1991US09296	19911206

Priority:

US19900624056 19901207 WO1991US09296 19911206

Probable Assignee: NABISCO BRANDS INC

Assignee(s): (std): NABISCO BRANDS INC ; NABISCO INC

Inventor(s): (std): CHRYSAM MICHAEL ; D AMELIA RONALD P ; FINLEY JOHN W ; GIVEN PETER S ; KLEMANN LAWRENCE P ; LEVEILLE GILBERT A ; OTTERBURN MICHAEL S ; PELLOSO TURIDDU A ; RODEN ALLAN D ; WHEELER EDWARD L

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LU MC NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT181210 E	19990715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT181210 E	20000115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT181210 E	20070915	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT181210 E	20111206	PEXP		Calculated Patent Term Expiry	
DK0560944 T3	20000110	LSGT	+	granted / extensions (spc, cpc, pte)	
DK0560944 T3	20111206	PEXP		Calculated Patent Term Expiry	
WO9210105 A1	19920625	LSPB	+	published / reissued	
WO9210105 A1	19930604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2097800 COUNTRY OF REF DOCUMENT : CA

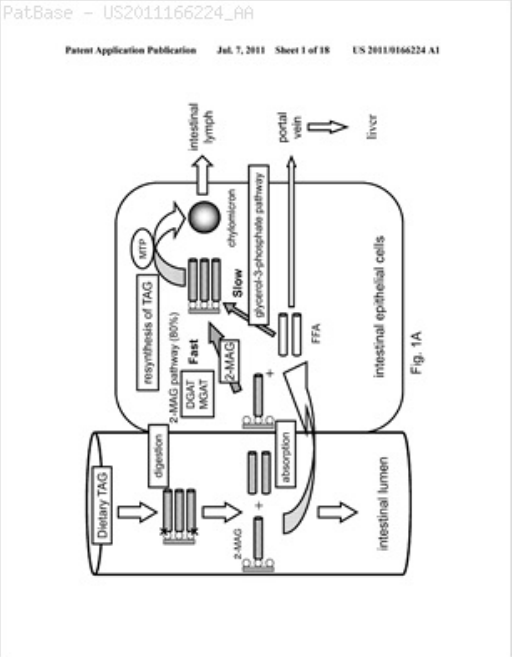
WO9210105 A1	19930705	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1992904174 COUNTRY OF REF DOCUMENT : EP
WO9210105 A1	19930922	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992904174 COUNTRY OF REF DOCUMENT : EP
WO9210105 A1	19990616	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1992904174 COUNTRY OF REF DOCUMENT : EP

75) Family number: 44402933 (US2011166224A)

Title: DIACYLGLYCEROL RICH FATS, OILS AND FUNCTIONAL FOODS

Abstract: Source: US2011166224A [EN] Disclosed is a fat or oil useful for cooking applications which includes from 10 to 90 percent by weight diacylglycerols, and has a SFI of at least 15 percent at room temperature. In particular embodiments, the fat or oil is derived from palm oil, palm kernel oil, coconut oil, sunflower oil, soybean oil, corn oil, rapeseed oil, grape seed oil, rice bran oil, sesame oil, and peanut oil, or any combination thereof. In some cases, the fat or oil exhibits health benefits including lowered serum LDL, raised serum HDL, lowered total serum cholesterol, reduced risk of metabolic syndrome, reduced risk of diabetes mellitus, enhanced fetal health, enhanced insulin sensitivity, reduced risk of hypertension, and enhanced resistance to obesity per unit of consumption. Food compositions and methods of health enhancement utilizing the fats and oils of the invention are also disclosed.

Classifications:
International (IPC 8-9): A21D10/00 A21D13/00 A21D13/08 A23C15/12 A23C19/00 A23C9/123 A23D7/00 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23D9/02 A23L1/01 A23L1/187 A23L1/24 A23L1/29 A23L1/30 A23L33/00 A61K31/22 A61K31/23 A61P3/00 A61P3/06 A61P3/10 A61P9/00 A61P9/10 A61P9/12 (Advanced/Invention); A23D9/007 A23D9/02 A23L1/29 (Advanced/Non-invention); A23D9/007 A23L1/29 (Core/Invention)
International (IPC 1-7): A23L1/29
CPC: A23D7/011 A23D7/013 A23L7/126 A23L25/10 A23L33/11 A23L33/115 A23L33/30 A23L33/12 A23D9/013 A21D2/16 A21D2/165 A23C9/1315 A23C15/126 A23C19/093 A61K31/23 A61K31/231 A61K45/06
European: A21D2/16 A21D2/16D A23C15/12F A23C19/093 A23C9/13D A23D7/01N A23D7/01S A23D9/013 A23L1/164C A23L1/29D A23L1/30B2 A23L1/30C A23L1/30C2 A23L1/38 A61K31/23 A61K31/231 A61K45/06
US: 426/2 426/2S 426/417 426/417S 426/442 426/442S 426/549 426/549S 426/556 426/556S 426/560 426/560S 426/572 426/572S 426/579 426/579S 426/581 426/581S 426/582 426/582S 426/583 426/583S 426/589 426/589S 426/601 426/601S 426/603 426/603S 426/605 426/605S 426/607 426/607S 514/547



Family:

Publication number	Publication date	Application number	Application date
BRPI0917949 A2	20150818	BR2009PI17949	20090811
CA2733569 AA	20100218	CA20092733569	20090811
CN102176834 A	20110907	CN200980140089	20090811
EP2323497 A1	20110525	EP20090807183	20090811
IN01062KN2011 A	20110617	IN2011KN01062	20110311
KR20110049868 A	20110512	KR20117005796	20090811
MX2011001673 A1	20110812	MX20110001673	20090811
US2011166224 AA	20110707	US20100981302	20101229
WO10019598 A1	20100218	WO2009US53442	20090811
WO12092463 A1	20120705	WO2011US67794	20111229

Priority:

US20080087926P 20080811 US20080087991P 20080811 WO2009US53442 20090811 US20100981302 20101229

Probable Assignee: ABUNDA NUTRITION INC

Assignee(s): (std): ABUNDA INC ; ABUNDA NUTRITION INC ; EVOLVA NUTRITION INC ; KISHORE GANESH ; KISHORE GANESH M ; LOCASCIO RICCARDO G

Inventor(s): (std): GANESH KISHORE ; KISHORE GANESH ; KISHORE GANESH M ; LOCASCIO RICCARDO G

Inventor(s): GANESH M KISHORE

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; BOEHM BRIGITTE; BLOSSER HARLEY G; MCCORMICK GRAHAM MONICA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI0917949 A2	20151208	LSFE	-B08F	APPLICATION FEES:	TEXT : REFERENTE AS 4A, 5A E 6A ANUIDADES.

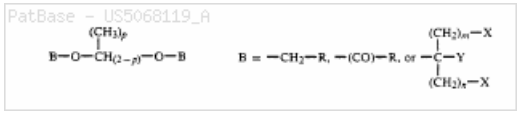
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BRPI0917949 A2	20160405	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2344 DE 08-12-2015 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
CA2733569 AA	20100218	LSPB	+	published / reissued	
CA2733569 AA	20131008	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20130813
CN102176834 A	20110907	LSPB	+	published / reissued	
CN102176834 A	20110907	LSPB	+C06	PUBLICATION	
CN102176834 A	20120321	LSRE	C53	CORRECTION OF PATENT FOR INVENTION OR PATENT APPLICATION	
CN102176834 A	20120321	LSRE	COR	CHANGE OF BIBLIOGRAPHIC DATA	TEXT : CORRECT: APPLICANT; FROM: ABUNDA NUTRITION INC. TO: YIWOWA NUTRIOLOGY CO., LTD.
CN102176834 A	20130807	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP2323497 A1	20110525	LSPB	+	published / reissued	
EP2323497 A1	20110525	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110311
EP2323497 A1	20120516	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : EVOLVA NUTRITION INC.
EP2323497 A1	20130904	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20130301
IN01062KN2011 A	20110617	LSPB	+	published / reissued	
KR20110049868 A	20110512	LSPB	+	published / reissued	
KR20110049868 A	20120209	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20110049868 A	20140912	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
MX2011001673 A1	20110812	LSPB	+	published / reissued	
MX2011001673 A1	20120831	LSAS	GB	TRANSFER OR ASSIGNMENT	
MX2011001673 A1	20120831	LSAS	GB	TRANSFER OR ASSIGNMENT	PARTYTYPE : OWNER OWNER : EVOLVA NUTRITION, INC.
MX2011001673 A1	20171002	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
US2011166224 AA	20110707	LSPB	+	published / reissued	
US2011166224 AA	20110315	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ABUNDA NUTRITION, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KISHORE, GANESH M.; LOCASCIO, RICCARDO G.; SIGNING DATES FROM 20110226 TO 20110307; REEL/FRAME:025952/0756

US2011166224 AA	20130502	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO10019598 A1	20100218	LSPB	+	published / reissued	
WO10019598 A1	20110209	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2733569 COUNTRY OF REF DOCUMENT : CA
WO10019598 A1	20110212	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO10019598 A1	20110311	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20117005796 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10019598 A1	20150818	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0917949 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20110211
WO12092463 A1	20120705	LSPB	+	published / reissued	
WO12092463 A1	20130701	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12092463 A1	20140122	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 11810973 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

76) Family number: 4855653 (US5068119A)

Title: ACID-HYDROLYZABLE ESTER DERIVATIVES AS LOW CALORIE FAT MIMETICS

Abstract: Source: US5068119A [EN] Acid-hydrolyzable ester derivatives, notably compounds having the following formula where X=H, an alkyl having 1 to 4 carbons, -O-(CO)-R, or -(CO)-O-R, or mixtures thereof, Y=H, an alkyl having 1 to 4 carbons, or -(CO)-O-R, R=an aliphatic group having 1 to 29 carbons, m=0, 1, or 2, n=0, 1, or 2, and p=0, 1, or 2, are a new class of edible fat mimetics suitable for use in neutral or alkaline food compositions.



Classifications:
International (IPC 8-9): A21D2/14 A23C9/152 A23D7/01 A23D9/013 A23G3/34 A23L1/19 A23L1/30 A23L1/308 C07C69/708 (Advanced/Invention);
A21D2/00 A23C9/152 A23D7/005 A23D9/007 A23G3/34 A23L1/19 A23L1/30 A23L1/308 C07C69/00 (Core/Invention)
International (IPC 1-7): A23D9/00
CPC: Y10S426/804 C07C69/708 A21D2/14 A23C9/1528 A23D7/013 A23D9/013 A23G3/346 A23G2200/08 A23L9/22 A23L33/115 A23L33/25
European: A21D2/14 A23C9/152F A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23L1/19B A23L1/308F A23L1/30C C07C69/708 K23G200/08
US: 426/601 426/611 426/804

Family:

Publication number	Publication date	Application number	Application date
US5068119 A	19911126	US19900590298	19900928

Priority:

US19900590298 19900928

Probable Assignee: NABISCO TECHNOLOGY CO
Assignee(s): (std): NABISCO BRANDS INC
Assignee(s): NABISCO INC ; NABISCO INC A NJ CORP ; NABISCO TECHNOLOGY CO
Inventor(s): (std): FINLEY JOHN W ; KLEMANN LAWRENCE P

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US5068119 A	19911126	LSGT	+	granted / extensions (spc, cpc, pte)	
US5068119 A	19900928	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., 200 DEFOREST AVE., EAST HANO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; REEL/FRAME:005468/0106 EFFECTIVE DATE : 19900927
US5068119 A	19911115	LSGT	PAT1	Patented Case	
US5068119 A	19920326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A NJ CORP., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A DE CORP.; REEL/FRAME:006059/0606 EFFECTIVE DATE : 19920323
US5068119 A	19950215	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5068119 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5068119 A	19991128	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5068119 A	20000208	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19991126
US5068119 A	20100928	PEXP		Calculated Patent Term Expiry	

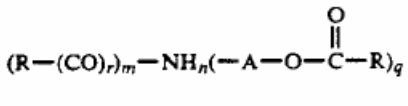
77) Family number: 4945873 (US5093142A)

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Title: ALCOHOL AMINE ESTERS AS LOW CALORIE FAT MIMETICS

Abstract: Source: US5093142A [EN] Alcohol amine ester derivatives are disclosed as fat mimetic compounds for reduced calorie food compositions. These compounds have a nitrogen to which is attached at least one fatty acid ester or ester derivative via an alkylene bridge and at least one other fatty group which can be attached either as a second fatty acid ester via an alkylene bridge, or in amine or amide linkage. These compounds can be represented by the following formula: where m, n, q and r are integers, A is -(CH2)2-, -(CH2)3-, or -CH2CH(CH3)-, and the R groups are, independently, C1 to C29 aliphatic, ester or ether groups. Preferred compounds are partially digestible and have m+q=3, or three R groups.

PatBase – US5093142_A



Classifications:
International (IPC 8-9): A21D2/24 A23C19/05 A23C9/152 A23D7/01 A23D9/013 A23G1/00 A23G1/38 A23G1/56 A23G9/52 A23K1/18 A23L1/187 A23L1/19 A23L1/30 (Advanced/Invention);
A21D2/00 A23C19/00 A23C9/152 A23D7/005 A23D9/007 A23G1/00 A23G1/30 A23G9/52 A23K1/18 A23L1/187 A23L1/19 A23L1/30 (Core/Invention)
International (IPC 1-7): A23L1/307 C09F5/00
CPC: Y10S426/804 A23G1/56 A21D2/24 A23C9/1528 A23C19/054 A23D7/013 A23D9/013 A23G1/38 A23G9/52 A23G2200/08 A23K50/42 A23L9/12 A23L9/22 A23L33/115
European: A21D2/24 A23C19/05H A23C9/152F A23D7/01S A23D9/013 A23G1/00K A23G1/00K+D8 A23G1/38 A23G1/56 A23G9/02K A23G9/02K+D8 A23G9/52 A23K1/18N2 A23L1/187B A23L1/19B A23L1/30C K23G200/08
US: 260/404 260/404.5 426/531 426/601 426/611 426/804 554/110

Family:

Publication number	Publication date	Application number	Application date
US5093142 A	19920303	US19890409381	19890919

Priority:

US19890409381 19890919

Probable Assignee: NABISCO TECHNOLOGY CO

Assignee(s): (std): NABISCO BRANDS INC

Assignee(s): NABISCO BRANDS INC A CORP OF DE ; NABISCO INC ; NABISCO INC A NJ CORP ; NABISCO TECHNOLOGY CO

Inventor(s): (std): SCIMONE ANTHONY ; KLEMANN LAWRENCE P ; FINLEY JOHN W

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5093142 A	19920303	LSGT	+	granted / extensions (spc, cpc, pte)	
US5093142 A	19890919	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; SCIMONE, ANTHONY; REEL/FRAME:005151/0283 EFFECTIVE DATE : 19890918
US5093142 A	19910122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., A CORP. OF DE, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:YARGER, RONALD G.; REEL/FRAME:005594/0450 EFFECTIVE DATE : 19901217
US5093142 A	19920221	LSGT	PAT1	Patented Case	
US5093142 A	19920326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A NJ CORP., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A DE CORP.; REEL/FRAME:006059/0606 EFFECTIVE DATE : 19920323
US5093142 A	19940517	LSRE	CC	CERTIFICATE OF CORRECTION	
US5093142 A	19950627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5093142 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.;

					REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5093142 A	20000305	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5093142 A	20000516	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20000303
US5093142 A	20090919	PEXP		Calculated Patent Term Expiry	

78) Family number: 49953058 (US2012100251A)

Title: FOOD COMPOSITIONS COMPRISING ORGANOGELS

Abstract: Source: US2012100251A [EN] The present invention is directed towards organogel compositions. Processes for producing such organogel compositions are further disclosed. The present invention is also directed towards uses of the novel organogel compositions in foods, beverages, nutraceuticals, pharmaceuticals, pet food, or animal feed.

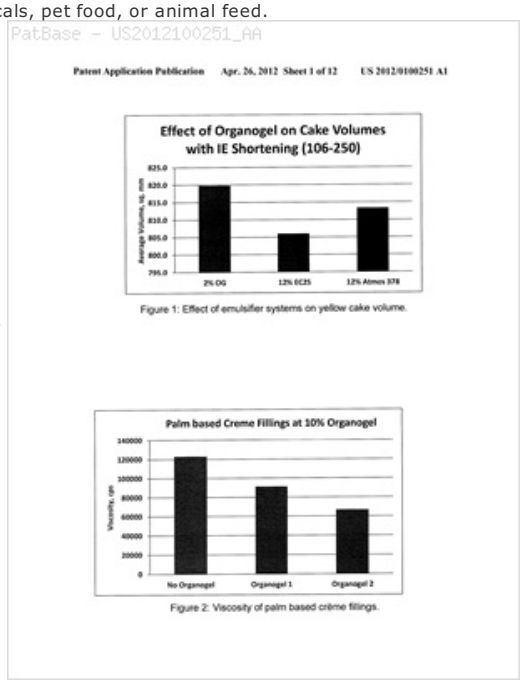
Classifications:

International (IPC 8-9): A21D13/00 A21D2/16 A21D2/32 A23C9/00 A23D7/00 A23D7/01 A23D9/00 A23D9/013 A23G1/00 A23G1/30 A23G3/34 A23G3/38 A23G3/50 A23G9/00 A23J7/00 A23K1/00 A23K1/16 A23K1/20 A23K20/00 A23K20/158 A23K40/00 A23L A23L1/00 A23L1/035 A23L1/05 A23L1/222 A23L1/223 A23L1/23 A23L1/24 A23L1/28 A23L1/302 A23L1/304 A23L2/00 A23L27/60 A23L29/10 A23L29/20 A23L29/206 A61K A61K47/10 A61K47/14 A61K47/22 A61K47/24 A61K47/26 A61K47/28 A61K47/36 A61K47/38 A61K47/42 A61K47/44 A61K47/46 A61K8/04 A61K9/06 A61K9/10 A61K9/107 A61K9/127 C08J3/09 C11B5/00 (Advanced/Invention);
A21D13/00 A23D9/00 A23J7/00 (Core/Invention);
A21D A23D A23G A23J A23K A61K (Subclass/Invention)

CPC: A21D9/013 A21D7/013 A23V2250/192 A23G2200/08 A23V2250/5086 A23V2250/1842 A23V2200/228 A23V2250/194 A21D2/16 A21D2/165 A21D2/32 A23D7/011 A23D7/013 A23D9/013 A23G3/346 A23J7/00 A23V2002/00 A23K20/158 A23L29/10 A23P20/11 A21D13/16

European: A21D13/00F4 A21D2/16 A21D2/16D A21D2/32 A23D7/01N A23D7/01S A23D9/013 A23G3/34E A23J7/00 A23K1/16I A23L1/00P8B8 K23V2/00

US: 426/33 426/33P 426/442 426/442S 426/546 426/546S 426/556 426/572 426/572S 426/573 426/575 426/576 426/577 426/578 426/580 426/583 426/590 426/601 426/602 426/603 426/605 426/606 426/606S 426/615 426/615S 426/631 426/648 426/648S 426/651 426/651S 426/654 426/655 426/655S 426/659 426/660 426/662 426/662S



Family:

Publication number	Publication date	Application number	Application date
AU2011252887 AA	20111117	AU20110252887	20110513
AU2011252887 BB	20160512	AU20110252887	20110513
BR112012029040 A2	20160802	BR20121129040	20110513
CA2800315 AA	20121109	CA20112800315	20110513
CN102946866 A	20130227	CN201180030757	20110513
EP2568963 A1	20130320	EP20110781352	20110513
EP2568963 A4	20140312	EP20110781352	20110513
IL222928 A0	20121231	IL20110222928	20110513
IL222928 A1	20161031	IL20110222928	20110513
IN10634DN2012 A	20140926	IN2012DN10634	20121206
JP2013531479 T2	20130808	JP20130510341T	20110513
JP5901617 B2	20160413	JP20130510341T	20110513
MX2012013200 A1	20140227	MX20120013200	20110513
MX339957 B	20160620	MX20120013200	20110513
SG185499 A1	20121228	SG20120082657	20110513
US2012100251 AA	20120426	US20120344114	20120105
US2013095221 AA	20130418	US20110376864	20110513
US2014242246 A9	20140828	US20110376864	20110513
US8846126 BB	20140930	US20110376864	20110513
WO11143566 A1	20111117	WO2011US36448	20110513
ZA201209429 A	20140226	ZA20120009429	20121212

Priority:

US20080114510P 20081114 US20100334766P 20100514 US20110376864 20110513
US20120344114 20120105 US20110128530 20110510 WO2009US64407 20091113
WO2011US36448 20110513

Probable Assignee: ARCHER DANIELS MIDLAND CO

Assignee(s): (std): ARCHER DANIELS MIDLAND CO ; BASEETH SHIREEN ; SEBREE BRUCE ; BASEETH SHIREEN S ; SEBREE BRUCE R

Assignee(s): ARCHER DANIELS MIDLAND CO4666 FARIES PARKWAYDECATURIL62526US ; ARCHER DANIELS MIDLAND COMPANY ; ARCHER-DANIELS-MIDLAND COMPANY

Inventor(s): (std): BASEETH SHIREEN S ; BRUCE SEBREE ; SEBREE BRUCE R ; SHIREEN BASEETH ; SEBREE BRUCE ; BASEETH SHIREEN

Inventor(s): SEBREE BRUCEUS ; BASEETH SHIREENUS

Agent(s): A J PARK; AJ PARK; BERESKIN AND PARR LLP SENCRL SRL; BENOIT AND COTE INC; von Kreisler Selting Werner; REINHOLD COHN AND PARTNERS; INABA YOSHIYUKI; ANDREW F; NILLES ANDREW

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY

MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2011252887 AA	20111117	LSPB	+	published / reissued	
AU2011252887 BB	20160512	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2011252887 BB	20160908	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2011252887 BB	20310513	PEXP		Calculated Patent Term Expiry	
BR112012029040 A2	20180116	LSES	B07D	TECHNICAL EXAMINATION (OPINION) RELATED TO ARTICLE 229 OF INDUSTRIAL PROPERTY LAW	
CA2800315 AA	20121109	LSPB	+	published / reissued	
CA2800315 AA	20160114	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20160106
CN102946866 A	20130227	LSPB	+	published / reissued	
CN102946866 A	20130227	LSPB	+C06	PUBLICATION	
EP2568963 A1	20130320	LSPB	+	published / reissued	
EP2568963 A1	20130320	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20121108
EP2568963 A4	20140312	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20140212
EP2568963 A4	20160406	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20160303
IL222928 A1	20161031	LSPB	+	published / reissued	
IL222928 A1	20170228	LSGT	+FF	PATENT GRANTED	
IL222928 A1	20170228	LSFE	+KB	PATENT RENEWED	
IL222928 A1	20170430	LSFE	+KB	PATENT RENEWED	
IN10634DN2012 A	20140926	LSPB	+	published / reissued	
JP2013531479 T2	20130808	LSPB	+	published / reissued	
JP2013531479 T2	20140417	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20140416
JP2013531479 T2	20141114	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20141113
JP2013531479 T2	20150213	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150213
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JP2013531479 T2	20151116	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20151116

JP2013531479 T2	20160224	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013531479 T2	20160229	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20160226
JP2013531479 T2	20160317	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20160308
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JP5901617 B2	20160413	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5901617 B2	20310513	PEXP		Calculated Patent Term Expiry	
MX2012013200 A1	20140227	LSPB	+	published / reissued	
MX2012013200 A1	20160620	LSGT	+FG	GRANT OR REGISTRATION	
MX339957 B	20160620	LSGT	+	granted / extensions (spc, cpc, pte)	
MX339957 B	20310513	PEXP		Calculated Patent Term Expiry	
SG185499 A1	20121228	LSPB	+	published / reissued	
US2012100251 AA	20120426	LSPB	+	published / reissued	
US2012100251 AA	20120105	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ARCHER DANIELS MIDLAND COMPANY, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BASEETH, SHIREEN; SEBREE, BRUCE; SIGNING DATES FROM 20100715 TO 20100722; REEL/FRAME:027486/0482
US2012100251 AA	20170411	LSAL	NAF1	Notice of Appeal Filed	
US2012100251 AA	20170411	LSAL	NAF1	Notice of Appeal Filed	
US2012100251 AA	20171211	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2013095221 AA	20130418	LSPB	+	published / reissued	
US8846126 BB	20140930	LSGT	+	granted / extensions (spc, cpc, pte)	
US8846126 BB	20140910	LSGT	PAT1	Patented Case	
US8846126 BB	20160302	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ARCHER DANIELS MIDLAND COMPANY, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BASEETH, SHIREEN; SEBREE, BRUCE; SIGNING DATES FROM 20100715 TO 20100722; REEL/FRAME:037868/0618
US8846126 BB	20310513	PEXP		Calculated Patent Term Expiry	
WO11143566 A1	20111117	LSPB	+	published / reissued	
WO11143566 A1	20120914	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13376864 COUNTRY OF REF DOCUMENT : US
WO11143566 A1	20121107	LSNP	ENP	ENTRY INTO THE	REF DOCUMENT NUMBER :

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WO11143566 A1	20121108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 222928 COUNTRY OF REF DOCUMENT : IL
WO11143566 A1	20121109	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2800315 COUNTRY OF REF DOCUMENT : CA
WO11143566 A1	20121114	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11143566 A1	20121129	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2011252887 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20110513 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO11143566 A1	20160802	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112012029040 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20121113
ZA201209429 A	20140226	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201209429 A	20321211	PEXP		Calculated Patent Term Expiry	

79) Family number: 51081119 (US2013302297A)

Title: MONOUNSATURATED FATTY ACID FOR PREVENTING AND/OR TREATING SKIN COMPLEXION IMPERFECTIONS

Abstract: Source: US2013302297A [EN] The invention relates to the oral or nutraceutical cosmetic use of an effective amount of at least one monounsaturated fatty acid, a salt thereof and/or an ester thereof, as an active agent for treating and/or preventing skin complexion imperfections.

Classifications:

International (IPC 8-9): A23K10/18 A23K20/158 A23K20/163 A23K40/30 A23K50/40 A23K50/48 A23L1/30 A23L33/00 A23L33/105 A23L33/115 A23L33/12 A23L33/135 A23L33/16 A23P10/30 A61K31/191 A61K31/194 A61K31/20 A61K31/201 A61K31/215 A61K31/341 A61K31/375 A61K31/695 A61K31/717 A61K35/74 A61K35/741 A61K35/745 A61K35/747 A61K35/78 A61K36/06 A61K36/185 A61K36/23 A61K45/06 A61K8/25 A61K8/36 A61K8/37 A61K8/49 A61K8/92 A61K8/97 A61K8/99 A61P17/00 A61Q19/00 (Advanced/Invention);
A61K35/00 (Advanced/Non-invention)

CPC: A61K31/201 A61K35/745 A61K35/741 A61K35/747 A61K45/06 A61K31/341 A61K31/194 A61K31/20 A61K31/191 A23D9/013 A61K8/361 A61K8/37 A61Q19/02 A23L33/15 A23K10/18 A23K20/158 A23K20/163 A23K40/30 A23K50/40 A23K50/48 A23L33/105 A23L33/115 A23L33/12 A23L33/135 A23L33/16 A23P10/30 A23V2002/00 A61K8/36 A61K8/922 A61K8/99 A61K36/185 A61K36/23 A61K2035/115 A61Q19/00 A23V2200/02 A23V2200/318 A23V2200/3204 A23V2250/21 A23V2250/188

European: A23K1/00B3 A23K1/00C2B A23K1/16I A23K1/16L A23K1/18N A23K1/18N6 A23L1/00P4 A23L1/304 A23L1/30B A23L1/30C A23L1/30C2 A23L1/30M A61K36/185 A61K36/23 A61K8/36 A61K8/92C A61K8/99 A61Q19/00 K23V2/00 K61K35/11A

US: 424/780 424/93.4 424/93.45 514/560

Family:

Publication number	Publication date	Application number	Application date
BR112013011064 A2	20160719	BR20131111064	20111103
CA2816732 AA	20130501	CA20112816732	20111103
CL2013001232 A1	20131220	CL20130001232	20130503
CN103747692 A	20140423	CN201180064169	20111103
EP2635140 A1	20130911	EP20110797362	20111103
FR2967070 A1	20120511	FR20100059144	20101105
FR2967070 B1	20130705	FR20100059144	20101105
MX2013005025 A1	20130603	MX20130005025	20111103
RU2013120495 A	20141210	RU20130120495	20111103
US2013302297 AA	20131114	US20110883700	20111103
US9730905 BB	20170815	US20110883700	20111103
WO12059880 A1	20120510	WO2011IB54895	20111103

Priority:

FR20100059144 20100511 FR20100059144 20101105 US20100344909P 20101115
WO2011IB54895 20111103 US20110883700 20111103

Probable Assignee: LOREAL SA

Assignee(s): (std): CASTIEL ISABELLE ; GUENICHE AUDREY ; OREAL ; NESTEC SA ; NESTEK SA

Assignee(s): LOREAL SA ; L OREAL ; L OREAL SA ; L U0027OREAL S A ; L U0027OREAL SA ; NESTEC S A

Inventor(s): (std): CASTIEL ISABELLE ; GUENICHE AUDREY

Inventor(s): ISABELLE CASTIEL ; AUDREY GUENICHE

Agent(s): ROBIC; ESTUDIO CAREY LTDA; NONY; CABINET NONY; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; LE COUPANEC PASCALE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BR112013011064 A2	20171024	LSES	B07D	TECHNICAL EXAMINATION (OPINION) RELATED TO ARTICLE 229 OF INDUSTRIAL PROPERTY LAW	
CA2816732 AA	20130501	LSPB	+	published / reissued	
CA2816732 AA	20161026	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20161020
CL2013001232 A1	20131220	LSPB	+	published / reissued	
CN103747692 A	20140423	LSPB	+	published / reissued	
CN103747692 A	20140423	LSPB	+C06	PUBLICATION	
CN103747692 A	20170118	LSDW	-C02	DEEMED WITHDRAWAL OF	

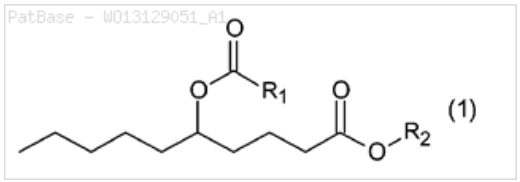
				PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP2635140 A1	20130911	LSPB	+	published / reissued	
EP2635140 A1	20130911	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130503
EP2635140 A1	20140813	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140710
EP2635140 A1	20160102	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R003
EP2635140 A1	20160511	LSRV	-18R	REFUSED	EFFECTIVE DATE : 20160102
FR2967070 A1	20120511	LSPB	+	published / reissued	
FR2967070 B1	20130705	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2967070 B1	20151008	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6
FR2967070 B1	20161014	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 7
FR2967070 B1	20171012	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
FR2967070 B1	20301105	PEXP		Calculated Patent Term Expiry	
MX2013005025 A1	20130603	LSPB	+	published / reissued	
RU2013120495 A	20141210	LSPB	+	published / reissued	
RU2013120495 A	20150210	LSWD	-FA93	ACKNOWLEDGEMENT OF APPLICATION WITHDRAWN (NO REQUEST FOR EXAMINATION)	EFFECTIVE DATE : 20141104
US2013302297 AA	20131114	LSPB	+	published / reissued	
US2013302297 AA	20130723	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : L'OREAL, FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GUENICHE, AUDREY; CASTIEL, ISABELLE; SIGNING DATES FROM 20130605 TO 20130621; REEL/FRAME:030855/0812
US2013302297 AA	20130723	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NESTEC S.A., SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GUENICHE, AUDREY; CASTIEL, ISABELLE; SIGNING DATES FROM 20130605 TO 20130621; REEL/FRAME:030855/0812
US2013302297 AA	20170411	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2013302297 AA	20170705	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2013302297 AA	20170707	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US9730905 BB	20170815	LSGT	+	granted / extensions (spc, cpc, pte)	
US9730905 BB	20151028	LSES	NFA1	Non Final Action Mailed	

US9730905 BB	20170726	LSGT	PAT1	Patented Case	
US9730905 BB	20311103	PEXP		Calculated Patent Term Expiry	
WO12059880 A1	20120510	LSPB	+	published / reissued	
WO12059880 A1	20130501	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2816732 COUNTRY OF REF DOCUMENT : CA
WO12059880 A1	20130506	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12059880 A1	20130605	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2013120495 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12059880 A1	20130719	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13883700 COUNTRY OF REF DOCUMENT : US
WO12059880 A1	20160719	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 112013011064 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20130503

80) Family number: 52339959 (US2014377434A)

Title: NOVEL DECANOIC ACID DERIVATIVES AND FLAVORING COMPOSITIONS

Abstract: Source: US2014377434A [EN] This invention relates to alkyl 5-acyloxydecanoate having formula (1) as follows: wherein R1 denotes a hydrogen atom or an alkyl group having one to four carbon atoms, R2 denotes an alkyl group having one to four carbon atoms, with the proviso that the case where R1 is a methyl group and R2 is a methyl group or an ethyl group is excluded, which is capable of giving to food products or the like a characteristic flavor, or a sensory impression, of milk, fat or cream, and to the use of the same in flavoring compositions.



Classifications:
International (IPC 8-9): A21D13/08 A21D2/00 A21D2/14 A23C9/152 A23D7/00 A23D7/005 A23D7/01 A23D9/00 A23D9/007 A23D9/013 A23F3/00 A23F3/16 A23F5/00 A23F5/24 A23F5/40 A23F5/46 A23G9/00 A23G9/04 A23G9/32 A23L1/19 A23L1/22 A23L1/226 A23L2/56 A23L2/66 A23L27/20 A23L9/20 A61K8/37 A61Q13/00 A61Q19/00 C07C69/34 C07C69/67 C07C69/675 C11B9/00 (Advanced/Invention);
A21D13/08 A21D2/14 A23C9/152 A23D7/00 A23F3/16 A23F5/24 A23G9/04 (Advanced/Non-invention);
C07C69/675 (Core/Invention);
A21D A23C A23D A23F A23G A23L A61K A61Q C07C C11B (Subclass/Invention)
CPC: C07C69/34 C07C69/675 A23D7/00 A23F3/16 A23F5/24 A23G9/04 A23L27/20 C07C67/03 A21D13/80 A23L27/206 A21D2/14 A23C9/152 A23D7/0056 A23D7/013 A23D9/007 A23D9/013 A23F3/163 A23F5/243 A23F5/405 A23F5/465 A23G9/32 A23L1/22642 A23L2/56 A23L2/66 A23L27/2028 A61K8/37 A61K2800/10 A61Q19/00 C07C69/67 C11B9/0019
US: 426/534 560/190

Family:

Publication number	Publication date	Application number	Application date
CN104093695 A	20141008	CN201380008798	20130206
CN104093695 B	20160831	CN201380008798	20130206
HK1198585 A1	20150430	HK20140112070	20141201
JP2013173708 A2	20130905	JP20120040042	20120227
JP5048163 B1	20121017	JP20120040042	20120227
KR101641811 B1	20160721	KR20147026456	20130206
KR20140124860 A	20141027	KR20147026456	20130206
TH149413 A	20160504	TH20141004886	20130206
TW201340885 A	20131016	TW20130106627	20130226
TWI474783 B	20150301	TW20130106627	20130226
US2014377434 AA	20141225	US20130370305	20130206
US9775371 BB	20171003	US20130370305	20130206
WO13129051 A1	20130906	WO2013JP52771	20130206

Priority:
JP20120040042 20120227 WO2013JP52771 20130206

Probable Assignee: T HASEGAWA CO LTD
Assignee(s): (std): HASEGAWA T CO LTD ; T HASEGAWA CO LTD
Assignee(s): THASEGAWA CO ; T HASEGAWA CO
Inventor(s): (std): HARAGUCHI KENJI ; OGURO DAICHI ; TAKAKU HIROYASU
Agent(s): WENDEROTH LIND AND PONACK LLP; PATENT PROFESSION ODAJIMA PATENT OFFICE CORP
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CN104093695 A	20141008	LSPB	+	published / reissued	
CN104093695 A	20141008	LSPB	+C06	PUBLICATION	
CN104093695 B	20160831	LSGT	+	granted / extensions (spc, cpc, pte)	
CN104093695 B	20160831	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN104093695 B	20171201	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1198585 COUNTRY OF REF DOCUMENT : HK
CN104093695 B	20330206	PEXP		Calculated Patent Term Expiry	
HK1198585 A1	20150430	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1198585 A1	20341201	PEXP		Calculated Patent	

				Term Expiry	
JP2013173708 A2	20130905	LSPB	+	published / reissued	
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JP5048163 B1	20120706	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5048163 B1	20120718	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20120717
JP5048163 B1	20120719	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP5048163 B1	20120724	LSFE	R100	特許料納付書 Patent fee payment form	
JP5048163 B1	20120726	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20120718
JP5048163 B1	20120727	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP5048163 B1	20120727	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
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JP5048163 B1	20160602	LSFE	R20	特許料納付書 Patent fee payment form	
JP5048163 B1	20160607	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP5048163 B1	20170105	LSFE	R20	特許料納付書 Patent fee payment form	
JP5048163 B1	20170110	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP5048163 B1	20171221	LSFE	R20	特許料納付書 Patent fee payment form	
JP5048163 B1	20171226	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP5048163 B1	20320227	PEXP		Calculated Patent Term Expiry	
KR101641811 B1	20160721	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101641811 B1	20330206	PEXP		Calculated Patent Term Expiry	
KR20140124860 A	20141027	LSPB	+	published / reissued	
KR20140124860 A	20140922	LSES	A201	REQUEST FOR EXAMINATION	
KR20140124860 A	20151125	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20140124860 A	20160428	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
TH149413 A	20160504	LSPB	+	published / reissued	
TW201340885 A	20131016	LSPB	+	published / reissued	
TWI474783 B	20150301	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI474783 B	20330226	PEXP		Calculated Patent Term Expiry	
US2014377434 AA	20141225	LSPB	+	published / reissued	

US2014377434 AA	20140702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : T. HASEGAWA CO., LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:OGURO, DAICHI; HARAGUCHI, KENJI; TAKAKU, HIROYASU; REEL/FRAME:033231/0471 EFFECTIVE DATE : 20140625
US2014377434 AA	20170405	LSES	NFA1	Non Final Action Mailed	
US2014377434 AA	20170728	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2014377434 AA	20170823	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2014377434 AA	20170825	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US9775371 BB	20171003	LSGT	+	granted / extensions (spc, cpc, pte)	
US9775371 BB	20170913	LSGT	PAT1	Patented Case	
US9775371 BB	20340213	PEXP		Calculated Patent Term Expiry (PTA 372 days)	
WO13129051 A1	20130906	LSPB	+	published / reissued	
WO13129051 A1	20140827	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13129051 A1	20140922	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20147026456 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13129051 A1	20150325	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13754108 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

81) Family number: 59460472 (US2016317592A)

Title: MICROBIAL OIL, PRODUCTION METHOD FOR MICROBIAL OIL, CONCENTRATED MICROBIAL OIL, AND PRODUCTION METHOD FOR CONCENTRATED MICROBIAL OIL

Abstract: Source: US2016317592A [EN] A microbial oil comprising: a specific amount of at least one polyunsaturated fatty acid having at least 20 carbon atoms in fatty acid alkyl ester form and/or in free fatty acid form; and specific amount of thermally-produced fatty acid having from 16 to 22 carbon atoms in a fatty acid alkyl ester form and/or a free fatty acid form. A production method thereof comprising: providing a starting oil containing at least one polyunsaturated fatty acid having at least 20 carbon atoms in an alkyl ester form and/or a free fatty acid form obtained from microbial biomass; performing a rectification of the starting oil under specific conditions; and obtaining the aforementioned microbial oil. A concentrated microbial oil obtained using the production method described above, and a production method thereof. An agent for treating or preventing an inflammatory disease comprising the microbial oil or the concentrated microbial oil.

Classifications:
International (IPC 8-9): A01N37/06 A23D9/00 A23D9/013 A23D9/02 A23K1/16 A23K10/40 A23K20/158 A23L1/30 A23L33/10 A23L33/115 A23L33/12 A61K31/201 A61K31/202 A61K31/231 A61K31/232 A61K35/74 A61K36/02 A61K36/06 A61K36/062 A61K8/36 A61K8/37 A61K8/92 A61K8/99 A61P17/00 A61P17/02 A61P17/04 A61P17/06 A61P29/00 A61P37/06 A61P37/08 A61Q19/00 C11B1/00 C11B1/02 C11B3/02 C11B3/10 C11B3/12 C11C1/00 C11C1/04 C11C3/00 C11C3/10 C12N1/28 C12P7/62 C12P7/64 (Advanced/Invention)
CPC: A23D9/013 A23D9/02 A23K20/158 A61K31/202 C11B3/10 C12N1/28 C12P7/6427 A01N37/06 A61K36/06 A23L33/115 A61K8/361 A61K8/99 A61Q19/00 C11B1/025 C11B3/12 C11C1/005 C11C3/10 C12P7/6436 C12P7/6463
US: 424/195.15 514/560

Family:

Publication number	Publication date	Application number	Application date
AU2014358123 AA	20150611	AU20140358123	20141204
AU2014358123 AB	20160908	AU20140358123	20141204
AU2014358145 AA	20150611	AU20140358145	20141204
CA2930897 AA	20160517	CA20142930897	20141204
CA2932728 AA	20160603	CA20142932728	20141204
CN105793432 A	20160720	CN201480066446	20141204
CN105814209 A	20160727	CN201480066445	20141204
EP3077489 A2	20161012	EP20140828057	20141204
EP3101138 A1	20161207	EP20140868372	20141204
EP3101138 A4	20170816	EP20140868372	20141204
IN201637019806 A	20160826	IN201637019806	20160609
IN201637019808 A	20160826	IN201637019808	20160609
JP2015083806 A1	20170316	JP20150551566T	20141204
JP2017502114 T2	20170119	JP20160536792T	20141204
SG11201604500Y A1	20160728	SG20161104500	20141204
US2016317592 AA	20161103	US20140101436	20141204
US2017000116 AA	20170105	US20140101581	20141204
US2018042230 AA	20180215	US20170792963	20171025
US9820484 BB	20171121	US20140101581	20141204
WO15083806 A1	20150611	WO2014JP82167	20141204
WO15083843 A2	20150611	WO2014JP82770	20141204
WO15083843 A3	20150917	WO2014JP82770	20141204

Priority:

JP20130251401 20131204 US20160101581 20160603 WO2014JP82770 20141204
WO2014JP82167 20141204 US20170792963 20171025

Probable Assignee: NIPPON SUISAN KAISHA LTD

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Assignee(s): YAMAGUCHI HIDEAKI ; OHTSUKA NAOMI ; SATO SEIZO ; DOISAKI NOBUSHIGE ; FUKAE TAKURO ; IKEDA RIE ; KOSUGE YUHEI

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Agent(s): GRIFFITH HACK; SMART AND BIGGAR; STONER GERARD PATRICK; DRINKER BIDDLE AND REATH LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2014358123 AA	20150611	LSPB	+	published / reissued	
AU2014358123 AB	20160908	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 17 AUG 2016
AU2014358145 AA	20150611	LSPB	+	published / reissued	

AU2014358145 AA	20170309	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS: AMEND THE INVENTION TITLE TO READ MICROBIAL OIL, PRODUCTION METHOD FOR MICROBIAL OIL, CONCENTRATED MICROBIAL OIL, AND PRODUCTION METHOD FOR CONCENTRATED MICROBIAL OIL
CA2930897 AA	20160517	LSPB	+	published / reissued	
CA2932728 AA	20160603	LSPB	+	published / reissued	
CN105793432 A	20160720	LSPB	+	published / reissued	
CN105793432 A	20160720	LSPB	+C06	PUBLICATION	
CN105814209 A	20160727	LSPB	+	published / reissued	
CN105814209 A	20160727	LSPB	+C06	PUBLICATION	
EP3077489 A2	20161012	LSPB	+	published / reissued	
EP3077489 A2	20161012	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20160701
EP3077489 A2	20170222	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20170124
EP3101138 A1	20161207	LSPB	+	published / reissued	
EP3101138 A1	20161207	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20160701
EP3101138 A4	20170816	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20170714
EP3101138 A4	20170816	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A23K 10/40 20160101ALI20170707BHEP
EP3101138 A4	20170816	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 31/232 20060101ALI20170707BHEP
EP3101138 A4	20170816	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61K 8/36 20060101ALI20170707BHEP
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IN201637019806 A	20160826	LSPB	+	published / reissued	
IN201637019808 A	20160826	LSPB	+	published / reissued	
JP2015083806 A1	20170316	LSPB	+	published / reissued	
JP2015083806 A1	20171026	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20171026
JP2017502114 T2	20170119	LSPB	+	published / reissued	
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SG11201604500Y A1	20160728	LSPB	+	published / reissued	
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US2016317592 AA	20160603	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:YAMAGUCHI, HIDEAKI; KOSUGE, YUHEI; IKEDA, RIE; AND OTHERS; SIGNING DATES FROM 20160523 TO 20160525; REEL/FRAME:038793/0533
US2016317592 AA	20170725	LSES	NFA1	Non Final Action Mailed	
US2016317592 AA	20171122	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2016317592 AA	20171128	LSES	NFA1	Non Final Action Mailed	
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US2017000116 AA	20160603	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SATO, SEIZO; FUKAE, TAKURO; OHTSUKA, NAOMI; AND OTHERS; SIGNING DATES FROM 20160519 TO 20160525; REEL/FRAME:038799/0004
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US2017000116 AA	20170731	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
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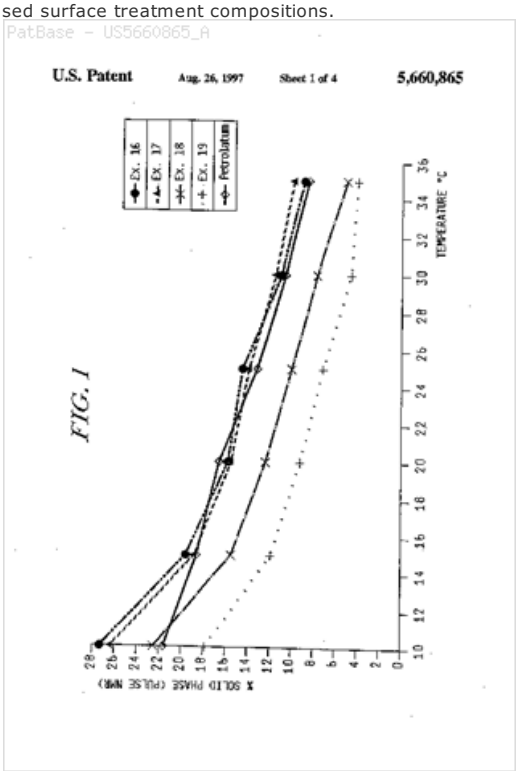
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US2017000116 AA	20171010	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2017000116 AA	20171017	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
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US2018042230 AA	20171025	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SATO, SEIZO; FUKAE, TAKURO; OHTSUKA, NAOMI; AND OTHERS; SIGNING DATES FROM 20160519 TO 20160525; REEL/FRAME:044293/0237
US9820484 BB	20171121	LSGT	+	granted / extensions (spc, cpc, pte)	
US9820484 BB	20171101	LSGT	PAT1	Patented Case	
US9820484 BB	20341204	PEXP		Calculated Patent Term Expiry	
WO15083806 A1	20150611	LSPB	+	published / reissued	
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WO15083806 A1	20160707	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2014358145 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20141204 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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82) Family number: 8744411 (US5660865A)

Title: SURFACE TREATMENT COMPOSITION

Abstract: Source: US5660865A [EN] PCT No. PCT/DK93/00308 Sec. 371 Date May 8, 1995 Sec. 102(e) Date May 8, 1995 PCT Filed Sep. 24, 1993 PCT Pub. No. WO94/07373 PCT Pub. Date Apr. 14, 1994A composition for use as a substitute for petrolatum and for surface treatment of confectionery, food products and surfaces which get in contact therewith as well as for external treatment of animals and plants comprises (a) oxidation resistant glyceride oil and/or liquid wax, (b) solid wax, which may be omitted if (a) comprises liquid wax, (c) structuring fat, and optionally (d) additions selected from crystallization inhibitors, hydrolysis inhibitors, food product ingredients, additives to food products, diet supplements, bioactive substances, cosmetic ingredients, pigments, and solvents. The combination of oxidation resistant glyceride oil, wax and structuring fat provides a composition with a semi-transparent, petrolatum-like structure having a high taste and smell stability, good gloss and anti-sticking effect, regulated adhesion and a very fine crystal structure. The composition is biocompatible by topical and oral administration and may advantageously be used instead of petrolatum and mineral oil based surface treatment compositions.

Classifications:
International (IPC 8-9): A01N25/24 A23B7/16 A23D9/00 A23D9/007 A23D9/06 A23G3/34 A23L1/00 A23P20/10 A61K47/44 A61K8/31 A61K8/37 A61K8/92 A61K9/00 A61Q19/00 (Advanced/Invention); A23D9/00 (Advanced/Non-invention); A23B7/00 A23D9/00 A23D9/007 A23D9/06 A23G3/34 A23L1/00 A61K47/44 A61K8/30 A61K8/92 A61K9/00 A61Q19/00 (Core/Invention)
International (IPC 1-7): A01N25/24 A23D9/00 A23D9/007 A23D9/02 A23D9/04 A23P1/08 C09D191/06
CPC: A23P20/11 A61Q19/00 A23B7/16 A23D9/007 A23D9/06 A23G3/343 A23G3/346 A23G2200/08 A61K8/31 A61K8/375 A61K8/922 A61K8/925 A61K9/0014 A61K47/44
European: A23B7/16 A23D9/007 A23D9/06 A23G3/00K A23G3/00K+D8 A23G3/00M A23G3/00M+D8 A23G3/34C A23G3/34E A23L1/00P8B8 A61K47/44 A61K7/48C4K4 A61K7/48T A61K7/48T4 A61K8/31 A61K8/37C A61K8/92C A61K8/92F A61K9/00M3 A61Q19/00 K23G200/08
US: 426/307 426/601 426/99



Family:

Publication number	Publication date	Application number	Application date
AT153832 E	19970615	AT19930921829T	19930924
AU199351077 A1	19940426	AU19930051077	19930924
AU674349 B2	19961219	AU19930051077	19930924
BRPI9307109 A	19990330	BR1993PI07109	19930924
CA2145205 AA	19950321	CA19932145205	19930924
DE69311352 D1	19970710	DE19936011352	19930924
DE69311352 T2	19980102	DE19936011352T	19930924
DK0661924 T3	19970714	DK19930921829T	19930924
DK119092 A0	19920925	DK19920001190	19920925
EP0661924 A1	19950712	EP19930921829	19930924
EP0661924 B1	19970604	EP19930921829	19930924
ES2102680 T3	19970801	ES19930921829T	19930924
FI951413 A	19950324	FI19950001413	19950324
FI951413 A0	19950324	FI19950001413	19950324
JP8501454 T2	19960220	JP19940508596T	19930924
NO951120 A	19950518	NO19950001120	19950323
NO951120 A0	19950323	NO19950001120	19950323
NZ256387 A	19960625	NZ19930256387	19930924
RU95112483 A	19970620	RU19950112483	19950324
RU95112483 A1	19970620	RU19950112483	19950324
US5660865 A	19970826	US19950406942	19950508
WO9407373 A1	19940414	WO1993DK00308	19930924

Priority:
DK19920001190 19920925 WO1993DK00308 19930924

Probable Assignee: AARHUS OLIEFABRIK A S

Assignee(s): (std): AARHUS OLIEFABRIK AS ; PEDERSEN ARNE ; JOHANNSEN FRANK ; ORKHUS OLIFABRIK AS

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Inventor(s): (std): ARNE PEDERSEN ; FRANK JOKHANNSEN ; JOHANNSEN FRANK ; PEDERSEN ARNE

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Agent(s): GRIFFITH HACK; SWABEY OGILVY RENAULT

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT153832 E	19970615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT153832 E	19980115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT153832 E	19990615	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT153832 E	19990715	LSRV	-RZN	PATENT REVOKED	
AT153832 E	19990815	LSRV	-RZN	PATENT REVOKED	
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AU674349 B2	19961219	LSGT	+	granted / extensions (spc, cpc, pte)	
AU674349 B2	20130924	PEXP		Calculated Patent Term Expiry	
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CA2145205 AA	19950321	LSPB	+	published / reissued	
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DE69311352 D1	19980520	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE69311352 D1	19990701	LSRV	-8331	COMPLETE REVOCATION	
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FI951413 A	19990331	LSLE	-FD	APPLICATION LAPSED	
JP8501454 T2	19960220	LSPB	+	published / reissued	
NO951120 A	19950518	LSPB	+	published / reissued	
NZ256387 A	19960625	LSPB	+	published / reissued	
RU95112483 A	19970620	LSPB	+	published / reissued	
US5660865 A	19970826	LSGT	+	granted / extensions (spc, cpc, pte)	
US5660865 A	19950508	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AARHUS OLIEFABRIK A/S, DENMARK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PEDERSEN, ARNE; JOHANNSEN, FRANK; REEL/FRAME:007464/0468; SIGNING DATES FROM 19950425 TO 19950501
US5660865 A	19970813	LSGT	PAT1	Patented Case	
US5660865 A	19971209	LSRE	CC	CERTIFICATE OF CORRECTION	
US5660865 A	20010826	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5660865 A	20011030	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20010826
US5660865 A	20150508	PEXP		Calculated Patent Term Expiry	
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WO9407373 A1	19950309	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 256387 COUNTRY OF REF DOCUMENT : NZ
WO9407373 A1	19950321	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2145205 COUNTRY OF REF DOCUMENT : CA
WO9407373 A1	19950324	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 951413 COUNTRY OF REF DOCUMENT : FI
WO9407373 A1	19950508	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 08406942 COUNTRY OF REF DOCUMENT : US
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WO9407373 A1	19950727	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
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WO9407373 A1	19990407	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993921829 COUNTRY OF REF DOCUMENT : EP

83) Family number: 10787307 (US5681608A)

Title: NUTRIENT FATS HAVING IMPROVED DIGESTIBILITY

Abstract: Source: US5681608A [EN] PCT No. PCT/EP94/01041 Sec. 371 Date Oct. 12, 1995 Sec. 102(e) Date Oct. 12, 1995 PCT Filed Mar. 31, 1994 PCT Pub. No. WO94/24889 PCT Pub. Date Nov. 10, 1994The invention concerns triglyceride compositions useful as nutrient fats having improved digestibility. The compositions comprise: 1-95 weight percent of M2L; 5-65 weight percent of ML2, M=saturated fatty acid C2-C14; L=unsaturated fatty acid C18+, 35-99.5 percent of the total L being bonded at the 2-position.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D9/00 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/24 A23L1/30 A23L33/115 A23L33/12 A61K31/23 C11C3/02 (Advanced/Invention);
A23D7/00 A23G1/30 A23G3/00 A23G9/32 A23G9/44 A23G9/52 A23L1/24 (Advanced/Non-invention)
International (IPC 1-7): A23D7/00 A23D9/00 A23G1/00 A23G3/00 A23G9/02 A23L1/24 A23L1/30 A61K31/23 C11C3/02
CPC: A23L33/115 A23L33/12 C11C3/02 A21D2/165 A23D9/00 A23G3/346 A23G2200/08 A61K31/23
European: A21D2/16D A23D9/00 A23G1/00K A23G1/00K+D8 A23G3/00K A23G3/00K+D8 A23G3/34E A23L1/30C A23L1/30C2 A61K31/23 C11C3/02 K23G200/08
US: 426/606 426/607

Family:

Publication number	Publication date	Application number	Application date
AT154205 E	19970615	AT19940913115T	19940331
AU199465390 A1	19941121	AU19940065390	19940331
DE69403789 D1	19970717	DE19946003789	19940331
DE69403789 T2	19971204	DE19946003789T	19940331
EP0695128 A1	19960207	EP19940913115	19940331
EP0695128 B1	19970611	EP19940913115	19940331
JP8509513 T2	19961008	JP19940523803T	19940331
US5681608 A	19971028	US19950532631	19951012
WO9424889 A1	19941110	WO1994EP01041	19940331

Priority:

EP19930303171 19930423 EP19940913115 19940331 WO1994EP01041 19940331

Probable Assignee: LODERS CROKLAAN BV

Assignee(s): (std): CAIN FREDERICK WILLIAM ; LODERS CROKLAAN BV ; QUINLAN PAUL THOMAS

Assignee(s): LODERS CROKLAAN ZAANDIJKERWEG BV ; LODERS CROKLAAN B V ; LODERS CROKLAAN B V WORMERVEER NL

Inventor(s): (std): CAIN FREDERICK ; CAIN FREDERICK WILLIAM ; QUINLAN PAUL ; QUINLAN PAUL THOMAS

Inventor(s): QUINLAN PAUL THOMAS BEDFORD MK42 8TW GB ; CAIN FREDERICK WILLIAM NL 2271 VL VOORBURG NL ; FREDERICK WILLIAM CAIN ; PAUL THOMAS QUINLAN

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LI LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT154205 E	19970615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT154205 E	19971215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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DE69403789 T2	20140331	PEXP		Calculated Patent Term Expiry	
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EP0695128 A1	19960207	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19951018

EP0695128 A1	19960731	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19960619
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EP0695128 B1	20121010	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20121001
EP0695128 B1	20121128	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20120331
EP0695128 B1	20121204	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP0695128 B1	20121221	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20121130
EP0695128 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120331
EP0695128 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120402
EP0695128 B1	20130131	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69403789 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20121002
EP0695128 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120401
EP0695128 B1	20130329	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121001
EP0695128 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121002
EP0695128 B1	20140331	PEXP		Calculated Patent Term Expiry	
JP8509513 T2	19961008	LSPB	+	published / reissued	
US5681608 A	19971028	LSGT	+	granted / extensions (spc, cpc, pte)	
US5681608 A	19951026	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : LODERS CROKLAAN B.V., NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CAIN, FREDERICK WILLIAM; QUINLAN, PAUL THOMAS; REEL/FRAME:007684/0609; SIGNING DATES FROM 19950925 TO 19950929
US5681608 A	19970922	LSGT	PAT1	Patented Case	
US5681608 A	20010323	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5681608 A	20050329	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5681608 A	20090401	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5681608 A	20151012	PEXP		Calculated Patent Term Expiry	
WO9424889 A1	19941110	LSPB	+	published / reissued	
WO9424889 A1	19951012	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 08532631 COUNTRY OF REF DOCUMENT : US
WO9424889 A1	19951018	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994913115 COUNTRY OF REF DOCUMENT : EP
WO9424889 A1	19960125	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9424889 A1	19960207	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994913115 COUNTRY OF REF DOCUMENT : EP
WO9424889 A1	19961223	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : CA
WO9424889 A1	19970611	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994913115 COUNTRY OF REF DOCUMENT : EP

84) Family number: 11580985 (WO0040098A1)

Title: PECTIN COMPOSITION AS FAT REPLACER AND EMULSIFIER

Abstract: There is provided a fat replacer comprising a pectin composition, wherein the pectin composition comprises at least a population of pectin which is covalently cross linked.

Classifications:
International (IPC 8-9): A21D2/18 A23C9/137 A23D7/005 A23D7/015 A23G3/00 A23G3/34 A23G3/40 A23G3/42 A23G9/32 A23G9/34 A23G9/52 A23L1/0524 A23L1/24 A23L27/60 A23L29/231 (Advanced/Invention);
A21D2/00 A23C9/13 A23D7/005 A23D7/015 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/052 A23L1/24 (Core/Invention)
International (IPC 1-7): A23L1/0524
CPC: A23L27/60 A23L29/231 A23G3/42 A21D2/183 A21D2/185 A23C9/137 A23D7/0056 A23D7/015 A23G3/346 A23G3/40 A23G9/327 A23G9/34 A23G9/52 A23G2200/06 A23G2200/08 C12Y110/03001 C12Y110/03002
European: A21D2/18C A21D2/18D A23C9/137 A23D7/005S A23D7/015 A23G3/00 A23G3/00+D6 A23G3/00+D8 A23G3/00K A23G3/00K+D6 A23G3/00K+D8 A23G3/34E A23G3/40 A23G3/42 A23G9/02 A23G9/02+D6 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/34 A23G9/52 A23L1/0524 A23L1/24 C12Y110/03001 C12Y110/03002

Family:

Publication number	Publication date	Application number	Application date
AU200018873 A1	20000724	AU20000018873	20000106
AU200018873 A5	20000724	AU20000018873	20000106
GB9900227 A0	19990224	GB19990000227	19990106
WO0040098 A1	20000713	WO2000IB00051	20000106

Priority:

GB19990000227 19990106 WO2000IB00051 20000106

Probable Assignee: DANISCO

Assignee(s): (std): DANISCO ; JUUL ANNE GRETE ; NOERBOEGE LISE ; SOENDERGAARD KAREN MARIE

Assignee(s): DANISCO A S

Inventor(s): (std): NOERBOEGE LISE ; NORBOGE LISE ; SOENDERGAARD KAREN MARIE ; SONDERGAARD KAREN MARIE ; JUUL ANNE GRETE

Inventor(s): KAREN MARIE SONDERGAARD ; LISE NORBOGE ; ANNE GRETE JUUL

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200018873 A1	20000724	LSPB	+	published / reissued	
GB9900227 A0	20000405	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
WO0040098 A1	20000713	LSPB	+	published / reissued	
WO0040098 A1	20010510	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0040098 A1	20011031	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

85) Family number: 12434960 (US4793991A)

Title: HYPOALLERGENIC COSMETICS, LIP BALMS AND LIP STICKS

Abstract: Source: US4793991A [EN] Hypoallergenic lip balms, lip sticks, and other cosmetic preparations can be prepared from single plant source beeswaxes and vegetable oils.

Classifications:
International (IPC 8-9): A23D7/01 A23L1/30 A61K8/92 A61P17/00 A61Q1/04 A61Q1/06 A61Q19/00 A61Q19/08 (Advanced/Invention);
A23D7/005 A23L1/30 A61K8/92 A61P17/00 A61Q1/02 A61Q19/00 A61Q19/08 (Core/Invention)
International (IPC 1-7): A61K35/12 A61K35/64 A61K7/027
CPC: A23L33/115 A61Q19/00 A61Q19/007 A61Q19/08 A61Q1/04 A23D7/011 A23D7/013 A61K8/922 A61K8/927 A61K2800/72 A61Q1/06 A61Q19/001
European: A23D7/01N A23D7/01S A23L1/30C A61K7/48T4 A61K8/92C A61K8/92H A61Q1/04 A61Q1/06 A61Q19/00 A61Q19/08 K61K800/72 K61Q19/00C K61Q19/00P
US: 260/420 424/520 424/537 424/64 424/95 554/1

Family:

Publication number	Publication date	Application number	Application date
US4793991 A	19881227	US19860825657	19860131
US6099866 A	20000808	US19920918891	19920724

Priority:

US19860825657 19860131 US19870134861 19871218 US19920918891 19920724
US19910683343 19910410 US19880289036 19881223 US19890427987 19891027

Probable Assignee: SLIMAK KAREN M

Assignee(s): (std)**:** SLIMAK K M ; SLIMAK KAREN M

Inventor(s): (std)**:** SLIMAK K M ; SLIMAK KAREN M

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4793991 A	19881227	LSGT	+	granted / extensions (spc, cpc, pte)	
US4793991 A	19881020	LSGT	PAT1	Patented Case	
US4793991 A	19920625	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4793991 A	19961223	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4793991 A	20000627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6099866 A	20000808	LSGT	+	granted / extensions (spc, cpc, pte)	
US6099866 A	20000719	LSGT	PAT1	Patented Case	
US6099866 A	20040209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6099866 A	20080804	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6099866 A	20120808	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6099866 A	20170808	PEXP		Calculated Patent Term Expiry	

86) Family number: 14269282 (FR2756465A)

Title: USE OF PINE SEED OIL IN FOOD ADDITIVES, MEDICAMENTS AND IN TOPICAL COSMETIC COMPOSITIONS

Abstract: Use of pine seed oil which contains at least 15 weight percent of DELTA 5 olefinic fatty acids (optionally esterified) in food additives, medicaments and in topical cosmetic compositions (claimed), is new.
Classifications:
International (IPC 8-9): A23L1/30 A61K31/20 A61K31/201 A61K31/202 A61K8/36 A61K8/37 A61K8/92 A61Q19/00 A61Q19/08 A61Q5/00 (Advanced/Invention);
A23L1/30 A61K31/185 A61K8/30 A61K8/92 A61Q19/00 A61Q19/08 A61Q5/00 (Core/Invention)
International (IPC 1-7): A23L1/30 A61K31/20 A61K7/06 A61K7/48
CPC: A61K8/361 A23L33/115 A61K8/375 A61K8/922 A61K31/20 A61K31/201 A61K31/202 A61Q5/00 A61Q19/00 A61Q19/08
European: A23L1/30C A61K31/20 A61K31/201 A61K31/202 A61K8/36 A61K8/36C A61K8/37C A61K8/92C A61Q19/00 A61Q19/08 A61Q5/00

Family:

Publication number	Publication date	Application number	Application date
FR2756465 A1	19980605	FR19960014794	19961203
FR2756465 B1	19990219	FR19960014794	19961203

Priority:
FR19960014794 19961203

Probable Assignee:	D A NOSTE
Assignee(s): (std)**:**	D A NOSTE
Inventor(s): (std)**:**	BERGER JEAN JACQUES
Inventor(s):	JEAN JACQUES BERGER
Agent(s):	CABINET REGIMBEAU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2756465 A1	19980605	LSPB	+	published / reissued	
FR2756465 B1	19990219	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2756465 B1	20130719	LSLI	CL	CONCESSION TO GRANT LICENCES	PARTYTYPE : LICENSEE LICENSEE : OCEOPIN, FR EFFECTIVE DATE : 20130618
FR2756465 B1	20160122	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 20
FR2756465 B1	20161203	PEXP		Calculated Patent Term Expiry	

87) Family number: 20702317 (US6149961A)

Title: FAT SUBSTITUTE FORMULATION AND METHODS FOR UTILIZING SAME

Abstract: Source: US6149961A [EN] A fat substitute is disclosed comprising a Shea nut extract blended with a diluent fat to produce a plasticized Shea nut extract. The plasticized Shea nut extract can be readily substitute for a part or all of the fat content of a prepared food product. The plasticized Shea nut extract maintains the taste and manufacturability of the full fat prepared food product. In addition, the plasticized Shea nut extract reduces the fat content of the prepared food product because the components of Shea nut extract are not fats. In a preferred embodiment the Shea nut extract is blended with sunflower oil to produce the plasticized Shea nut extract. The plasticized Shea nut extract can be utilized in a wide range of fat containing prepared food products including cookies, brownies, popcorn, and ice cream.

Classifications:
International (IPC 8-9): A21D13/08 A21D2/14 A21D2/16 A23D7/005 A23D9/00 A23D9/007 A23G3/00 A23G3/40 A23G3/48 A23G9/32 A23G9/42 A23G9/52 A23L1/18 A23L1/30 (Advanced/Invention);
A23G3/34 (Core/Invention)
International (IPC 1-7): A23D9/00 A23D9/007
CPC: Y10S426/804 A23G3/48 A21D2/14 A21D2/16 A23D7/0056 A23D9/007 A23G3/40 A23G9/327 A23G9/42 A23G9/52 A23G2200/08 A23G2200/14 A23L7/183 A23L33/105 A23L33/11 A21D13/80
European: A21D13/08 A21D2/14 A21D2/16 A23D7/005S A23D9/007 A23G3/00 A23G3/00+D14 A23G3/00+D8 A23G3/40 A23G3/48 A23G9/02 A23G9/02+D14 A23G9/02+D8 A23G9/02K A23G9/02K+D14 A23G9/02K+D8 A23G9/32G A23G9/42 A23G9/52 A23L1/18C6 A23L1/30B A23L1/30B2 K23G200/08 K23G200/14
US: 426/553 426/565 426/601 426/611 426/804

Family:

Publication number	Publication date	Application number	Application date
AU199938715 A1	20000613	AU19990038715	19990429
AU199938715 A5	20000613	AU19990038715	19990429
AU209938715 A1	20000613	AU19990038715	19990429
CA2351438 AA	20010517	CA19992351438	19990429
EP1130975 A1	20010912	EP19990921525	19990429
EP1130975 A4	20050202	EP19990921525	19990429
US6149961 A	20001121	US19980197054	19981120
WO0030463 A1	20000602	WO1999US09287	19990429

Priority:

US19970066326P 19971121 US19980197054 19981120 WO1999US09287 19990429

Probable Assignee: WK KELLOGG INST

Assignee(s): (std): KELLOG CO ; W K KELLOGG INST

Assignee(s): WK KELLOGG INST ; W K KELLOGG INSTITUTE ; GUTHRIE BRIAN ; KELLOGG CO ; KELLOGG COMPANY ; KEPPLINGER JOHN

Inventor(s): (std): GUTHRIE BRIAN ; KEPPLINGER JOHN

Inventor(s): BRIAN GUTHRIE ; JOHN KEPPLINGER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU199938715 A1	20000613	LSPB	+	published / reissued	
AU199938715 A1	20020502	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	
AU209938715 A1	20000613	LSPB	+	published / reissued	
CA2351438 AA	20010517	LSPB	+	published / reissued	
CA2351438 AA	20040227	LSES	+EEER	EXAMINATION REQUEST	
CA2351438 AA	20070430	LSLE	-FZDE	DEAD	
EP1130975 A1	20010912	LSPB	+	published / reissued	
EP1130975 A1	20010912	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010503
EP1130975 A4	20050202	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20041216
EP1130975 A4	20050202	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7A 23D 9/007 A

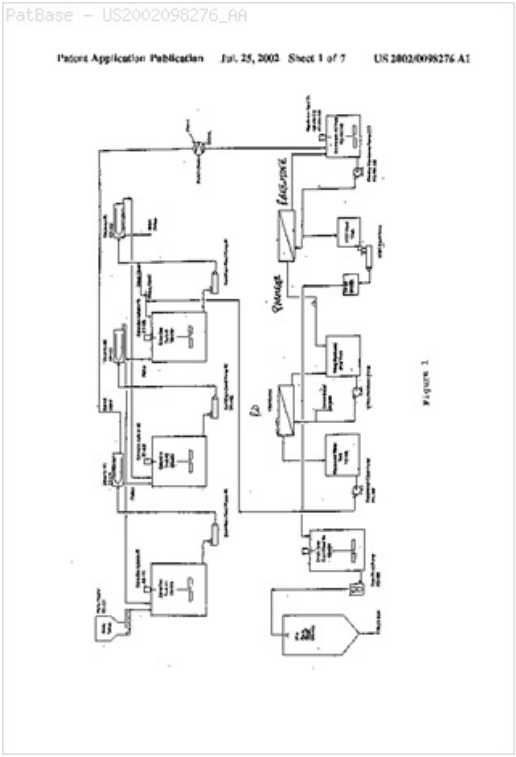
EP1130975 A4	20050511	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20050329
EP1130975 A4	20060419	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20051011
US6149961 A	20001121	LSGT	+	granted / extensions (spc, cpc, pte)	
US6149961 A	19981209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : W.K. KELLOGG INSTITUTE, MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KEPPLINGER, JOHN; GUTHRIE, BRIAN; REEL/FRAME:009642/0785 EFFECTIVE DATE : 19981130
US6149961 A	20040210	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6149961 A	20080429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6149961 A	20121121	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6149961 A	20121217	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6149961 A	20130108	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20121121
US6149961 A	20181120	PEXP		Calculated Patent Term Expiry	
WO0030463 A1	20000602	LSPB	+	published / reissued	
WO0030463 A1	20010503	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 38715/99 COUNTRY OF REF DOCUMENT : AU
WO0030463 A1	20010503	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999921525 COUNTRY OF REF DOCUMENT : EP
WO0030463 A1	20010508	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 511535 COUNTRY OF REF DOCUMENT : NZ
WO0030463 A1	20010517	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2351438 COUNTRY OF REF DOCUMENT : CA
WO0030463 A1	20010517	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2351438 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0030463 A1	20010912	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999921525 COUNTRY OF REF DOCUMENT : EP
WO0030463 A1	20011011	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0030463 A1	20051011	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999921525 COUNTRY OF REF DOCUMENT : EP

88) Family number: 28251116 (US2002098276A)

Title: MODIFIED OILSEED MATERIAL

Abstract: Source: US2002098276A [EN] A modified oilseed material formed from oilseed-based material is described. The modified oilseed material can be utilized in a variety of nutritional applications, including the preparation of protein supplemented food products such as beverages, processed meats, frozen desserts, confectionery products, dairy-type products, and cereal grain products. The modified oilseed material typically includes at least 85 weight percent protein (dry solids basis), at least about 40 percent of the modified oilseed material has an apparent molecular weight of greater than 300 kDa, and/or a MW50 of at least about 200 kDa.

Classifications:
International (IPC 8-9): A23C19/093 A23C9/123 A23C9/13 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G3/40 A23G3/54 A23G9/00 A23G9/32 A23G9/48 A23G9/52 A23J1/00 A23J1/14 A23J3/14 A23J3/16 A23J3/30 A23L1/164 A23L1/20 A23L1/305 A23L1/314 A23L1/318 A23L1/36 A23L1/39 A23L2/66 (Advanced/Invention);
A23C19/00 A23C9/12 A23C9/13 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/00 A23G9/32 A23G9/44 A23G9/52 A23J1/00 A23J3/00 A23L1/164 A23L1/20 A23L1/305 A23L1/314 A23L1/36 A23L1/39 A23L2/52 (Core/Invention)
International (IPC 1-7): A23C9/12 A23G1/00 A23G9/00 A23J A23J0/0 A23J0/00 A23J1/14 A23J3/14 A23J3/16 A23L1/20 A23L1/28 A23L1/305 A23L1/31 A23L1/314 A23L1/318 A23L1/32 A23L1/36 A23L1/39 A23L2/00 A23L2/66 C12C1/00
CPC: Y10S426/802 A23L23/00 A23L33/185 A23L7/126 A23L11/07 A23L13/426 A23G9/322 A23G1/305 A23G3/343 A23G3/346 A23G3/40 A23G3/54 A23G9/327 A23G9/48 A23G9/52 A23G2200/00 A23G2200/08 A23G2200/10 A23L2/66 A23V2002/00 A23V2300/34 A23J1/14 A23C9/1234 A23C9/1307 A23C9/1315 A23C19/093 A23J3/16
European: A23C19/093 A23C9/123D A23C9/13B A23C9/13D A23G1/00M A23G1/00M+D10 A23G1/30C A23G3/00 A23G3/00+D8 A23G3/00+H6 A23G3/00K A23G3/00K+D A23G3/00K+D8 A23G3/00M A23G3/00M+D10 A23G3/00M+D8 A23G3/34C A23G3/34E A23G3/40 A23G3/54 A23G9/02 A23G9/02+D8 A23G9/02+H6 A23G9/02K A23G9/02K+D A23G9/02K+D8 A23G9/02M A23G9/02M+D8 A23G9/32C A23G9/32G A23G9/48 A23G9/52 A23J1/14 A23J3/16 A23L1/164C A23L1/20D4 A23L1/305C A23L1/314B4 A23L1/39 A23L2/66 K23G200/00 K23G200/08 K23G200/10 K23V2/00 K23V300/34
US: 426/425 426/431 426/484 426/484.4 426/549 426/565 426/574 426/580 426/583 426/589 426/590 426/598 426/614 426/614P 426/629 426/629.9 426/629P 426/632 426/634 426/643 426/644 426/646 426/655 426/656 426/658 426/66 426/660 426/802 530/377 530/378



Family:

Publication number	Publication date	Application number	Application date
AR034855 AA	20040324	AR2001P105420	20011120
AU2001297915 AA	20021223	AU20010297915	20011120
AU2001297915 BB	20060615	AU20010297915	20011120
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US2002102346 AA	20020801	US20010883849	20010618
US2002106437 AA	20020808	US20010883496	20010618
US2002106440 AA	20020808	US20010883558	20010618
US2002114877 AA	20020822	US20010883495	20010618
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US2004131747 AA	20040708	US20030432094	20031030
US2004219281 AA	20041104	US20040764275	20040123
US6599556 BB	20030729	US20010883495	20010618
US6630195 BA	20031007	US20000717923	20001121
US6716469 BB	20040406	US20010883849	20010618
US6720020 BB	20040413	US20010883496	20010618
US6777017 BB	20040817	US20010989743	20011120
US6830773 BB	20041214	US20010883558	20010618
US6841184 BB	20050111	US20010883552	20010618
US7429399 BB	20080930	US20010432094	20011120
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Priority:

US20000717923 20001121
US20030432094 20031030
US20010883558 20010618
US20040764275 20040123
US20010432094 20011120
US20010989743 20011120
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US20010883495 20010618
US20010883496 20010618
US20010883552 20010618

Probable Assignee: CARGILL INC

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR034855 AA	20040324	LSPB	+	published / reissued	
AR034855 AA	20080812	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
AU2001297915 AA	20021223	LSPB	+	published / reissued	
AU2001297915 BB	20060615	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2001297915 BB	20061012	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2001297915 BB	20100617	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
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BRPI0115557 A	20110628	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 9A ANUI DADE.
BRPI0115557 A	20111116	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : REFERENTE AO DESPACHO 8.6 PUBLICADO NA RPI 2112 DE 28/06/2011.
CA2429711 AA	20030521	LSPB	+	published / reissued	
CA2429711 AA	20061016	LSES	+EEER	EXAMINATION	

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CA2429711 AA	20100923	LSLE	-FZDE	DEAD	
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CN1486143 A	20081126	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN1486143 A	20110708	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1064259 COUNTRY OF REF DOCUMENT : HK
EP1343386 A2	20030917	LSPB	+	published / reissued	
EP1343386 A2	20030917	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030620
EP1343386 A2	20040421	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040308
EP1343386 A2	20061004	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040308
EP1343386 A2	20090408	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SOLAE, LLC
EP1343386 A2	20090520	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SOLAE, LLC
EP1343386 A2	20100113	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20090721
HK1064259 A3	20050128	LSPB	+	published / reissued	
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JP2004521642 T2	20040722	LSPB	+	published / reissued	
JP2004521642 T2	20041101	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20041029
JP2004521642 T2	20041101	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20041029
JP2004521642 T2	20071022	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20071019
JP2004521642 T2	20080418	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080417
JP2004521642 T2	20090630	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090629
JP2004521642 T2	20091126	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20091125
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RU2312513 C2	20101227	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20071121
RU2312513 C2	20211120	PEXP		Calculated Patent Term Expiry	
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US2002098276 AA	20020725	LSPB	+	published / reissued	
US2002098276 AA	20170206	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US2002102346 AA	20020801	LSPB	+	published / reissued	
US2002102346 AA	20011001	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:STARK, ANN M.; MURALIDHARA, HARAPANAHALLI S.; PORTER, MICHAEL A.; AND OTHERS; REEL/FRAME:012207/0665; SIGNING DATES FROM 20010813 TO 20010906
US2002106437 AA	20020808	LSPB	+	published / reissued	
US2002106437 AA	20011001	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KARLESKIND, DANIELE; STARK, ANN M.; MURALIDHARA, HARAPANAHALLI S.; AND OTHERS; REEL/FRAME:012210/0636; SIGNING DATES FROM 20010813 TO 20010906
US2002106440 AA	20020808	LSPB	+	published / reissued	
US2002114877 AA	20020822	LSPB	+	published / reissued	
US2002114877 AA	20011001	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:STARK, ANN M.; JOHNSON, SCOTT D.; MURALIDHARA, HARAPANAHALLI S.; AND OTHERS; REEL/FRAME:012210/0529; SIGNING DATES FROM 20010726 TO 20010906
US2003091717 AA	20030515	LSPB	+	published / reissued	
US2003091717 AA	20020624	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PORTER, MICHAEL A.; MURALIDHARA, HARAPANAHALLI S.; PURTLE, IAN; AND OTHERS; REEL/FRAME:013026/0135; SIGNING DATES FROM 20020314 TO 20020322
US2004131747 AA	20040708	LSPB	+	published / reissued	
US2004131747 AA	20031103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INCORPORATED, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PORTER, MICHAEL A.; MURALLHARA, HARAPANAHALLI S.; PURTLE, IAN; AND OTHERS; REEL/FRAME:014760/0123; SIGNING DATES FROM 20030702 TO 20030804

US2004219281 AA	20041104	LSPB	+	published / reissued	
US2004219281 AA	20040901	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INCORPORATED, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PORTER, MICHAEL A.; MURALIDHARA, HAPAPANAHALLI S.; PURTLE, IAN C.; AND OTHERS; REEL/FRAME:015099/0570; SIGNING DATES FROM 20040608 TO 20040622
US2004219281 AA	20070220	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US6599556 BB	20030729	LSGT	+	granted / extensions (spc, cpc, pte)	
US6599556 BB	20030710	LSGT	PAT1	Patented Case	
US6599556 BB	20070129	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6599556 BB	20110103	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6599556 BB	20150304	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6599556 BB	20210725	PEXP		Calculated Patent Term Expiry (PTA 37 days)	
US6630195 BA	20031007	LSGT	+	granted / extensions (spc, cpc, pte)	
US6630195 BA	20010409	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARGILL, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MURALIDHARA, HARAPANAHALLI S.; PORTER, MICHAEL A.; SATYAVOLU, JAGANNADH V.; AND OTHERS; REEL/FRAME:011691/0545; SIGNING DATES FROM 20010122 TO 20010202
US6630195 BA	20030918	LSGT	PAT1	Patented Case	
US6630195 BA	20040706	LSRE	CC	CERTIFICATE OF CORRECTION	
US6630195 BA	20050125	LSRE	CC	CERTIFICATE OF CORRECTION	
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US6716469 BB	20040406	LSGT	+	granted / extensions (spc, cpc, pte)	
US6716469 BB	20040318	LSGT	PAT1	Patented Case	
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US6716469 BB	20150923	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
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US6720020 BB	20040413	LSGT	+	granted / extensions (spc, cpc, pte)	
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US6777017 BB	20160912	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6777017 BB	20161004	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160817
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US6830773 BB	20041125	LSGT	PAT1	Patented Case	
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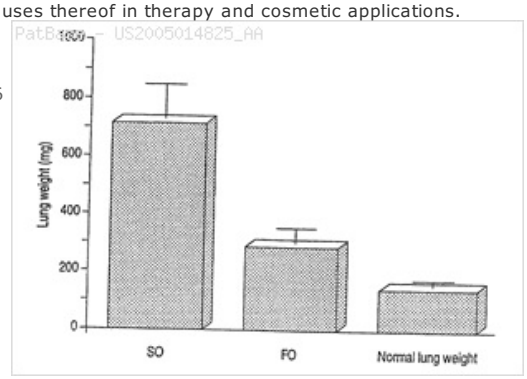
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US6841184 BB	20041223	LSGT	PAT1	Patented Case	
US6841184 BB	20080627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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US6841184 BB	20221023	PEXP		Calculated Patent Term Expiry (PTA 492 days and a terminal disclaimer has been filed)	
US7429399 BB	20080930	LSGT	+	granted / extensions (spc, cpc, pte)	
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US7429399 BB	20120301	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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US7429399 BB	20161031	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7429399 BB	20161031	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7429399 BB	20161122	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160930
US7429399 BB	20230527	PEXP		Calculated Patent Term Expiry (PTA 553 days and a terminal disclaimer has been filed)	
WO02100186 A2	20021219	LSPB	+	published / reissued	
WO02100186 A2	20030520	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 156017 COUNTRY OF REF DOCUMENT : IL

WO02100186 A2	20030521	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2429711 COUNTRY OF REF DOCUMENT : CA
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WO02100186 A3	20030620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200304796 COUNTRY OF REF DOCUMENT : ZA
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WO02100186 A3	20030620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003/04796 COUNTRY OF REF DOCUMENT : ZA
WO02100186 A3	20030721	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 018221556 COUNTRY OF REF DOCUMENT : CN
WO02100186 A3	20030917	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001274205 COUNTRY OF REF DOCUMENT : EP
WO02100186 A3	20031002	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02100186 A3	20031030	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10432094 COUNTRY OF REF DOCUMENT : US
ZA200304796 A	20040429	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200304796 A	20230619	PEXP		Calculated Patent Term Expiry	

89) Family number: 28671600 (US2005014825A)

Title: PREPARATION AND USE OF SOLIDIFIED OILS

Abstract: Source: US2005014825A [EN] A method of solidifying liquid oils is disclosed. The method is effected by (a) mixing at least one liquid oil and at least one solid fat, thereby forming a mixture of the at least one liquid oil and the at least one solid fat; and (b) transforming the mixture into a homogeneous consistency. Further disclosed are compositions of matter having a semi-solid texture including at least one liquid oil and at least one solid fat and uses thereof in therapy and cosmetic applications.



Classifications:
International (IPC 8-9): A23D7/00 A23D7/01 A23D9/00 A23D9/007 A23D9/02 A23L1/30 A23L1/308 A61K31/202 A61K31/355 A61K47/26 A61K47/44 A61K8/60 A61K8/67 A61K8/92 A61K9/00 A61K9/06 A61P3/06 A61P3/10 A61P35/00 A61P5/48 A61Q19/00 C11B15/00 C11B5/00 C11B9/00 (Advanced/Invention);
A23D9/007 A61K47/44 A61K9/06 A61P35/00 C11B15/00 C11B5/00 C11B9/00 (Advanced/Non-invention);
A23D9/02 A61K47/44 A61K8/30 A61K8/92 A61K9/00 A61Q19/00 (Core/Invention);
A23D (Subclass/Invention)
International (IPC 1-7): A23D A23D7/00 A23D9/00 A23D9/007 A23D9/013 A23D9/02 A23L1/30 A23L1/302 A61K31/20 A61K31/202 A61K31/225 A61K31/355 A61K47/00 A61K47/26 A61K47/44 A61K7/00 A61K7/48 A61K9/00 A61K9/06 A61P3/06 A61P3/10 A61P35/00 A61P5/48 C08F2/00 C11B15/00 C11B5/00 C11B9/00
CPC: A23L33/115 A23L33/26 A61Q19/00 A23D7/013 A61K8/60 A61K8/678 A61K8/922 A61K8/925 A61K8/927 A61K9/0014 A61K47/26
European: A23D7/01S A23L1/308P A23L1/30C A61K47/26 A61K8/60 A61K8/67L A61K8/92C A61K8/92F A61K8/92H A61K9/00M3 A61Q19/00
US: 424/439 426/608 514/547 514/560

Family:

Publication number	Publication date	Application number	Application date
AU199964854 A1	20000515	AU19990064854	19991025
AU199964854 A5	20000515	AU19990064854	19991025
BRPI9914800 A	20011106	BR1999PI14800	19991025
CA2346820 AA	20010410	CA19992346820	19991025
CN1636021 A	20050706	CN19998012576	19991025
EP1123008 A2	20010816	EP19990952770	19991025
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IL126741 A0	19990817	IL19980126741	19981025
IL142754 A0	20020310	IL19990142754	19991025
IL142754 A1	20040512	IL19990142754	19991025
JP2002537411 T2	20021105	JP20000577972T	19991025
MXPA01004090 A1	20020408	MX2001PA04090	19991025
NO20012011 A	20010529	NO20010002011	20010424
NO20012011 A0	20010424	NO20010002011	20010424
US2005014825 AA	20050120	US20040913428	20040809
US6773715 BA	20040810	US20010830357	20010717
WO0024360 A2	20000504	WO1999IL00564	19991025
WO0024360 A3	20000810	WO1999IL00564	19991025
WO0024360 C1	20010118	WO1999IL00564	19991025

Priority:

IL19980126741 19981025 IL19990142754 19991025 US20010830357 20010717
WO1999IL00564 19991025 US20040913428 20040809

Probable Assignee: YAMEGA LTD

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Assignee(s): DANIEL YAM

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Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199964854 A1	20000515	LSPB	+	published / reissued	
AU199964854 A1	20040923	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED	

BRPI9914800 A	20011106	LSPB	+	published / reissued	
BRPI9914800 A	20090428	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE AO NAO RECOLHIMENTO DA 7A, 8A E 9A ANUIDADE(S).
BRPI9914800 A	20100615	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : REFERENTE AO DESPACHO 8.6 DA RPI 1999 DE 28/04/2009.
CA2346820 AA	20010410	LSPB	+	published / reissued	
CA2346820 AA	20041012	LSES	+EEER	EXAMINATION REQUEST	
CA2346820 AA	20061025	LSLE	-FZDE	DEAD	
CN1636021 A	20050706	LSPB	+	published / reissued	
CN1636021 A	20050706	LSPB	+C06	PUBLICATION	
CN1636021 A	20060920	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP1123008 A2	20010816	LSPB	+	published / reissued	
EP1123008 A2	20010816	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010522
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JP2002537411 T2	20021105	LSPB	+	published / reissued	
MXPA01004090 A1	20020408	LSPB	+	published / reissued	
NO20012011 A	20010529	LSPB	+	published / reissued	
NO20012011 A	20030630	LSRV	-FC2A	WITHDRAWAL, REJECTION OR DISMISSAL OF LAID OPEN PATENT APPLICATION	
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US2005014825 AA	20080915	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US6773715 BA	20040810	LSGT	+	granted / extensions (spc, cpc, pte)	
US6773715 BA	20020204	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : YAMEGA LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:YAM, DANIEL; REEL/FRAME:012547/0943 EFFECTIVE DATE : 20010430
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US6773715 BA	20120910	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6773715 BA	20121002	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120810
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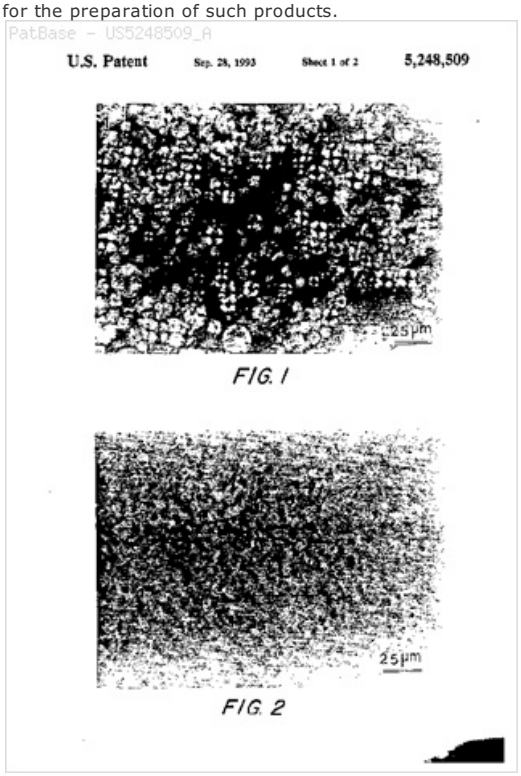
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WO0024360 C1	20010816	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999952770 COUNTRY OF REF DOCUMENT : EP
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WO0024360 C1	20051025	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999952770 COUNTRY OF REF DOCUMENT : EP

90) Family number: 29425277 (US5064677A)

Title: EDIBLE FAT-CONTAINING PRODUCT AND PROCESS FOR PREPARING SAME

Abstract: Source: US5064677A [EN] The present invention pertains to edible fat-containing products, in particular spreads, comprising at least 5 percent of hardstock indigestible polyol fatty acid polyesters, the fat-phase being characterized by an, at least, two-peaked DSC-curve. The invention further pertains to a process for the preparation of such products.

Classifications:
International (IPC 8-9): A23C19/08 A23D7/00 A23D7/01 A23D7/015 A23D7/02 A23D9/00 A23D9/013 A23D9/02 A23G1/00 A23G1/30 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/24 A23L1/30 A23L1/307 A23L1/308 (Advanced/Invention);
A23D7/00 A23G1/00 A23G1/30 A23G9/32 A23G9/44 A23G9/52 A23L1/30 A23L1/307 (Advanced/Non-invention);
A23C19/00 A23D7/00 A23D7/005 A23D7/015 A23D7/02 A23D9/00 A23D9/007 A23D9/02 A23G1/00 A23G1/30 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/24 A23L1/30 A23L1/307 A23L1/308 (Core/Invention);
A23D (Subclass/Invention)
International (IPC 1-7): A23C19/08 A23D3/00 A23D3/02 A23D5/00 A23D5/02 A23D7/00 A23D7/02 A23D9/00 A23D9/02 A23G1/00 A23G9/02 A23L1/24 A23L1/30 A23L1/302 A23L1/303 A23L1/307 A23L1/308
CPC: Y10S426/804 A23L27/60 A23L33/26 A23D9/013 A23G3/346 A23D7/011 A23D7/013 A23D7/015 A23G2200/04 A23G2200/08
European: A23D7/015 A23D7/01N A23D7/01S A23D9/013 A23G3/00K A23G3/00K+D4 A23G3/00K+D8 A23G3/34E A23L1/24 A23L1/308P K23G200/04 K23G200/08
US: 426/601 426/602 426/606 426/611 426/72 426/73 426/804



Family:

Publication number	Publication date	Application number	Application date
AT63041 E	19910515	AT19880201753T	19880816
AT69140 E	19911115	AT19880201751T	19880816
AT94025 E	19930915	AT19890200363T	19890215
AU198821005 A1	19890223	AU19880021005	19880816
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DE68908984 D1	19931014	DE19896008984	19890215
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EP0304130 B1	19911106	EP19880201751	19880816
EP0304131 A1	19890222	EP19880201753	19880816
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ZA8806173 A	19900425	ZA19880006173	19880819
ZA8901215 A	19901031	ZA19890001215	19890216

Priority:

EP19880201751 19880816
EP19880201753 19880816
EP19890200363 19890215
GB19880007206 19880325
GB19880015047 19880624
NL19870001952 19870819
NL19878701952 19870819
US19880231118 19880811
US19890313113 19890221
US19890459012 19891229

Probable Assignee: VAN DEN BERGH FOODS CO DIVISION OF CONOPCO INC

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Assignee(s): VAN DEN BERGH FOODS CO DIVISION OF CONOPCO INC ; VAN DEN BERGH FOODS CO ; UNILEVER N V ; UNILEVER N V ROTTERDAM NL ; CONOPCO INC

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Agent(s): GRIFFITH HACK

Designated states: AT BE CH DE ES FR GB GR IT LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT63041 E	19910515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT63041 E	19911115	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT63041 E	19960515	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT63041 E	19991115	LSRV	-RZN	PATENT REVOKED	
AT63041 E	20080816	PEXP		Calculated Patent Term Expiry	
AT69140 E	19911115	LSGT	+	granted / extensions (spc, cpc, pte)	
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AT69140 E	19941215	LSRV	-RZN	PATENT REVOKED	
AT69140 E	20080816	PEXP		Calculated Patent Term Expiry	
AT94025 E	19930915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT94025 E	19940315	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT94025 E	20090215	PEXP		Calculated Patent Term Expiry	
AU198821005 A1	19890223	LSPB	+	published / reissued	
AU198821006 A1	19890223	LSPB	+	published / reissued	
AU198930074 A1	19900215	LSPB	+	published / reissued	
AU607531 B2	19910307	LSGT	+	granted / extensions (spc, cpc, pte)	
AU607531 B2	20080816	PEXP		Calculated Patent Term Expiry	
DE3862629 D1	19920430	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE3862629 D1	19991028	LSRV	-8331	COMPLETE REVOCATION	
DE3866062 D1	19921029	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE3866062 D1	19941201	LSRV	-8331	COMPLETE REVOCATION	
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DE68908984 D1	19960215	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE68908984 T2	19940127	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0304130 A1	19890222	LSPB	+	published / reissued	
EP0304130 A1	19890426	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890222
EP0304130 A1	19900905	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19900724
EP0304130 B1	19911106	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0304130 B1	19920923	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : THE PROCTER & GAMBLE COMPANY EFFECTIVE DATE : 19920804
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EP0304130 B1	19921202	LSAS	RAP4	CORRECTION OF NAME OR ADDRESS OF PATENT OWNER	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP0304130 B1	19921202	LSAS	RAP4	CORRECTION OF NAME OR ADDRESS OF PATENT OWNER	PARTYTYPE : OWNER OWNER : UNILEVER PLC
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EP0304131 A1	19900926	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19900809
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EP0304131 B1	19921202	LSAS	RAP4	CORRECTION OF NAME OR ADDRESS OF PATENT OWNER	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
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EP0304131 B1	19941230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19941230
EP0304131 B1	19941230	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : MM2A TEXT : 3002183
EP0304131 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	REF COUNTRY CODE : EP TEXT : 88201753.6
EP0304131 B1	19950816	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19950816

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EP0304131 B1	19950817	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19950817
EP0304131 B1	19950831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19950831
EP0304131 B1	19950831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19950831
EP0304131 B1	19950831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19950831
EP0304131 B1	19960229	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : UNILEVER N.V. EFFECTIVE DATE : 19950831
EP0304131 B1	19960415	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0304131 B1	19960513	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP TEXT : 88201753.6
EP0304131 B1	19980727	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19980727 YEAR OF FEE PAYMENT : 11
EP0304131 B1	19980817	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 19980817 YEAR OF FEE PAYMENT : 11
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EP0304131 B1	19990730	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19990730 YEAR OF FEE PAYMENT : 12
EP0304131 B1	19990922	LSRV	-27W	PATENT REVOKED	EFFECTIVE DATE : 19990728
EP0304131 B1	19990922	LSRV	-GBPR	GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING THE UK AS CONTRACTING STATE	REF COUNTRY CODE : EP TEXT : 990728
EP0304131 B1	19991201	LSOP	NLR2	NL: DECISION OF OPPOSITION	REF COUNTRY CODE : EP
EP0304131 B1	20080829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19910831
EP0304131 B1	20080816	PEXP		Calculated Patent Term Expiry	
EP0354600 A2	19900214	LSPB	+	published / reissued	
EP0354600 A3	19911127	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19910925
EP0354600 A3	19921202	LSAS	RAP3	CORRECTION OF THE ADDRESS OR NAME OF APPLICANT	PARTYTYPE : OWNER OWNER : UNILEVER N.V.
EP0354600 A3	19921202	LSAS	RAP3	CORRECTION OF THE ADDRESS OR NAME OF APPLICANT	PARTYTYPE : OWNER OWNER : UNILEVER PLC

EP0354600 A3	19921223	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19921110
EP0354600 B1	19930908	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0354600 B1	19930908	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19930908
EP0354600 B1	19930908	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH LAPSED DATE : 19930908
EP0354600 B1	19930908	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI LAPSED DATE : 19930908
EP0354600 B1	19930908	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY LAPSED DATE : 19930908
EP0354600 B1	19930908	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 19930908
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EP0354600 B1	19940118	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 19940118 YEAR OF FEE PAYMENT : 6
EP0354600 B1	19940119	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19940119 YEAR OF FEE PAYMENT : 6
EP0354600 B1	19940127	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 19940127 YEAR OF FEE PAYMENT : 6
EP0354600 B1	19940127	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19940127 YEAR OF FEE PAYMENT : 6
EP0354600 B1	19940228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 19940228 YEAR OF FEE PAYMENT : 6
EP0354600 B1	19940831	LSGT	+26N	NO OPPOSITION FILED	
EP0354600 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	REF COUNTRY CODE : EP TEXT : 89200363.3
EP0354600 B1	19950215	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB LAPSED DATE : 19950215

EP0354600 B1	19950216	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19950216
EP0354600 B1	19950228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19950228
EP0354600 B1	19950831	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : UNILEVER N.V. EFFECTIVE DATE : 19950228
EP0354600 B1	19950901	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19950901
EP0354600 B1	19951011	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19950215
EP0354600 B1	19951031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR LAPSED DATE : 19951031
EP0354600 B1	19951101	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19950901
EP0354600 B1	19951101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE LAPSED DATE : 19951101
EP0354600 B1	19951106	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP TEXT : 89200363.3
EP0354600 B1	19951229	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
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ES2022597 B3	19911201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2022597 B3	20080816	PEXP		Calculated Patent Term Expiry	
ES2026642 T3	19920501	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2026642 T3	19920501	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 304130 COUNTRY OF REF DOCUMENT : ES
ES2026642 T3	20080816	PEXP		Calculated Patent Term Expiry	
GR3002183 T3	19921230	LSGT	+	granted / extensions (spc, cpc, pte)	
GR3002183 T3	20110625	PEXP		Calculated Patent Term Expiry	
GR3003345 T3	19930217	LSGT	+	granted / extensions (spc, cpc, pte)	
GR3003345 T3	20111213	PEXP		Calculated Patent Term Expiry	
JP1071441 A2	19890316	LSPB	+	published / reissued	
JP1071442 A2	19890316	LSPB	+	published / reissued	
JP2200145 A2	19900808	LSPB	+	published / reissued	
JP64071441 A2	19890316	LSPB	+	published / reissued	
JP64071442 A2	19890316	LSPB	+	published / reissued	
US5064677 A	19911112	LSGT	+	granted / extensions	

				(spc, cpc, pte)	
US5064677 A	19911031	LSGT	PAT1	Patented Case	
US5064677 A	19941206	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5064677 A	19981207	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5064677 A	20030509	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5064677 A	20101227	PEXP		Calculated Patent Term Expiry	
US5248509 A	19930928	LSGT	+	granted / extensions (spc, cpc, pte)	
US5248509 A	19901120	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CONOPCO, INC. OLDPARTY : CHANGE OF NAME; ASSIGNOR:LEVER BROTHERS COMPANY; REEL/FRAME:005500/0581 EFFECTIVE DATE : 19890902
US5248509 A	19901120	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CONOPCO, INC. OLDPARTY : CHANGE OF NAME; ASSIGNORS:CONOPCO, INC. (CHANGE INTO); CHESEBROUGH-POND'S INC.; REEL/FRAME:005500/0602 EFFECTIVE DATE : 19891231
US5248509 A	19901120	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VAN DEN BERGH FOODS COMPANY, DIVISION OF CONOPCO, OLDPARTY : DESIGNATION OF OPERATING DIVISION; ASSIGNOR:CONOPCO, INC.; REEL/FRAME:005500/0624 EFFECTIVE DATE : 19901108
US5248509 A	19961119	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5248509 A	20000929	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5248509 A	20050928	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5248509 A	20051026	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5248509 A	20051122	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20050928
US5248509 A	20100928	PEXP		Calculated Patent Term Expiry	
ZA8806172 A	19900425	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA8806172 A	20080818	PEXP		Calculated Patent Term Expiry	
ZA8806173 A	19900425	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA8806173 A	20080818	PEXP		Calculated Patent Term Expiry	
ZA8901215 A	19901031	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA8901215 A	20090215	PEXP		Calculated Patent Term Expiry	

91) Family number: 30181898 (USH2095H)

Title: FAT SUBSTITUTED AND ITS PREPARATION

Abstract: Source: USH2095H [EN] An inulin/colloidal hydrolyzed cellulose composition as a fat substitute. Processes for preparing an inulin/colloidal hydrolyzed cellulose composition by forming a paste or by spray drying. A fat substitute gel. A food containing inulin/colloidal hydrolyzed cellulose.

Classifications:
International (IPC 8-9): A21D13/00 A21D13/08 A21D2/18 A23C19/082 A23C19/09 A23D7/005 A23G3/34 A23G9/32 A23G9/34 A23G9/52 A23L1/00 A23L1/0528 A23L1/0534 A23L1/24 A23L1/38 (Advanced/Invention);
A21D13/00 A21D2/00 A23C19/00 A23D7/005 A23G3/34 A23G9/32 A23G9/52 A23L1/00 A23L1/052 A23L1/24 A23L1/36 (Core/Invention)
International (IPC 1-7): A23G3/00 A23L1/05
CPC: A21D2/18 A23C19/082 A23C19/0904 A23D7/0056 A23G3/346 A23G9/327 A23G9/34 A23G9/52 A23G2200/06 A23G2200/08 A23L27/60 A23L29/244 A23L29/262 A23P30/40 A23V2002/00 A23L25/10 A21D13/38
European: A21D13/00D12 A21D13/08D A21D2/18 A23C19/082 A23C19/09A A23D7/005S A23G3/00K A23G3/00K+D6 A23G3/00K+D8 A23G3/34E A23G9/02 A23G9/02+D6 A23G9/02+D8 A23G9/02K A23G9/02K+D6 A23G9/02K+D8 A23G9/32G A23G9/34 A23G9/52 A23L1/00P16 A23L1/0528 A23L1/0534 A23L1/24 A23L1/38
US: 426/573 426/658

Family:

Publication number	Publication date	Application number	Application date
USH2095 H1	20040106	US19960757689	19961203

Priority:

US19960757689 19961203

Probable Assignee: FMC CORP

Assignee(s): (std)**:** FMC CORP

Inventor(s): (std)**:** YOUNG TIMOTHY J

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
USH2095 H1	19961203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FMC CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:YOUNG, TIMOTHY J.; REEL/FRAME:008338/0355 EFFECTIVE DATE : 19961202
USH2095 H1	20031218	LSGT	PAT1	Patented Case	
USH2095 H1	20060321	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FMC CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE OF PATENT SECURITY INTEREST; ASSIGNOR:CITICORP USA, INC. (AS ADMINISTRATIVE AGENT); REEL/FRAME:017336/0374 EFFECTIVE DATE : 20060224

92) Family number: 30649375 (US2006134178A)

Title: COMPOSITION CONTAINING ORGANIC SUBSTANCE HAVING DOUBLE BOND WITH IMPROVED OXIDATIVE STABILITY

Abstract: Source: US2006134178A [EN] To an organic substance having a double bond such as a polyunsaturated fatty acid was added an antioxidative component containing an antioxidative sesame component and ascorbic acid or an ascorbyl fatty acid ester. The above method provides a composition containing an organic substance having a double bond exhibiting enhanced oxidative stability. Particularly, it extremely improves oxidative stability of fat and oil which contains polyunsaturated fatty acid. General-purpose refined fish oil which is easy to handle can be provided for food, medicine or feed uses.

Classifications:

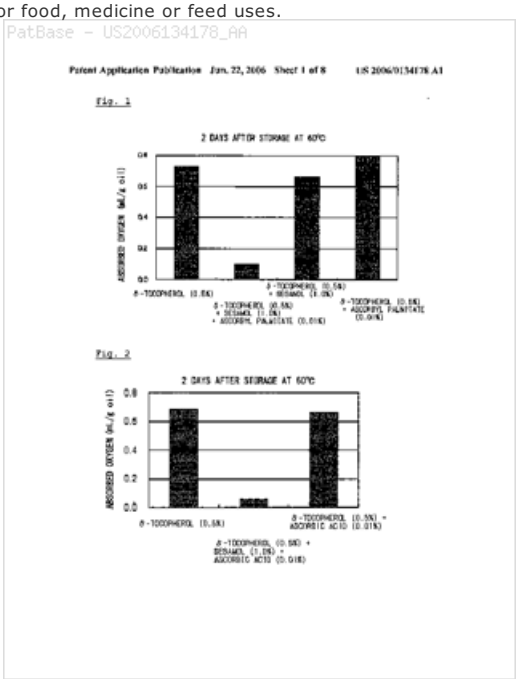
International (IPC 8-9): A23D9/00 A23D9/007 A23D9/013 A23K1/16 A61K31/085 A61K31/202 A61K31/232 A61K31/341 A61K31/36 A61K31/365 A61K35/60 A61K36/00 A61K36/18 A61K47/00 A61K8/34 A61K8/36 A61K8/37 A61K8/49 A61K8/67 A61K8/92 A61K8/97 A61P17/00 A61P29/00 A61P37/08 A61Q19/00 C09K15/00 C09K15/06 C09K15/08 C09K15/34 C11B5/00 (Advanced/Invention);
A61K31/202 A61K31/375 C09K15/06 C09K15/34 C11B5/00 (Advanced/Non-invention);
A23D9/00 A23D9/007 A23K1/16 A61K31/185 A61K31/21 A61K31/341 A61K35/56 A61K47/00 A61K8/30 A61K8/92 A61K8/96 A61P37/00 A61Q19/00 C09K15/00 C11B5/00 (Core/Invention);
A61K31/202 C09K15/06 C11B5/00 (Core/Non-invention);
A61K A61P C09K C11B (Subclass/Invention)

International (IPC 1-7): A23D9/00 A61K31/202 A61K31/232 A61K31/341 A61K31/375 A61P37/08 C09K15/06 C09K5/00 C11B5/00

CPC: A23K20/158 A61K8/498 A61K8/67 A61K8/676 A61K8/922 A61K8/97 A61K31/232 A61K31/341 A61K2800/522 A61Q19/00 C11B5/0028 A23D9/013 A23D9/00 A23D9/007 A61K8/345 A61K8/361 A61K8/375 A61K8/4973 A61K31/202 C09K15/34

European: A23D9/00 A23D9/007 A23D9/013 A23K1/16I A61K31/202 A61K31/232 A61K31/341 A61K8/34D A61K8/36 A61K8/36C A61K8/37 A61K8/37C A61K8/49H A61K8/49H2 A61K8/67 A61K8/67H A61K8/92C A61K8/97 A61Q19/00 C09K15/34 C11B5/00F2 K61K201/062 K61K800/522

US: 252/397 252/397P 424/439 424/439P 424/523 424/523S 424/725



Family:

Publication number	Publication date	Application number	Application date
AU2003284617 AA	20040618	AU20030284617	20031121
AU2003284633 AA	20040618	AU20030284633	20031121
AU2003284633 BB	20080710	AU20030284633	20031121
CA2506611 AA	20050518	CA20032506611	20031121
CN100348184 C	20071114	CN200380103936	20031121
CN100352889 C	20071205	CN200380103940	20031121
CN1714135 A	20051228	CN200380103936	20031121
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JP2004048496 A1	20060323	JP20040554998T	20031121
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JP4424743 B1	20100303	JP20040554998T	20031121
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KR101045035 B1	20110630	KR20057008827	20031121
KR20050072144 A	20050708	KR20057008827	20031121
KR20050083960 A	20050826	KR20057009245	20031121
KR20110053281 A	20110519	KR20117009013	20031121
NZ540154 A	20080731	NZ20030540154	20031121
TW200417595 A	20040916	TW20030132690	20031121
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TWI332978 B	20101111	TW20030132690	20031121
US2006134178 AA	20060622	US20050535413	20051117
US2006289834 AA	20061228	US20030536013	20031121
US8722104 BB	20140513	US20030535413	20031121
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WO04048497 A1	20040610	WO2003JP14905	20031121
ZA200504059 A	20071227	ZA20050004059	20031121

Priority:

JP20020339906 20021122 WO2003JP14877 20031121 WO2003JP14905 20031121

Probable Assignee: NIPPON SUISAN KAISHA LTD

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Inventor(s):	GUNYAMA KATASHI ; DOISAKI NOBUSHIGE YAMAGUCHI HIDEAKI JINNO... ; DOISAKI NOBUSHIGE GUNYAMA KATASHI OKANO... ; OKANO ATSUSHI ; DOISAKI NOBUSHIGE GUNYAMA KATASHI OKANO ATSUSHI JI ; DOISAKI NOBUSHIGE GUNYAMA KATASHI OKANO ATSUSHI JINNO SHUJI ; DOISAKI NOBUSHIGE JINNO SHUJI MUKAE KATSUYA ; DOISAKI NOBUSHIGE JINNO SHUJI MUKAE KATSUYA YAMAGUCHI HIDEAKI ; DOISAKI NOBUSHIGE YAMAGUCHI HIDEAKI JINNO SHUJI MU ; DOISAKI NOBUSHIGE YAMAGUCHI HIDEAKI JINNO SHUJI MUKAE KATSUYA
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; TBK; CHIBA AKIO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; WESTERMAN HATTORI DANIELS AND ADRIAN LLP; FISH AND RICHARDSON PC
Designated states:	AT AU BE BG CA CH CN CY CZ DE DK EE ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO NZ PT RO RU SE SI SK TR US ZA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2003284617 AA	20040618	LSPB	+	published / reissued	
AU2003284617 AA	20050811	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
AU2003284633 AA	20040618	LSPB	+	published / reissued	
AU2003284633 AA	20051020	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS: AMEND THE INVENTION TITLE TO READ EXTERNAL COMPOSITION CONTAINING POLYUNSATURATED FATTY ACID OR ITS SALT OR ESTER
AU2003284633 BB	20080710	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2003284633 BB	20081106	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2003284633 BB	20120614	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2003284633 BB	20231121	PEXP		Calculated Patent Term Expiry	
CA2506611 AA	20050518	LSPB	+	published / reissued	
CA2506611 AA	20080919	LSES	+EEER	EXAMINATION REQUEST	
CA2506611 AA	20120925	LSLE	-FZDE	DEAD	
CA2506611 AA	20121218	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20120925
CN100348184 C	20071114	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100348184 C	20071114	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100348184 C	20130123	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN100348184 C	20231121	PEXP		Calculated Patent Term Expiry	
CN100352889 C	20071205	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100352889 C	20071205	LSGT	+C14	GRANT OF PATENT OR	

				UTILITY MODEL	
CN100352889 C	20231121	PEXP		Calculated Patent Term Expiry	
CN1714135 A	20051228	LSPB	+	published / reissued	
CN1714135 A	20051228	LSPB	+C06	PUBLICATION	
CN1714136 A	20051228	LSPB	+	published / reissued	
CN1714136 A	20051228	LSPB	+C06	PUBLICATION	
EP1564278 A1	20050817	LSPB	+	published / reissued	
EP1564278 A1	20050817	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20050517
EP1564278 A4	20090422	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20090324
EP1564278 A4	20110223	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110124
EP1564278 A4	20170823	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20170724
EP1564278 B1	20180110	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1564278 B1	20180110	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1564278 B1	20180215	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60350918 COUNTRY OF REF DOCUMENT : DE
EP1564278 B1	20231121	PEXP		Calculated Patent Term Expiry	
EP1571195 A1	20050907	LSPB	+	published / reissued	
EP1571195 A1	20050907	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20050622
EP1571195 A4	20090826	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20090724
EP1571195 A4	20091216	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20091113
EP1571195 A4	20110803	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20110128
JP2004048496 A1	20060323	LSPB	+	published / reissued	
JP2004048497 A1	20060330	LSPB	+	published / reissued	
JP2004048497 A1	20060826	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20060825
JP2004048497 A1	20100215	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100212
JP2004048497 A1	20100406	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100405
JP2004048497 A1	20111222	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20111221
JP4424743 B1	20100303	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4424743 B1	20231121	PEXP		Calculated Patent Term Expiry	

JP4424743 B2	20100303	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4424743 B2	20060818	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20060817
JP4424743 B2	20090909	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090908
JP4424743 B2	20091110	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20091109
JP4424743 B2	20091130	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP4424743 B2	20091203	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20091202
JP4424743 B2	20091210	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP4424743 B2	20091217	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20091207
JP4424743 B2	20091218	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
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JP4424743 B2	20121115	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4424743 B2	20121120	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP4424743 B2	20140924	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP4424743 B2	20151117	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4424743 B2	20231121	PEXP		Calculated Patent Term Expiry	
KR101045035 B1	20110630	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101045035 B1	20050621	LSRE	AMND	AMENDMENT	
KR101045035 B1	20050712	LSRE	AMND	AMENDMENT	
KR101045035 B1	20080930	LSES	A201	REQUEST FOR EXAMINATION	
KR101045035 B1	20100929	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101045035 B1	20101129	LSRE	AMND	AMENDMENT	
KR101045035 B1	20110216	LSRV	-E601	DECISION TO REFUSE	

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KR101045035 B1	20110321	LSRE	AMND	AMENDMENT	
KR101045035 B1	20110516	LSGT	+B701	DECISION TO GRANT	
KR101045035 B1	20110622	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101045035 B1	20140317	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140317 YEAR OF FEE PAYMENT : 4
KR101045035 B1	20150515	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150515 YEAR OF FEE PAYMENT : 5
KR101045035 B1	20160623	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101045035 B1	20231121	PEXP		Calculated Patent Term Expiry	
KR20050072144 A	20050708	LSPB	+	published / reissued	
KR20050083960 A	20050826	LSPB	+	published / reissued	
KR20050083960 A	20081114	LSES	A201	REQUEST FOR EXAMINATION	
KR20050083960 A	20101222	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20050083960 A	20110628	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20110053281 A	20110519	LSPB	+	published / reissued	
KR20110053281 A	20110621	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
NZ540154 A	20080731	LSPB	+	published / reissued	
NZ540154 A	20081128	LSGT	+PSEA	PATENT SEALED	
NZ540154 A	20101224	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ540154 A	20131025	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 21 NOV 2016 BY CPA GLOBAL EFFECTIVE DATE : 20131010
NZ540154 A	20170526	LSLE	-LAPS	PATENT LAPSED	
TW200417595 A	20040916	LSPB	+	published / reissued	
TW200418957 A	20041001	LSPB	+	published / reissued	
TWI332978 B	20101111	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI332978 B	20231121	PEXP		Calculated Patent Term Expiry	
US2006134178 AA	20060622	LSPB	+	published / reissued	
US2006134178 AA	20051117	LSAS	AS	ASSIGNMENT	OWNER NAME : NIPPON SUISAN KAISHA, LTD., JAPAN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DOISAKI, NOBUSHIGE; KORIYAMA, TSUYOSHI; OKANO, JUN; AND OTHERS; REEL/FRAME:017237/0254; SIGNING DATES FROM 20050519 TO 20050602
US2006289834 AA	20061228	LSPB	+	published / reissued	
US2006289834 AA	20060221	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF

					ASSIGNORS INTEREST; ASSIGNORS:DOISAKI, NOBUSHIGE; YAMAGUCHI, HIDEAKI; JINNO, SHUJI; AND OTHERS; REEL/FRAME:017202/0504 EFFECTIVE DATE : 20060116
US2006289834 AA	20110421	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US8722104 BB	20140513	LSGT	+	granted / extensions (spc, cpc, pte)	
US8722104 BB	20051117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DOISAKI, NOBUSHIGE; KORIYAMA, TSUYOSHI; OKANO, JUN; AND OTHERS; REEL/FRAME:017237/0254; SIGNING DATES FROM 20050519 TO 20050602
US8722104 BB	20051117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NIPPON SUISAN KAISHA, LTD., JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DOISAKI, NOBUSHIGE; KORIYAMA, TSUYOSHI; OKANO, JUN; AND OTHERS; SIGNING DATES FROM 20050519 TO 20050602; REEL/FRAME:017237/0254
US8722104 BB	20140423	LSGT	PAT1	Patented Case	
US8722104 BB	20150929	LSRE	CC	CERTIFICATE OF CORRECTION	
US8722104 BB	20171107	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8722104 BB	20261223	PEXP		Calculated Patent Term Expiry (PTA 1128 days)	
WO04048496 A1	20040610	LSPB	+	published / reissued	
WO04048496 A1	20050509	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004554998 COUNTRY OF REF DOCUMENT : JP
WO04048496 A1	20050517	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057008827 COUNTRY OF REF DOCUMENT : KR
WO04048496 A1	20050517	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003774122 COUNTRY OF REF DOCUMENT : EP
WO04048496 A1	20050523	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038A39403 COUNTRY OF REF DOCUMENT : CN
WO04048496 A1	20050708	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057008827 COUNTRY OF REF DOCUMENT : KR
WO04048496 A1	20050817	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003774122 COUNTRY OF REF DOCUMENT : EP
WO04048496 A1	20051117	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006134178 COUNTRY OF REF DOCUMENT : US KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO04048496 A1	20051117	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10535413 COUNTRY OF REF DOCUMENT : US
WO04048496 A1	20060622	LSPB	+WWP	WIPO INFORMATION:	REF DOCUMENT NUMBER : 10535413 COUNTRY OF REF DOCUMENT : US

				PUBLISHED IN NATIONAL OFFICE	
WO04048497 A1	20040610	LSPB	+	published / reissued	
WO04048497 A1	20050518	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2506611 COUNTRY OF REF DOCUMENT : CA
WO04048497 A1	20050519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 540154 COUNTRY OF REF DOCUMENT : NZ
WO04048497 A1	20050519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004555005 COUNTRY OF REF DOCUMENT : JP
WO04048497 A1	20050519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200504059 COUNTRY OF REF DOCUMENT : ZA
WO04048497 A1	20050519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005/04059 COUNTRY OF REF DOCUMENT : ZA
WO04048497 A1	20050520	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003284633 COUNTRY OF REF DOCUMENT : AU
WO04048497 A1	20050521	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057009245 COUNTRY OF REF DOCUMENT : KR
WO04048497 A1	20050523	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038A39367 COUNTRY OF REF DOCUMENT : CN
WO04048497 A1	20050622	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003774145 COUNTRY OF REF DOCUMENT : EP
WO04048497 A1	20050826	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057009245 COUNTRY OF REF DOCUMENT : KR
WO04048497 A1	20050907	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003774145 COUNTRY OF REF DOCUMENT : EP
WO04048497 A1	20060221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10536013 COUNTRY OF REF DOCUMENT : US
WO04048497 A1	20060221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006289834 COUNTRY OF REF DOCUMENT : US
WO04048497 A1	20061228	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10536013 COUNTRY OF REF DOCUMENT : US
ZA200504059 A	20071227	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200504059 A	20231120	PEXP		Calculated Patent Term Expiry	

93) Family number: 32653343 (US2008269329A)

Title: PROCESS FOR PRODUCTION OF MICROBIAL FAT/OIL CONTAINING DISCRETIONAL AMOUNT OF DIACYLGLYCEROL AND SAID FAT/OIL

Abstract: Source: US2008269329A [EN] In a process for the production of diacylglycerol-containing fat/oil where the ratio of diacylglycerol to the total neutral lipid is more than 20 percent by weight and a polyunsaturated fatty acid is a constituting fatty acid, a process which is characterized in that a microbe being able to produce said fat/oil is incubated and, if desired, said fat/oil is collected.

Classifications:
International (IPC 8-9): A23D9/007 A23D9/02 A23K1/16 A23K1/18 A23L1/30 A61K31/201 A61K31/202 A61K31/232 A61K47/14 A61K8/30 A61K8/37 A61P25/28 A61P3/02 A61P3/06 A61P35/00 A61P7/02 A61P9/10 C07C57/00 C11B1/10 C11B3/12 C11C3/00 C12N1/14 C12N1/21 C12P7/64 (Advanced/Invention);
A23D9/00 A23D9/007 A23D9/02 A23K1/16 A23L1/30 A61K31/23 A61K31/232 A61K8/30 A61P25/28 A61P3/02 A61P3/06 A61P35/00 A61P7/02 A61P9/10 (Advanced/Non-invention);
A23D9/007 A23D9/02 A61K31/185 A61K31/21 A61K8/30 C07C57/00 C11B1/00 C11B3/00 C11C3/00 C12N1/14 C12P7/64 (Core/Invention);
A23D9/00 A23D9/007 A23D9/02 A23K1/16 A23L1/30 A61K31/21 A61K8/30 A61P25/00 A61P3/00 A61P35/00 A61P7/00 A61P9/00 (Core/Non-invention)
International (IPC 1-7): C12N1/14 C12P7/64
CPC: A23K20/158 A61K8/375 A23D9/013 A23V2002/00 A61K8/67 A61K8/922 A61K8/99 A61Q19/00 C11B1/10 C11B3/12 C12P7/6472 A23L33/115 A23L33/12
European: A23D9/013 A23K1/16I A23L1/30C A23L1/30C2 A61K8/37C A61K8/67 A61K8/92C A61K8/99 A61Q19/00 C11B1/10 C11B3/12 C12P7/64E2F K23V2/00
US: 435/134 435/134S 435/254.1 435/254.100S 514/560 554/224 554/224S

Family:

Publication number	Publication date	Application number	Application date
AU2005275741 AA	20060302	AU20050275741	20050819
CA2577676 AA	20070219	CA20052577676	20050819
CN101006181 A	20070725	CN200580028326	20050819
EP1818410 A1	20070815	EP20050774958	20050819
EP1818410 A8	20071010	EP20050774958	20050819
IN02016DN2007 A	20070803	IN2007DN02016	20070315
JP2006022356 A1	20080508	JP20060532602T	20050819
KR20070046149 A	20070502	KR20077004577	20070226
SG155228 A1	20090930	SG20090054933	20050819
TH78334 A	20060629	TH20051003954	20050824
TW200617173 A	20060601	TW20050128907	20050824
US2008269329 AA	20081030	US20050660859	20050819
WO06022356 A1	20060302	WO2005JP15487	20050819

Priority:

JP20040244297 20040824 WO2005JP15487 20050819

Probable Assignee: SUNTORY HOLDINGS LTD

Assignee(s): (std): FUJIKAWA SHIGEAKI ; OGAWA JUN ; SAKURADANI EIJI ; SHIMIZU SAKAYU ; SUNTORY HOLDINGS LTD ; SUNTORY LTD

Assignee(s): SUNTORY LIMITED ; SUNTORY HOLDINGS LIMITED

Inventor(s): (std): FUJIKAWA SHIGEAKI ; OGAWA JUN ; SAKAYU FUJIKAWA SHIGEAKI SAKUR ; SAKURADANI EIJI ; SHIMIZU SAKAYU

Inventor(s): FUJIKAWA SHIGEAKI SAKURADANI EIJI OGAWA JUN... ; EIJI SAKURADANI ; SHIGEAKI FUJIKAWA ; SAKAYU SHIMIZU ; FUJIKAWA SHIGEAKI SAKURADANI EIJI OGAWA JUN SHIMIZU SAKAYU ; JUN OGAWA

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL; KOGA TETSUJI; AOKI ATSUSHI; FUKUMOTO TSUMORU; ISHIDA TAKASHI; DRINKER BIDDLE AND REATH (DC); DRINKER BIDDLE AND REATH

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2005275741 AA	20060302	LSPB	+	published / reissued	
AU2005275741 AA	20090716	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : SUNTORY HOLDINGS LIMITED OLDPARTY : FORMER APPLICANT(S): SUNTORY LIMITED
AU2005275741 AA	20110317	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
CA2577676 AA	20070219	LSPB	+	published / reissued	

CA2577676 AA	20110819	LSLE	-FZDE	DEAD	
CN101006181 A	20070725	LSPB	+	published / reissued	
CN101006181 A	20070725	LSPB	+C06	PUBLICATION	
CN101006181 A	20090729	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SUNTORY HOLDINGS CO., LTD. OLDPARTY : FORMER OWNER: SUNTORY LTD. EFFECTIVE DATE : 20090626
CN101006181 A	20090729	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101006181 A	20110105	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP1818410 A1	20070815	LSPB	+	published / reissued	
EP1818410 A1	20070815	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070323
EP1818410 A8	20090812	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : SUNTORY HOLDINGS LIMITED
EP1818410 A8	20100317	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20100205
IN02016DN2007 A	20070803	LSPB	+	published / reissued	
JP2006022356 A1	20080508	LSPB	+	published / reissued	
JP2006022356 A1	20080807	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080806
JP2006022356 A1	20080807	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080806
JP2006022356 A1	20090425	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A712 EFFECTIVE DATE : 20090424
JP2006022356 A1	20110413	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20110412
JP2006022356 A1	20111026	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20111025
KR20070046149 A	20070502	LSPB	+	published / reissued	
KR20070046149 A	20090430	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20070046149 A	20100921	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
SG155228 A1	20090930	LSPB	+	published / reissued	
TH78334 A	20060629	LSPB	+	published / reissued	
TW200617173 A	20060601	LSPB	+	published / reissued	
US2008269329 AA	20081030	LSPB	+	published / reissued	
US2008269329 AA	20080527	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SUNTORY LIMITED, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FUJIKAWA, SHIGEAKI; SAKURADANI, EIJI; OGAWA, JUN; AND OTHERS; REEL/FRAME:021002/0927 EFFECTIVE DATE : 20070221
US2008269329 AA	20090727	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SUNTORY HOLDINGS LIMITED, JAPAN

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SUNTORY LIMITED; REEL/FRAME:023049/0707 EFFECTIVE DATE : 20090331
US2008269329 AA	20090727	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SUNTORY HOLDINGS LIMITED,JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SUNTORY LIMITED; REEL/FRAME:023049/0707 EFFECTIVE DATE : 20090331
US2008269329 AA	20110126	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO06022356 A1	20060302	LSPB	+	published / reissued	
WO06022356 A1	20070208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006532602 COUNTRY OF REF DOCUMENT : JP
WO06022356 A1	20070217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580028326.4 COUNTRY OF REF DOCUMENT : CN
WO06022356 A1	20070219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005275741 COUNTRY OF REF DOCUMENT : AU
WO06022356 A1	20070219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2577676 COUNTRY OF REF DOCUMENT : CA
WO06022356 A1	20070226	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020077004577 COUNTRY OF REF DOCUMENT : KR
WO06022356 A1	20070227	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06022356 A1	20070315	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005275741 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20050819 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO06022356 A1	20070315	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005275741 COUNTRY OF REF DOCUMENT : AU
WO06022356 A1	20070323	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005774958 COUNTRY OF REF DOCUMENT : EP
WO06022356 A1	20070815	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005774958 COUNTRY OF REF DOCUMENT : EP
WO06022356 A1	20080527	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11660859 COUNTRY OF REF DOCUMENT : US

94) Family number: 33533199 (US5240726A)

Title: PRODUCT AND PROCESS OF MAKING LOW CALORIE NUTS

Abstract: Source: US5240726A [EN] The present invention relates to nuts and nut products which have at least a portion of their natural fat replaced with a low calorie fat-like material. This is achieved by partially defatting the nuts and then either contacting them or combining (i.e., mixing) them with a non-digestible or partially digestible triglyceride material which includes a triglyceride bearing one long chain fatty acid residue and two short chain fatty acid residues. The resulting nuts and nut products have the organoleptic character of full fat nuts and nut products but a much lower calorie content.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/34 A23G9/32 A23L1/30 A23L1/36 A23L1/38 C07C69/30 C11C3/04 C11C3/10 (Advanced/Invention);
A23G1/30 (Core/Invention)
International (IPC 1-7): A23L1/36
CPC: A21D2/165 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G9/327 A23G2200/08 A23L25/20 A23L33/12 C07C69/30 C11C3/04 C11C3/10
European: A21D2/16D A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G9/32G A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/10 K23G200/08
US: 426/289 426/293 426/309 426/601 426/607 426/611 426/632 426/93

Family:

Publication number	Publication date	Application number	Application date
US5240726 A	19930831	US19920893859	19920605

Priority:

US19910731845 19910716 US19910804140 19911206 US19920893859 19920605

Probable Assignee: DANISCO USA INC

Assignee(s): (std): NABISCO INC

Assignee(s): NABISCO TECHNOLOGY CO ; DANISCO USA INC

Inventor(s): (std): FINLEY JOHN W ; OTTERBURN MICHAEL S ; WHEELER EDWARD L ; YOST RUTH A ; ZOOK DENISE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5240726 A	19930831	LSGT	+	granted / extensions (spc, cpc, pte)	
US5240726 A	19920730	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:ZOOK, DENISE E.; YOST, RUTH A.; WHEELER, EDWARD L.; AND OTHERS; REEL/FRAME:006196/0516 EFFECTIVE DATE : 19920721
US5240726 A	19930624	LSGT	PAT1	Patented Case	
US5240726 A	19940614	LSRE	CC	CERTIFICATE OF CORRECTION	
US5240726 A	19970207	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5240726 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5240726 A	20010902	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5240726 A	20011106	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20010831
US5240726 A	20040929	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DANISCO USA INC., NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KRAFT FOOD HOLDINGS, INC.; REEL/FRAME:015190/0693 EFFECTIVE DATE : 20040810

US5240726 A	20120605	PEXP	Calculated Patent Term Expiry

95) Family number: 33535305 (WO9325094A1)

Title: PROCESS OF MAKING LOW CALORIE NUT PRODUCTS

Abstract: The present invention relates to nuts and nut products which have at least a portion of their natural fat replaced with a low calorie fat-like material. This is achieved by partially defatting the nuts and then either contacting them or combining (i.e., mixing) them with a non-disgestible or partially digestible triglyceride material which includes a triglyceride bearing one long chain fatty acid residue and two short chain fatty acid residues. The resulting nuts and nut products have the organoleptic character of full fat nuts and nut products but a much lower calorie content.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/34 A23G9/32 A23L1/29 A23L1/30 A23L1/36 A23L1/38 C07C69/30 C11C3/04 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23L1/29 A23L1/36
CPC: A23L25/20 A23L33/12 A21D2/165 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G9/327 A23G2200/08 C07C69/30 C11C3/04 C11C3/10
European: A21D2/16D A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G9/32G A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
CA2137286 AA	19941202	CA19932137286	19930602
WO9325094 A1	19931223	WO1993US05291	19930602

Priority:
US19920893859 19920605 WO1993US05291 19930602

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Assignee(s): OTTERBURN MICHAEL S ; WHEELER EDWARD L ; YOST RUTH ANN ; ZOOK DENISE ; FINLEY JOHN W
Inventor(s): (std): FINLEY JOHN W ; OTTERBURN MICHAEL S ; WHEELER EDWARD L ; YOST RUTH ANN ; ZOOK DENIS
Inventor(s): ZOOK DENISE
Agent(s): SMART AND BIGGAR
Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2137286 AA	19941202	LSPB	+	published / reissued	
CA2137286 AA	20010604	LSLE	-FZDE	DEAD	
WO9325094 A1	19931223	LSPB	+	published / reissued	
WO9325094 A1	19941128	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1993914361 COUNTRY OF REF DOCUMENT : EP
WO9325094 A1	19941202	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2137286 COUNTRY OF REF DOCUMENT : CA
WO9325094 A1	19950315	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993914361 COUNTRY OF REF DOCUMENT : EP
WO9325094 A1	20000408	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993914361 COUNTRY OF REF DOCUMENT : EP

96) Family number: 33535951 (EP0642308A4)

Title: PROCESS OF MAKING LOW CALORIE NUT PRODUCTS.

Classifications:
International (IPC 8-9): A21D2/16 A23D7/00 A23D7/015 A23D9/00 A23G1/00 A23G1/36 A23G3/34 A23G9/32 A23L1/30 A23L1/36 A23L1/38 C07C69/30 C11C3/04 C11C3/10 (Advanced/Invention)
International (IPC 1-7): A23L1/36 A23L1/38
CPC: A23L25/20 A23L33/12 A21D2/165 A23D7/001 A23D7/003 A23D7/015 A23D9/00 A23G1/36 A23G3/343 A23G3/346 A23G9/327 A23G2200/08 C07C69/30 C11C3/04 C11C3/10
European: A21D2/16D A23D7/00B A23D7/00D A23D7/015 A23D9/00 A23G1/36 A23G3/34C A23G3/34E A23G9/32G A23L1/30C2 A23L1/36B C07C69/30 C11C3/04 C11C3/10 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
EP0642308 A1	19950315	EP19930914361	19930602
EP0642308 A4	19960626	EP19930914361	19930602
JP7507456 T2	19950824	JP19940501577T	19930602

Priority:
US19920893859 19920605 WO1993US05291 19930602

Probable Assignee: NABISCO INC
Assignee(s): (std): NABISCO INC
Inventor(s): (std): FINLEY JOHN W ; OTTERBURN MICHAEL S ; WHEELER EDWARD L ; YOST RUTH ANN ; ZOOK DENIS CENTER GROVE ROAD
Inventor(s): ZOOK DENIS ; ZOOK DENIS 44 CENTER GROVE ROAD
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP0642308 A1	19950315	LSPB	+	published / reissued	
EP0642308 A1	19950315	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19941128
EP0642308 A4	19960626	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19960507
EP0642308 A4	19990929	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19990817
EP0642308 A4	20000621	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20000408
JP7507456 T2	19950824	LSPB	+	published / reissued	

97) Family number: 4530231 (US5006351A)

Title: CYCLOHEXYL DIOL DIESTERS AS LOW CALORIE FAT MIMETICS

Abstract: Source: US5006351A [EN] Collectively called cyclohexyl diol diesters, the fatty acid diesters of cyclohexanediol, cyclohexenediol, and cyclohexdienediol and their dimethanol and diethanol counterparts, are edible, preferably partially digestible, fat replacements. Methods of using the new fat mimetics and food compositions incorporating them are described.
Classifications:
International (IPC 8-9): A23C19/055 A23C9/152 A23D7/01 A23D7/015 A23D9/013 A23G1/00 A23G1/38 A23G1/56 A23G3/34 A23G9/52 A23K1/18 A23L1/308 C07C69/003 C07C69/007 (Advanced/Invention);
A23C19/00 A23C9/152 A23D7/005 A23D7/015 A23D9/007 A23G1/00 A23G1/30 A23G3/34 A23G9/52 A23K1/18 A23L1/308 C07C69/00 (Core/Invention)
International (IPC 1-7): A23D7/00
CPC: Y10S426/804 A23G1/56 A23C9/1528 A23C19/055 A23D7/013 A23D7/015 A23D9/013 A23G1/38 A23G3/346 A23G9/52 A23G2200/08 C07C69/003 C07C69/007 A23K50/40 A23L33/26
European: A23C19/055 A23C9/152F A23D7/015 A23D7/01S A23D9/013 A23G1/00K A23G1/00K+D8 A23G1/38 A23G1/56 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02K A23G9/02K+D8 A23G9/52 A23K1/18N A23L1/308P C07C69/003 C07C69/007 K23G200/08
US: 260/410 426/601 426/604 426/611 426/804 554/223 554/224 554/228 560/231

Family:

Publication number	Publication date	Application number	Application date
US5006351 A	19910409	US19890372288	19890627

Priority:

US19890372288 19890627

Probable Assignee: NABISCO TECHNOLOGY CO

Assignee(s): (std): NABISCO BRANDS INC

Assignee(s): NABISCO BRANDS INC 200 DEFOREST AVENUE EAST HANOVE ; NABISCO BRANDS INC 200 DEFOREST AVENUE EAST HANOVER NEW JERSEY 07936 A CORP OF DELAWARE ; NABISCO INC ; NABISCO TECHNOLOGY CO ; NABISCO INC A NJ CORP

Inventor(s): (std): FINLEY JOHN W ; KLEMANN LAWRENCE P ; SCIMONE ANTHONY

Legal status (INPADOC)

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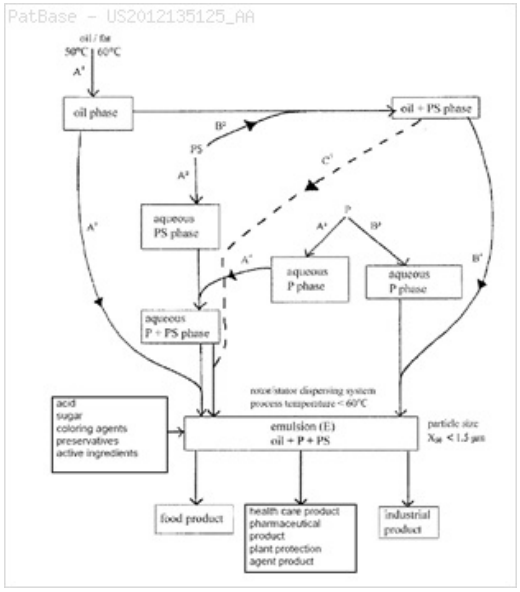
Patent	Date recorded	Event group	Code	Event	Details
US5006351 A	19910409	LSGT	+	granted / extensions (spc, cpc, pte)	
US5006351 A	19890627	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO BRANDS, INC., 200 DEFOREST AVENUE, EAST HA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:KLEMANN, LAWRENCE P.; FINLEY, JOHN W.; SCIMONE, ANTHONY; REEL/FRAME:005097/0889 EFFECTIVE DATE : 19890623
US5006351 A	19910207	LSGT	PAT1	Patented Case	
US5006351 A	19920326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO, INC., A NJ CORP., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:NABISCO BRANDS, INC., A DE CORP.; REEL/FRAME:006059/0606 EFFECTIVE DATE : 19920323
US5006351 A	19940729	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5006351 A	19970424	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NABISCO TECHNOLOGY COMPANY, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NABISCO, INC.; REEL/FRAME:008579/0766 EFFECTIVE DATE : 19970101
US5006351 A	19990411	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5006351 A	19990810	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19990409

US5006351 A	20090627	PEXP	Calculated Patent Term Expiry

98) Family number: 47485597 (US2012135125A)

Title: CONCENTRATED, CREAMY TO SOLID AND DRY COMPOSITIONS OF AN OIL-IN-WATER EMULSION, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF FOR PRODUCING IMPROVED FOODS IN TERMS OF SENSORY ASPECTS AND NUTRITION PHYSIOLOGY

Abstract: Source: US20012135125A [EN] The invention relates to an oil-in-water emulsion, substantially comprising protein, polysaccharide and oil or fat having unique stabilizing properties, which is suited for use as a thickener, suspending agent, coating material and as an additive to food in the production of a plurality of products. Furthermore, foods are provided which have improved properties in terms of sensory aspects and nutrition physiology compared to conventionally produced products, and a method for the production thereof is provided. In addition, the emulsion and products produced according to the invention can be dried and subsequently rehydrated in order to obtain compositions that have substantially the same properties as the non-dried compositions.



Classifications:

International (IPC 8-9): A01N25/04 A23C11/00 A23C9/00 A23C9/13 A23C9/152 A23C9/20 A23D7/00 A23D7/005 A23G3/00 A23G3/34 A23G9/32 A23G9/44 A23G9/52 A23L1/03 A23L1/035 A23L1/0524 A23L1/0532 A23L1/0534 A23L1/16 A23L1/18 A23L1/24 A23L1/29 A23L1/30 A23L1/314 A23L1/317 A23L1/39 A23L2/52 A23L33/00 A61K47/36 A61K47/38 A61K47/42 A61K47/44 A61K8/06 A61K8/64 A61K8/73 A61K8/92 A61K9/107 A61Q19/00 C09G1/04 C09J101/10 C09J103/12 C09J189/00 C09K3/10 C10M101/02 C10M101/04 C10M145/40 C10M159/02 C11D3/18 C11D3/20 C11D3/22 C11D3/382 (Advanced/Invention)

CPC: C11D3/222 C11D3/38 C11D17/0017 C08L91/00 A61K8/068 A61K8/64 A61K8/73 A61K8/732 A61K8/733 A61K8/922 A61K9/0014 A61K9/1075 A61K47/36 A21D2/183 A21D2/188 A21D2/263 A21D2/264 A23C9/13 A23C9/137 A23C9/152 A23C19/076 A23G9/34 A23L2/38 A23L2/56 A23L2/66 A23L13/65 A23L13/67 A23L19/09 A23L23/00 A23L27/60 A23L27/80 A23L33/115 A23L33/135 A23L33/21 C12G3/06 A23L13/426 A23L33/185 A23L33/19 A23L33/40 A23L33/10 A23D7/0053 A23C9/1307 A23C9/1315 A23C9/1528 A23C9/1544 A23C11/02 A23C17/00 A23C19/0765 A23F5/243 A23G9/327 A23G9/38 A23L2/02 A23L2/52 A23L2/62 A23V2002/00 A61K8/06 A61K8/062 A61K8/645 A61K8/731 A61Q19/00 A23L29/231 A23L29/262

European: A21D2/18C A21D2/18F A21D2/26B4 A21D2/26D A23C11/02 A23C17/00 A23C19/076 A23C19/076B A23C9/13 A23C9/137 A23C9/13B A23C9/13D A23C9/152 A23C9/152F A23C9/154D A23D7/005N A23F5/24B A23G9/32G A23G9/34 A23G9/38 A23L1/0524 A23L1/0534 A23L1/212E A23L1/22C A23L1/24 A23L1/29F A23L1/30 A23L1/305C A23L1/305D A23L1/308 A23L1/30C A23L1/30M A23L1/314B4 A23L1/317B A23L1/317D A23L1/39 A23L2/02 A23L2/38 A23L2/52 A23L2/56 A23L2/62 A23L2/66 A61K47/36 A61K8/06 A61K8/06A A61K8/06C A61K8/06M A61K8/64 A61K8/64C A61K8/73 A61K8/73C A61K8/73F A61K8/73H A61K8/92C A61K9/00M3 A61K9/107D A61Q19/00 C08L91/00 C12G3/06 K23V2/00

US: 426/602 426/602P

Family:

Publication number	Publication date	Application number	Application date
AU2010243827 AA	20101104	AU20100243827	20100430
AU2010243827 AB	20111124	AU20100243827	20100430
BRPI1007782 A2	20150901	BR2010PI07782	20100430
CA2760490 AA	20101104	CA20102760490	20100430
CN102458139 A	20120516	CN201080028075	20100430
DE102009019550 A1	20110407	DE200910019550	20090430
DE102009019550 B4	20160609	DE200910019550	20090430
DE102009019551 A1	20101209	DE200910019551	20090430
DE102009019551 B4	20160609	DE200910019551	20090430
DE202010017298 U1	20120119	DE201020017298U	20100430
DE202010017314 U1	20120119	DE201020017314U	20100430
EA201190246 A1	20130130	EA20110090246	20100430
EP2424380 A1	20120307	EP20100719736	20100430
IN04373KN2011 A	20120817	IN2011KN04373	20111024
JP2012525123 T2	20121022	JP20120507643T	20100430
KR20120024570 A	20120314	KR20117025766	20100430
MX2011011535 A1	20120208	MX20110011535	20100430
NZ596026 A	20130830	NZ20100596026	20100430
US2012135125 AA	20120531	US20100266912	20100430
WO10124870 A1	20101104	WO2010EP02654	20100430

Priority:

DE200910019550 20090430 DE200910019551 20090430 WO2010EP02654 20100430
DE201020017298U 20100430 DE201020017314U 20100430

Probable Assignee: OPTISENS GMBH

Assignee(s): (std): MUSCHIOLIK GERALD ; OPTISENS GMBH ; PAULUS KLAUS O

Inventor(s): (std): MUSCHIOLIK GERALD ; MUSCHIOLIK GERALD PROF DR ; PAULUS KLAUS ; PAULUS KLAUS O ; PAULUS KLAUS O DR ; GERALD MUSCHIOLIK

Inventor(s): KLAUS O PAULUS

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; GOUDREAU GAGE DUBUC; STEINECKE PETER

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS

IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2010243827 AA	20101104	LSPB	+	published / reissued	
AU2010243827 AB	20111124	LSRE	DA3	AMENDMENTS MADE SECTION 104	TEXT : THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 04 NOV 2011
AU2010243827 AB	20141127	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI1007782 A2	20151103	LSAS	B25G	REQUESTED CHANGE OF HEADQUARTER APPROVED	PARTYTYPE : OWNER OWNER : OPTISENS GMBH (DE)
BRPI1007782 A2	20151208	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 5A ANUIDADE.
BRPI1007782 A2	20160405	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2344 DE 08-12-2015 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
CA2760490 AA	20101104	LSPB	+	published / reissued	
CA2760490 AA	20150626	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20150430
CN102458139 A	20120516	LSPB	+	published / reissued	
CN102458139 A	20120516	LSPB	+C06	PUBLICATION	
CN102458139 A	20140611	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	
DE102009019550 A1	20110407	LSPB	+	published / reissued	
DE102009019550 A1	20110407	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102009019550 A1	20120405	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, DE OLDPARTY : FORMER OWNER: OPTISENS GMBH, 60528 FRANKFURT, DE EFFECTIVE DATE : 20120214
DE102009019550 A1	20130130	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019550 A1	20130202	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019550 A1	20150714	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019550 A1	20160127	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019550 A1	20160222	LSGT	+R018	GRANT DECISION BY EXAMINATION SECTION/EXAMINING DIVISION	
DE102009019550 A1	20170310	LSGT	+R020	PATENT GRANT NOW FINAL	

DE102009019550 B4	20160609	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102009019550 B4	20290430	PEXP		Calculated Patent Term Expiry	
DE102009019551 A1	20101209	LSPB	+	published / reissued	
DE102009019551 A1	20101209	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102009019551 A1	20120405	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, DE OLDPARTY : FORMER OWNER: OPTISENS GMBH, 60528 FRANKFURT, DE EFFECTIVE DATE : 20120214
DE102009019551 A1	20130130	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019551 A1	20130202	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019551 A1	20150714	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019551 A1	20151201	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019551 A1	20151223	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102009019551 A1	20160111	LSGT	+R018	GRANT DECISION BY EXAMINATION SECTION/EXAMINING DIVISION	
DE102009019551 A1	20170310	LSGT	+R020	PATENT GRANT NOW FINAL	
DE102009019551 B4	20160609	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102009019551 B4	20290430	PEXP		Calculated Patent Term Expiry	
DE202010017298 U1	20120119	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202010017298 U1	20120119	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20120119
DE202010017298 U1	20120606	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, DE OLDPARTY : FORMER OWNER: OPTISENS GMBH, 60528 FRANKFURT, DE EFFECTIVE DATE : 20120416
DE202010017298 U1	20130416	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
DE202010017298 U1	20130606	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20130416
DE202010017298 U1	20160428	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	
DE202010017298 U1	20200430	PEXP		Calculated Patent Term Expiry	
DE202010017314 U1	20120119	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202010017314 U1	20120119	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20120119
DE202010017314 U1	20120606	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, DE OLDPARTY : FORMER OWNER: OPTISENS GMBH, 60528 FRANKFURT, DE EFFECTIVE DATE : 20120416
DE202010017314 U1	20130204	LSGT	+R150	TERM OF	

				PROTECTION EXTENDED TO 6 YEARS	
DE202010017314 U1	20130328	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20130204
DE202010017314 U1	20160428	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	
DE202010017314 U1	20200430	PEXP		Calculated Patent Term Expiry	
EA201190246 A1	20130130	LSPB	+	published / reissued	
EP2424380 A1	20120307	LSPB	+	published / reissued	
EP2424380 A1	20120307	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111124
EP2424380 A1	20120523	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : OPTISENS GMBH
EP2424380 A1	20160914	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20160810
IN04373KN2011 A	20120817	LSPB	+	published / reissued	
JP2012525123 T2	20121022	LSPB	+	published / reissued	
JP2012525123 T2	20130205	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130203
JP2012525123 T2	20130205	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20130203
JP2012525123 T2	20140401	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140331
JP2012525123 T2	20140905	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20140904
KR20120024570 A	20120314	LSPB	+	published / reissued	
KR20120024570 A	20150601	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
MX2011011535 A1	20120208	LSPB	+	published / reissued	
NZ596026 A	20130830	LSPB	+	published / reissued	
NZ596026 A	20131220	LSGT	+PSEA	PATENT SEALED	
NZ596026 A	20141128	LSLE	-LAPS	PATENT LAPSED	
US2012135125 AA	20120531	LSPB	+	published / reissued	
US2012135125 AA	20120106	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MUSCHIOLIK, GERALD; PAULUS, KLAUS O.; SIGNING DATES FROM 20111105 TO 20111108; REEL/FRAME:027495/0246
US2012135125 AA	20120601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OPTISENS GMBH, GERMANY OLDPARTY : CHANGE OF ADDRESS; ASSIGNOR:OPTISENS GMBH; REEL/FRAME:028314/0872 EFFECTIVE DATE : 20111221
US2012135125 AA	20150923	LSES	NFA1	Non Final Action Mailed	
US2012135125 AA	20170519	LSES	ADV2	Advisory Action Counted, Not Yet Mailed	
US2012135125 AA	20170523	LSES	ADV1	Advisory Action Mailed	

WO10124870 A1	20101104	LSPB	+	published / reissued	
WO10124870 A1	20111025	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012507643 COUNTRY OF REF DOCUMENT : JP
WO10124870 A1	20111027	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 596026 COUNTRY OF REF DOCUMENT : NZ
WO10124870 A1	20111028	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20117025766 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10124870 A1	20111028	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2760490 COUNTRY OF REF DOCUMENT : CA
WO10124870 A1	20111117	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010243827 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20100430 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10124870 A1	20111129	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : A201112479 COUNTRY OF REF DOCUMENT : UA
WO10124870 A1	20120123	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13266912 COUNTRY OF REF DOCUMENT : US
WO10124870 A1	20150901	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI1007782 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20111028

99) Family number: 8534980 (WO9517953A1)

Title: HIGH INTERNAL PHASE WATER/OIL EMULSIONS AND WATER/OIL/WATER EMULSIONS

Abstract: Stable, redispersible, high internal phase w/o emulsion concentrates having a weight ratio of water: oil from about 3.5:1 to about 19:1 are prepared under low shear using 0.5 to 3 weight percent, based on the weight of the oil phase, of an emulsifier that is a polyglycerol ester of polycondensed ricinoleic acid. These concentrates may be used, for example, as fat mimetics in the food industry, as clouding agents for beverages, and in cosmetic and pharmaceutical compositions. The concentrates may further be used in and includes w/o/w emulsion compositions.

Classifications:

International (IPC 8-9): A23C9/152 A23C9/20 A23D7/00 A23D7/01 A23D9/00 A23D9/013 A23G3/34 A23G9/32 A23L1/035 A23L1/24 A23L1/307 A23L1/308 A23L1/48 A23L2/62 A61K47/14 A61K47/34 A61K8/06 A61K8/30 A61K8/37 A61K8/39 A61K8/97 A61K9/00 A61K9/107 A61K9/113 B01F17/00 B01F17/52 B01J13/00 C11C3/00 (Advanced/Invention);
A23D7/00 A61K47/34 A61K8/30 A61K9/107 B01J13/00 C11C3/00 (Advanced/Non-invention);
A23C9/152 A23D7/00 A23D7/005 A23D9/007 A23G3/34 A23G9/32 A23L1/03 A23L1/24 A23L1/308 A23L1/48 A23L2/52 A61K47/14 A61K47/34 A61K8/04 A61K8/30 A61K8/96 A61K9/00 A61K9/107 A61K9/113 B01F17/00 B01J13/00 C11C3/00 (Core/Invention)

International (IPC 1-7): A23C9/20 A23D7/00 A23D9/00 A23G9/02 A23L1/24 A23L1/307 A61K47/34 A61K7/00 A61K7/40 A61K7/42 A61K9/107 B01F17/00 B01F17/52 B01J13/00 C11C3/00

CPC: A23L27/60 A23L29/10 A23L33/26 A23L35/10 A23G9/327 A23C9/1528 A23D7/011 A23D9/013 A23G3/346 A23G2200/08 A23L2/62 A61K9/0014 A61K9/113 A61K47/14 B01F17/0028

European: A23C9/152F A23D7/01N A23D9/013 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02 A23G9/02+D8 A23G9/32G A23L1/035 A23L1/24 A23L1/308P A23L1/48F A23L2/62 A61K47/14 A61K9/00M3 A61K9/113 B01F17/00E2 K23G200/08

Family:

Publication number	Publication date	Application number	Application date
AU199514073 A1	19950717	AU19950014073	19941227
CA2180335 AA	19960702	CA19942180335	19941227
EP0737097 A1	19961016	EP19950905467	19941227
EP0737097 A4	19970409	EP19950905467	19941227
JP9501100 T2	19970204	JP19950518159T	19941227
MX9500133 A1	19970329	MX19950000133	19950102
WO9517953 A1	19950706	WO1994US14884	19941227

Priority:

US19930176778 19931230 WO1994US14884 19941227

Probable Assignee: FMC CORP

Assignee(s): (std): FMC CORP

Assignee(s): MCGINLEY EMANUEL J ; YOUNG TIMOTHY J

Inventor(s): (std): MCGINLEY EMANUEL J ; YOUNG TIMOTHY J

Inventor(s): TIMOTHY J YOUNG ; EMANUEL J MCGINLEY

Agent(s): OSLER HOSKIN AND HARCOURT LLP

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199514073 A1	19950717	LSPB	+	published / reissued	
CA2180335 AA	19960702	LSPB	+	published / reissued	
CA2180335 AA	19960702	LSES	+EEER	EXAMINATION REQUEST	
CA2180335 AA	20000218	LSLE	-FZDE	DEAD	
EP0737097 A1	19961016	LSPB	+	published / reissued	
EP0737097 A1	19961016	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960701
EP0737097 A4	19970409	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 19970224
EP0737097 A4	19990127	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19981210
EP0737097 A4	19991020	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19990421
JP9501100 T2	19970204	LSPB	+	published / reissued	
MX9500133 A1	19970329	LSPB	+	published / reissued	
WO9517953 A1	19950706	LSPB	+	published / reissued	
WO9517953 A1	19960701	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO	REF DOCUMENT

				NATIONAL PHASE	NUMBER : 1995905467 COUNTRY OF REF DOCUMENT : EP
WO9517953 A1	19960702	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2180335 COUNTRY OF REF DOCUMENT : CA
WO9517953 A1	19961010	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9517953 A1	19961016	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995905467 COUNTRY OF REF DOCUMENT : EP
WO9517953 A1	19990421	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995905467 COUNTRY OF REF DOCUMENT : EP

100) Family number: 9646233 (US5395629A)

Title: PREPARATION OF BUTTERFAT AND VEGETABLE BUTTER SUBSTITUTES

Abstract: Source: US5395629A [EN] Fat substitutes are prepared without a molecular distillation step by enzymatically or chemically interesterifying a fully hydrogenated vegetable oil rich in stearic acid (FHLCT) with a medium chain fatty acid triglyceride rich in caproic, caprylic and capric fatty acids (MCT) under conditions such that the amount of tristearin in the interesterified mixture is lower than 5 percent by weight. The interesterified mixture is bleached and deodorized, and may be used as a substitute for butterfat or vegetable butter, e.g., cocoa butter.

Classifications:
International (IPC 8-9): A23D9/00 A23G1/00 A23G1/38 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/30 A23L1/307 C11B7/00 C11C3/10 (Advanced/Invention);
A23D9/00 A23G1/00 A23G1/30 A23G3/00 A23G3/34 A23G9/32 A23G9/52 A23L1/30 A23L1/307 C11B7/00 C11C3/00 (Core/Invention)
International (IPC 1-7): A23C15/02 A23D9/00 A23G3/00 A23L1/29 A23L1/307 C11B3/14 C11B7/00 C11C3/10
CPC: A23L33/115 A23G1/38 A23G3/346 A23G9/327 A23G9/52 A23G2200/08 C11B7/0083 C11C3/10
European: A23G1/00K A23G1/00K+D8 A23G1/38 A23G3/00K A23G3/00K+D8 A23G3/34E A23G9/02 A23G9/02+D8 A23G9/02K A23G9/02K+D8 A23G9/32G A23G9/52 A23L1/30C C11B7/00D C11C3/10 K23G200/08
US: 426/35 426/56 426/603 426/607 435/134

Family:

Publication number	Publication date	Application number	Application date
AT188729 E	20000115	AT19930117053T	19931021
DE69327568 D1	20000217	DE19936027568	19931021
DE69327568 T2	20000831	DE19936027568T	19931021
DK0597295 T3	20000522	DK19930117053T	19931021
EP0597295 A2	19940518	EP19930117053	19931021
EP0597295 A3	19950329	EP19930117053	19931021
EP0597295 B1	20000112	EP19930117053	19931021
ES2141747 T3	20000401	ES19930117053T	19931021
JP3208236 B2	20010910	JP19930282211	19931111
JP6209705 A2	19940802	JP19930282211	19931111
US5395629 A	19950307	US19920975413	19921112

Priority:
US19920975413 19921112

Probable Assignee: NESTEC SA

Assignee(s): (std): NESTLE SA ; NESTEC SA ; DES PRODUITS NESTLE S A SOC

Assignee(s): DES PRODUITS NESTLE SA SOC ; NESTEC AVENUE NESTLE SA ; D PRODUITS NESTLE S A SOC ; PROD NESTLE SA SOC ; NESTEC S A ; SOCIETE DES PRODUITS NESTLE S A ; SOC D PRODUITS NESTLE S A ; SOC PROD NESTLE SA ; SOCIETE DES PRODUITS NESTLE S A VEVEY

Inventor(s): (std): BERTOLI CONSTANTIN ; HERUMUUTO TOREITORAA ; HOSSZU SACKETT KATALIN ; KATARIN HOSUZU SAKETSUTO ; KONSUTANTEIN BERUTORI ; MELACHOURIS NICHOLAS ; NIKORASU MERASHIYOURISU ; TRAITLER HELMUT

Designated states: AT BE CH DE DK ES FR GB IE IT LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT188729 E	20000115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT188729 E	20000515	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT188729 E	20050715	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT188729 E	20131021	PEXP		Calculated Patent Term Expiry	
DE69327568 D1	20010201	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69327568 T2	20000831	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69327568 T2	20131021	PEXP		Calculated Patent Term Expiry	
DK0597295 T3	20000522	LSGT	+	granted / extensions (spc,	

				cpc, pte)	
DK0597295 T3	20131021	PEXP		Calculated Patent Term Expiry	
EP0597295 A2	19940518	LSPB	+	published / reissued	
EP0597295 A2	19940518	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19931021
EP0597295 A3	19980408	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 19980219
EP0597295 B1	20000112	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0597295 B1	20000114	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0597295 B1	20000308	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : FRENCH
EP0597295 B1	20000401	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2141747 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0597295 B1	20001227	LSGT	+26N	NO OPPOSITION FILED	
EP0597295 B1	20011026	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20011026 YEAR OF FEE PAYMENT : 9
EP0597295 B1	20021021	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20021021
EP0597295 B1	20030723	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0597295 B1	20031013	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20031013 YEAR OF FEE PAYMENT : 11
EP0597295 B1	20031015	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20031015 YEAR OF FEE PAYMENT : 11
EP0597295 B1	20041021	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041021
EP0597295 B1	20041101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041101
EP0597295 B1	20050606	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP
EP0597295 B1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20101013 YEAR OF FEE PAYMENT : 18
EP0597295 B1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20101023

				PAID TO NATIONAL OFFICE	YEAR OF FEE PAYMENT : 18
EP0597295 B1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 18
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20111103 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20111115 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20111021 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20111012 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20111012 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20111011 YEAR OF FEE PAYMENT : 19
EP0597295 B1	20130430	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : SOC. DES PRODUITS *NESTLE S.A. EFFECTIVE DATE : 20121031
EP0597295 B1	20130515	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20130501
EP0597295 B1	20130531	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0597295 B1	20130626	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20121021
EP0597295 B1	20130726	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20130628
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121022
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121021
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : DE

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130501
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP0597295 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP0597295 B1	20130822	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69327568 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130501
EP0597295 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP0597295 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121021
EP0597295 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130501
EP0597295 B1	20140116	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20140116
EP0597295 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121022
EP0597295 B1	20131021	PEXP		Calculated Patent Term Expiry	
ES2141747 T3	20000401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2141747 T3	20000401	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 597295 COUNTRY OF REF DOCUMENT : ES
ES2141747 T3	20131021	PEXP		Calculated Patent Term Expiry	
JP3208236 B2	20010910	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3208236 B2	20040706	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3208236 B2	20050705	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250

JP3208236 B2	20060704	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3208236 B2	20070628	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3208236 B2	20070703	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3208236 B2	20080703	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3208236 B2	20080708	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3208236 B2	20090702	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3208236 B2	20090707	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 9
JP3208236 B2	20100706	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 10
JP3208236 B2	20110630	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 10
JP3208236 B2	20110705	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 11
JP3208236 B2	20120706	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3208236 B2	20131111	PEXP		Calculated Patent Term Expiry	
JP6209705 A2	19940802	LSPB	+	published / reissued	
US5395629 A	19950307	LSGT	+	granted / extensions (spc, cpc, pte)	
US5395629 A	19930318	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NESTEC S.A., SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:BERTOLI, CONSTANTIN; HOSSZU-SACKETT, KATALIN; MELACHOURIS, NICHOLAS; AND OTHERS; REEL/FRAME:006460/0779; SIGNING DATES FROM 19930211 TO 19930302
US5395629 A	19950223	LSGT	PAT1	Patented Case	
US5395629 A	19980824	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5395629 A	20020815	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5395629 A	20060811	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5395629 A	20121112	PEXP		Calculated Patent Term Expiry	