

Search history

Search 1: SFT=(process) (Results 1000000)
Search 2: cocoa (Results 84835)
Search 3: bean (Results 207822)
Search 4: grind (Results 109358)
Search 5: suspension (Results 1000000)
Search 6: 1 and 2 (Results 64465)
Search 7: 6 and 3 (Results 14138)
Search 8: 7 and 4 (Results 377)
Search 9: 8 and 5 (Results 182)
Search 10: butter (Results 134056)
Search 11: aroma* (Results 1000000)
Search 12: powder (Results 1000000)
Search 13: 9 and 10 (Results 92)
Search 14: 13 and 11 (Results 64)
Search 15: 14 and 12 (Results 62)
Search 16: polyphenolic (Results 5408)
Search 17: 16 and 15 (Results 6)
Search 18: 17 and pd<20150708 (Results 4)

Title: FOOD PRODUCTS HAVING ENHANCED **COCOA** POLYPHENOL CONTENT AND **PROCESSES** FOR PRODUCING THE SAME

Abstract: The invention provides food products, including confectioneries and chocolates, having conserved concentrations of polyphenols, and in particular **cocoa** polyphenols. The method of this invention avoids the significant and detrimental losses of polyphenols that occur during conventional manufacture by controlling the handling of ingredients in batching **processing** to provide a product having a significant amount of the **cocoa** polyphenol concentration present in the raw materials conserved in the finished product. Additionally, the production steps of milling/refining and conching may also be controlled and modified to provide the confectioneries of the present invention having conserved concentrations of **cocoa** polyphenols relative to the concentration of the polyphenols present in the starting ingredients. The **cocoa** polyphenol ingredient may be a **cocoa** ingredient, an extract of a **cocoa** ingredient (**beans**, liquor, or **powder**, etc.) or may be a synthesized derivative thereof, or may be a synthesized polyphenol compound or mixture of polyphenol compounds or derivative thereof.

Classifications:

International (IPC 8-9): A21D13/08 A21D2/36 A23B4/03 A23F3/34 A23F5/00 A23G A23G1/00 A23G1/02 A23G1/04 A23G1/06 A23G1/30 A23G1/32 A23G1/36 A23G1/44 A23G1/46 A23G1/48 A23G1/56 A23G3/00 A23G3/34 A23G3/44 A23G3/48 A23G3/54 A23G4/14 A23K1/14 A23K1/16 A23K1/18 A23K20/121 A23L A23L1/00 A23L1/03 A23L1/16 A23L1/18 A23L1/182 A23L1/187 A23L1/212 A23L1/22 A23L1/30 A23L1/304 A23L2/38 A23L2/52 A23L3/349 A23L3/3544 A23L3/105 A23P1/00 A61K31/352 A61K31/353 A61K31/765 A61K35/78 A61K36/00 A61K36/18 A61K36/185 A61K36/87 A61K47/06 A61P1/02 A61P29/00 A61P3/08 A61P31/04 A61P31/12 A61P35/00 A61P37/04 A61P39/06 A61P43/00 A61P7/00 A61P9/08 A61P9/10 A61P9/12 C11B1/04 C11B1/06 C11B1/10 (Advanced/Invention);

A23G1/02 A23G1/30 A23L2/38 A23L2/52 A23L3/349 A23L3/3544 A61K36/00 A61K36/18 A61K47/06 A61P29/00 A61P35/00 A61P43/00 A61P7/00 (Advanced/Non-invention);

A21D13/00 A21D2/00 A23G1/00 A23G1/02 A23G1/04 A23G1/30 A23G3/00 A23G3/34 A23K1/18 A23L1/16 A23L1/18 A23L1/182 A23L1/187 A23L1/212 A23L1/22 A23L1/30 A61K36/185 C11B1/00 (Core/Invention)

International (IPC 1-7): A01N65/00 A23B1/00 A23B4/03 A23C1/00 A23F3/34 A23F5/00 A23G1/00 A23G1/02 A23G3/00 A23L1/00 A23L1/10 A23L1/216 A23L1/28 A23L1/30 A23L1/36 A23L2/38 A23L2/52 A23P1/00 A23P1/06 A61K31/353 A61K31/765 A61K35/78 A61P1/02 A61P29/00 A61P3/08 A61P31/04 A61P31/12 A61P35/00 A61P37/04 A61P39/06 A61P43/00 A61P7/00 A61P9/08 A61P9/10 A61P9/12 C07D311/78 C11B1/04 C11B1/06 C11B1/10

CPC: A23K50/42 A21D2/36 A23G1/0006 A23G1/0009 A23G1/002 A23G1/0023 A23G1/02 A23G1/04 A23G1/06 A23G1/30 A23G1/36 A23G1/48 A23G1/56 A23G2200/00 C11B1/04 C11B1/06 C11B1/10 A21D2/36 A23G1/305 A23G3/48 A23G2200/14 A23L3/349 A23L3/3544 A23V2002/00 A23L7/122 A23L7/126 A23L7/17 A23L7/178 A23L7/196 A23L9/10 A23L19/09 A23L33/10 A23L33/105 A23L27/11 A23K50/48 A21D13/80

European: A21D13/08 A21D2/36 A21D2/36C A23G1/00P4 A23G1/00P4K A23G1/00P6 A23G1/00P8 A23G1/02 A23G1/04 A23G1/06 A23G1/30 A23G1/30C A23G1/36 A23G1/48 A23G1/56 A23G3/48 A23K1/18N2 A23K1/18N6 A23L1/164B A23L1/164C A23L1/182 A23L1/187 A23L1/18B2 A23L1/18C2 A23L1/212E A23L1/221E A23L1/30 A23L1/30B A23L3/349 A23L3/3544 C11B1/04 C11B1/06 C11B1/10 K23G200/00 K23G200/14 K23V2/00

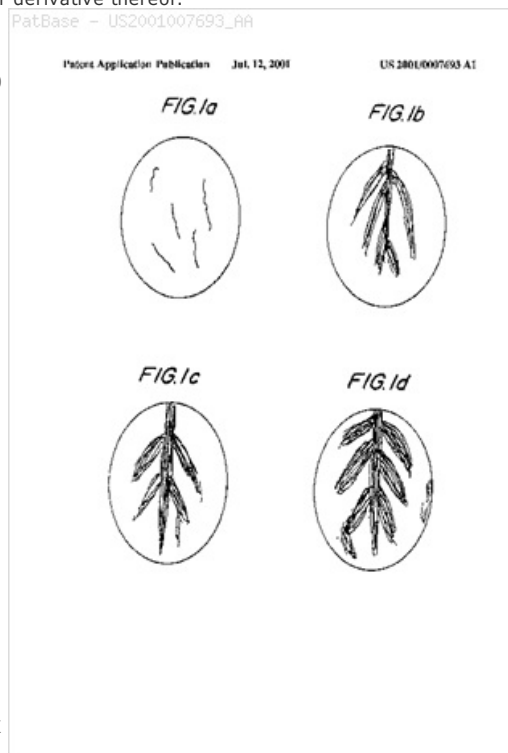
US: 424/195.1 424/725 424/757 424/757P 424/766 424/766P 424/769 424/776 424/779 424/779S 424/78.38 424/78.380P 426/241 426/241S 426/244 426/244P 426/3 426/3S 426/466 426/466S 426/479 426/481 426/481P 426/482 426/482S 426/495 426/542 426/593 426/593S 426/629 426/631 426/631P 426/631S 426/656 426/656S 426/66 426/660 426/660S 426/93 426/93P 514/453 514/456 514/456S 549/386 554/9 554/9S

JP F-Term: 4B014 4B014/GB05 4B014/GG06 4B014/GP15 4B014/GP23 4C086 4C086/AA03 4C086/AA04 4C086/BA08 4C086/FA02 4C086/GA17 4C086/NA05 4C086/NA14 4C086/ZA42 4C086/ZA45 4C086/ZA67 4C086/ZB11 4C086/ZB26 4C086/ZB35 4C086/ZC20 4C086/ZC41 4C086/ZC48 4C086/AB12 4C088/AC04 4C088/BA07 4C088/BA18 4C088/CA01 4C088/CA02 4C088/NA09 4C088/NA14 4C088/ZA42 4C088/ZA45 4C088/ZA67 4C088/ZB11 4C088/ZB22 4C088/ZB26 4C088/ZB35 4C088/ZC20 4C088/ZC33 4C088/ZC35 4C088/ZC61 4C201 4C206 4B014/GB01 4B014/GB04 4B014/GG11 4B014/GG14 4B014/GK02 4B014/GK07 4B014/GK11 4B014/GL06 4B014/GL10 4B014/GP01 4B017/LC03 4B017/LG14 4B018 4B018/MD57 4B018/ME04 4B018/ME06 4B018/ME09 4B117 4B117/LC04 4B117/LG17 4C088/BA08 4C088/BA14 4C088/BA32 4C088/CA08 4C088/CA14 4C088/CA25 4C088/ZA39 4C088/ZA51 4C088/ZB02 4C088/ZB09 4C088/ZB21 4C088/ZB33 4C088/ZC37 2B005 2B005/AA05 2B150 2B150/AA06 2B150/CE11 2B150/DD31 4B014/GP27 4B017/LP18 4B018/LB01 4B018/LB08 4B018/ME14 4B018/MF13 4B117/LG29 4B117/LP20 4C088/MA02 4C088/MA16 4C088/MA34 4C088/MA52 4C088/NA05 4C088/ZC02 4B014/GK12 4B014/GL03 4B014/GG18

JP F-Index: A23G1/02 A23G1/30 A23G1/48 A61K31/353 A61K35/78/C A61K35/78/X A61K36/185 A61P1/02 A61P31/04 A61P35/00 A61P39/06 A61P43/00/111 A61P9/10 A61P9/12 A23G1/00 A23G1/40 A23G1/46 A23G1/56 A23L1/30/B A23L2/00/F A23L2/38/C A23L2/52 A23L33/10 A61K131/00 A61P29/00 A61P3/08 A61P31/12 A61P37/04 A61P43/00/105 A61P7/00 A61P9/08 A61P9/10/101 A23K1/14 A23K1/16/304/C A23K1/18/A A23K10/12 A23K10/30 A23K50/40 A23L2/38/D A23L2/66 A23G1/42

Family:

Publication number	Publication date	Application number	Application date
AT440499 E	20090915	AT19990912456T	19990312
AU199743369 A1	19980326	AU19970043369	19970908
AU199930827 A1	19990927	AU19990030827	19990312
AU2003236474 AA	20030918	AU20030236474	20030826
AU2003236474 BB	20070308	AU20030236474	20030826
AU750621 B2	20020725	AU19970043369	19970908
BRPI9713194 A	20001031	BR1997PI13194	19970908
BRPI9713194 B1	20101130	BR1997PI13194	19970908
BRPI9908720 A	20020108	BR1999PI08720	19990312
BRPI9908720 B1	20101116	BR1999PI08720	19990312
CA2264822 AA	19990304	CA19972264822	19970908
CA2264822 C	20080325	CA19972264822	19970908



CA2323207 AA	20000907	CA19992323207	19990312
CA2323207 C	20110802	CA19992323207	19990312
CA2615046 AA	19980312	CA19972615046	19970908
CA2615046 C	20121030	CA19972615046	19970908
CA2795629 AA	19980312	CA19972795629	19970908
CA2795629 C	20150217	CA19972795629	19970908
CN1111357 C	20030618	CN19998005840	19990312
CN1140182 C	20040303	CN19971099430	19970908
CN1235518 A	19991117	CN19971099430	19970908
CN1301133 A	20010627	CN19998005840	19990312
DE69941328 D1	20091008	DE19996041328	19990312
EP1014804 A1	20000705	EP19970941469	19970908
EP1014804 A4	20000712	EP19970941469	19970908
EP1061812 A1	20001227	EP19990912456	19990312
EP1061812 A4	20020529	EP19990912456	19990312
EP1061812 B1	20090826	EP19990912456	19990312
EP1680963 A1	20060719	EP20050022015	19970908
EP1842431 A1	20071010	EP20060026215	19970908
EP2090177 A1	20090819	EP20090005072	19990312
HK1023038 A1	20040924	HK20000102297	20000417
HK1023038 B	20040924	HK20000102297	20000417
IL128848 A0	20000131	IL19970128848	19970908
IL128848 A1	20020814	IL19970128848	19970908
JP2001500016 T2	20010109	JP19980512992T	19970908
JP2002505860 T2	20020226	JP20000535212T	19990312
JP2003204758 A2	20030722	JP20020330663	20021114
JP2006034291 A2	20060209	JP20050209992	20050720
JP2009118859 A2	20090604	JP20090054719	20090309
JP2010187704 A2	20100902	JP20100131812	20100609
JP3977726 B2	20070919	JP20020330663	20021114
JP4732045 B2	20110727	JP20050209992	20050720
JP4759070 B2	20110831	JP20090054719	20090309
PL345704 A1	20020102	PL19990345704	19990312
RU2000125684 A	20021110	RU20000125684	19990312
RU2003132882 A	20050420	RU20030132882	20031111
RU2003132882 A	20050420	RU20030132882	19970908
RU2005134948 A	20070520	RU20050134948	19990312
RU2005134948 A	20070520	RU20050134948	20051110
RU2009106881 A	20100910	RU20090106881	20090226
RU2242880 C2	20041227	RU19990106793	19970908
RU2271115 C2	20060310	RU20000125684	19990312
RU2355179 C2	20090520	RU20030132882	19970908
RU2411742 C2	20110220	RU20050134948	19990312
RU99106793 A	20010310	RU19990106793	19970908
US2001007693 AA	20010712	US20010764193	20010117
US2002045002 AA	20020418	US20010981529	20011016
US2002064584 AA	20020530	US20010992932	20011105
US2002132018 AA	20020919	US20010011068	20011108
US2002136819 AA	20020926	US20010037079	20011109
US2003215558 AA	20031120	US20030436025	20030512
US2004058022 AA	20040325	US20030636931	20030807
US2005276893 AA	20051215	US20050129892	20050516
US2007134400 AA	20070614	US20060639129	20061214
US2007264417 AA	20071115	US20070745766	20070508
US2008069794 AA	20080320	US20070977996	20071026
US2008089997 AA	20080417	US20070926951	20071029
US2008131565 AA	20080605	US20070928509	20071030
US2008268133 AA	20081030	US20070926994	20071029
US6015913 A	20000118	US19960709406	19960906
US6194020 BA	20010227	US19980041326	19980312
US6312753 BA	20011106	US19990254353	19990809
US6372267 BA	20020416	US19990470394	19991222
US6399139 BB	20020604	US20010764193	20010117
US6558713 BB	20030506	US20010981529	20011016
US6582747 BB	20030624	US20010037079	20011109
US6599553 BB	20030729	US20010992932	20011105
US6673379 BB	20040106	US20010011068	20011108
US6737088 BA	20040518	US20010841925	20010425
US6887501 BB	20050503	US20030636931	20030807
US6905715 BA	20050614	US20030648131	20030826
US7678407 BB	20100316	US20070926994	20071029
US7968140 BB	20110628	US20030436025	20030512
US8541045 BB	20130924	US20060639129	20061214
WO9809533 A1	19980312	WO1997US15893	19970908
WO9945788 A1	19990916	WO1999US05414	19990312
WO9945788 C1	20000224	WO1999US05414	19990312

Priority:

US19960709406	19960906	CA19972264822	19970908	CA19972615046	19970908
CA19972795629	19970908	JP19980512992	19970908	JP20020330663	19970908
JP20050209992	19970908	JP20090054719	19970908	EP19970941469	19970908
US19970254353	19970908	WO1997US15893	19970908	US19980041326	19980312
AU19990030827	19990312	EP19990912456	19990312	RU20000125684	19990312
WO1999US05414	19990312	US19990254353	19990809	US19990441302	19991116
US19990470394	19991222	US20000481925	20000112	US20010764193	20010117
US20010841925	20010425	US20010981529	20011016	US20010992932	20011105
US20010011068	20011108	US20010037079	20011109	US20030436025	20030512
US20030636931	20030807	AU20030236474	20030826	US20030648131	20030826
US20050129892	20050516	US20060639129	20061214	US20070745766	20070508
US20070977996	20071026	US20070926951	20071029	US20070926994	20071029
US20070928509	20071030	CA20082264822	20080201	CA20122615046	20121128

Probable Assignee: MARS INC

Assignee(s): (std): BUCK MARGARET M ; CIPOLLA GIOVANNI G ; GEVER HANS M ; GEYER HANS M ; KEALEY KIRK S ; MARS INC ; MYERS MARY E ; ROMANCZYK LEO J JR ; HAMMERSTONE JOHN F JR ; NWOSU CHIGOZIE V ; ROMANCZYK JR LEO J ; HAMMERSTONE JR JOHN F ; SNYDER RODNEY M ; SCHMITZ HAROLD H ; WHITACRE ERIC J

Assignee(s): MARS INC 6885 ELM STREET MCLEAN VA 22101 3883 UNITED STATES OF ; MARS INCORP ; MARS INKORPOREJTED ; ROMANCZYK LEO J ; M AND M MARS ; HAMMERSTONE JOHN F

Inventor(s): (std): WITHACRE ERIC J ; WHITACRE ERIC J ; WHITACRE ERIC ; WHITACRE E J ; UAJTAKR EHRIC DZH ; SNYDER RODNEY M ; SNYDER R M ; SHMITTS GAROL D KH ; SCHMITZ HAROLD H ; ROMANZYK L J ; ROMANCZYR LEO J JR ; ROMANCZYK LEO J JR ; ROMANCZYK LEO J ; ROMANCZYK L J ; ROMANCZYK JR LEO J ; ROMANCZYK LEO ; VAJTAKR EHRIC DZH ; SNAJDER RODNI M ; NWOSU CHIGOZIE V ; NWOSU CHIGOZIE ; NWOSU C V ; NVOSU CHIGOZIE V ; MYERS MARY E ; MYERS MARY ; MYERS M E ; MEYERS MARY E ; ROMANCHUK LEO DZH ML ; MAJERZ MEHRI E ; MAJERS MEHRI EH ; KHAMMERSTOUN DZHON F ML ; KEALEY KIRK S ; KEALEY K S ; HAMMERSTONE JR JOHN F ; HAMMERSTONE JOHN FELIX ; HAMMERSTONE JOHN F JR ; HAMMERSTONE JOHN F ; GEYER HANS M ; GEYER HANS ; GEVER HANS M ; BUCK MARGARET M ; ROMANCZYK LEO J JR ; KILI KIRK S ; GEJER GANS M ; CIPOLLA GIOVANNI G

Inventor(s): CHIGOZIE V NWOSU ; C V NWOSU ; ERIC J WHITACRE ; E J WHITACRE ; RODNEY M SNYDER R ; MARY E MYERS M ; KIRK S KEALEY K ; HAROLD H SCHMITZ H ; HANS M GEYER H ; ERIC J WHITACRE E ; K S KEALEY ; JR ; JOHN F HAMMERSTONE JR ; HAROLD H SCHMITZ ; HANS M GEYER ; M E MYERS ; LEO J ROMANCZYR JR ; LEO J ROMANCZYK JR ; L J ROMANZYK ; L J ROMANCZYK ; KIRK S KEALEY ; RODNEY M SNYDER ; R M SNYDER ; MARY E MYERS ; SHMITTS GAROL'D KH. ; BUCK MARGARET ; CIPOLLA GIOVANNI ; GEVER HANS ; HAMMERSTONE JOHN ; HAMMERSTONE JOHN FJR ; KEALEY KIRK ; ROMANCZYK LEO ; ROMANCZYK LEO JJR ; SCHMITZ HAROLD ; SNYDER RODNEY ; RM SNYDER ; ME MYERS ; LJ ROMANZYK ; KS KEALEY ; EJ WHITACRE ; CV NWOSU

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; KIRBY EADES GALE BAKER; KEEN CELIA MARY; CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD WANCHAI; REINHOLD COHN AND PARTNERS; GIBBONS DEL DEO DOLAN GRIFFINGER AND VECCHIONE; INTELLECTUAL PROPERTY DOCKET ADMINISTRATOR, GIBBONS DEL DEO DOLAN GRIFFINGER AND VECCHIONE; INTELLECTUAL PROPERTY DOCKET ADMINISTRATOR GIBBONS DEL DEO DOLAN GRIFFINGER AND VECCHIONE; GIBBONS PC; NADA JAIN PC; CLIFFORD CHANCE US LLP; KELLEY MARGARET B; MARGARET B; CLIFFORD CHANCE LLP; NATH LAW GROUP; SHELDON M; NATH GOLDBERG AND MEYER

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 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

Title: GELATINOUS ELASTOMER COMPOSITIONS AND ARTICLES FOR USE AS FISHING BAIT**Abstract:** A soft gelatinous elastomer composition and article useful as fishing bait formed from one or a mixture of two or more of a poly(styrene-ethylene-butylene-styrene) block copolymer(s) and one or more plasticizers being in sufficient amounts to achieve a gel rigidity of from about 20 gram Bloom to about 800 gram Bloom**Classifications:****International (IPC 8-9):** A01K84/00 A01K85/00 A01K85/01 A01K97/04

A01N15/00 A01N25/00 A23L1/00 A23L1/05 A23L1/317 A23L1/325

A23L13/60 A23L17/00 A23L29/20 A46B1/00 A46B9/04 A47C17/00

A47C27/00 A47C7/00 A61B A61B18/20 A61B19/00 A61C15/00

A61C15/04 A61F A61F2/06 A61F2/78 A61F2/80 A61F9/007 A61F9/008

A61K31/70 A61K47/00 A61M5/00 A61M5/158 A63H1/32 A63H27/18

A63H33/18 B01D61/38 B21D26/02 B21D26/055 B21D37/20 B29C67/20

B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16

B60R21/26 B60R22/00 B61C15/00 B63B11/04 B63B9/08 B68G11/04

B68G5/00 C08F1/28 C08F175/00 C08F297/04 C08J5/02 C08K3/00

C08K5/01 C08K5/24 C08L1/00 C08L23/16 C08L25/10 C08L51/00

C08L53/00 C08L53/02 C08L53/05 C08L9/00 C09D11/02 C09J153/02

C09J7/02 C10G1/04 C21D8/02 C22C38/42 C22C38/48 C22C38/50

C22C38/54 C22C38/56 G01N33/57 H02N1/00

H02N2/00 (Advanced/Invention);

A61F2/78 A61M5/31 C08L101/00 (Advanced/Non-invention);

A01K85/00 A01K85/01 A01K97/04 A01N25/00 A23L1/05 A23L1/317 A23L1/325 A47C17/00 A47C27/00 A47C7/00 A61B18/20

A61B19/00 A61C15/00 A61F2/06 A61F2/50 A61F9/007 A61K31/70 A61K47/00 A61M5/00 A61M5/14 A63H1/00 A63H33/00

B01D61/38 B21D26/00 B21D37/20 B29C67/20 B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16 B60R21/26

B60R22/00 B63B11/00 B63B9/00 B68G5/00 C08F297/00 C08K3/00 C08K5/00 C08L1/00 C08L23/00 C08L25/00 C08L51/00

C08L53/00 C08L9/00 C09D11/02 C09J153/00 C09J7/02 C10G1/00 C21D8/02 C22C38/42 C22C38/48 C22C38/50 C22C38/54

C22C38/58 G01N33/56 G01N33/57 H02N1/00 H02N2/00 (Core/Invention);

A61F2/50 A61M5/31 C08L101/00 (Core/Non-invention)

International (IPC 1-7): A01K85/00 A01N25/00 A23L1/00 A41D13/00 A42B3/00 A47L13/08 A47L25/00 A47L25/08 A61B18/18

A61B18/20 A61C15/00 A61C15/04 A61F2/00 A61F2/78 A61F2/80 A61F9/007 A61F9/008 A61K47/00 A61K7/00 A62B17/00

A63H1/32 A63H27/00 A63H27/14 A63H27/18 A63H3/00 A63H33/00 A63H33/18 B21D26/02 B21K5/20 B32B27/04 B32B27/08

B32B27/12 B32B27/32 B32B5/02 B32B5/16 B60R21/16 B60R21/28 B61C15/00 B63C9/08 B64G6/00 C07C7/10 C08C53/00

C08J5/02 C08J51/00 C08K3/00 C08K3/20 C08K5/00 C08K5/01 C08K5/24 C08L1/00 C08L23/00 C08L3/00 C08L51/00 C08L53/00

C08L53/02 C08L73/00 C08L75/00 C08L9/00 G02B5/04 G02B6/00 H02N1/00

CPC: A01K85/00 C08L23/06 C08L23/30 A61F2/7812 A61F2/80 A01K85/01 B60R2021/23504 Y10S297/01 Y10S297/04 A61K8/8117

A61K8/90 A61K2800/87 A61Q11/00 Y10S5/909 A46B9/005 A46B9/065 A46B15/0014 C08L2205/035 A01K97/045 A61K8/042

B01D61/38 C21D8/0226 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/58 Y10T428/2998 C10G1/04 Y10T428/2938

Y10T428/298 A63H1/32 Y10T428/169 Y10T428/1334 A61M2005/3109 C08L101/005 C08L2205/06 Y10T428/31909 Y10T428/31931

Y10T428/31645 Y10T428/31696 Y10T428/31989 Y10T442/20 Y10T442/2025 Y10T442/2213 A61C15/00 B21D26/055 B32B27/00

C08F297/044 A63H33/185 A61F2/7843 C08F297/02 C08F297/04 C08L23/02 C08L53/005 C08L91/00 C08L51/00 A61C15/041

C08L53/00 C08K5/0016 Y10T428/249991 Y10T428/249992 Y10T428/249993 Y10T428/249952 Y10T428/249958 A46B9/04

A46B9/028 A46B15/0012 B60R21/235 C08K5/01 A46B15/0002 A46B2200/1066 A23L17/70 A23L13/67 A23L29/284 B21D37/20

Y10S72/709 C08K3/013 C08L2666/02 C08L2666/24 C08L2205/03 C08L53/025 C09J153/025 C09J153/02 C08L53/02 A61B18/22

A61B2018/0019 A61B2018/2035 A61F9/008 A61F9/00821 A61F2009/00863

European: A01K85/00 A01K85/01 A01K97/04B A23L1/0562B A23L1/317D A23L1/325E A46B15/00B A46B15/00B2D A46B9/02E

A46B9/04 A61C15/00 A61C15/04B A61F9/008 A61F9/008C A63H1/32 A63H33/18W B01D61/38 B21D26/055 B21D37/20

B32B27/00 B60R21/235 C08F297/02 C08F297/04 C08F297/04K C08K5/00P1 C08K5/01 C08L23/02 C08L51/00 C08L53/00

C08L53/00B C08L53/02 C08L53/02B C08L91/00 C09J153/02 C09J153/02B C10G1/04 C21D8/02D2 C22C38/42 C22C38/48

C22C38/50 C22C38/54 C22C38/58 K46B200/10G K61B18/20J K61F2/78C K61F2/78C4 K61F2/80 K61F9/008L1 K61M5/31A3E2

L60R21/235M M08K3/00P5 M08L101/00B M08L205/03 M08L205/06 M08L23/02 M08L23/06 M08L23/30 M08L91/00

US: 128/112.1 128/113.1 128/117.1 128/206.12 128/206.21 128/408 128/857 132/308 132/321 132/323 132/329 135/68 135/71

135/72 135/82 15/104.002 15/104.2 15/110 15/167.1 15/207.2 15/210.1 15/214 15/40.02 174/137A 174/137B 180/271 2/2.11

2/2.15 2/2.16 2/211 2/215 2/216 2/410 2/411 2/423 2/424 2/428 2/455 2/456 2/457 2/458 2/54 2/69 2/79 204/606 204/607

264/109 264/113 264/122 264/211.13 264/46.4 264/464 264/53 280/728.1 280/728.2 280/740 280/741 280/742 280/742P

297/391 297/392 297/394 297/397 297/411.2 297/423.1 297/DIG.1 297/DIG.4 310/309 310/309P 36/153 36/37 36/43 385/144

424/401 424/401P 424/405 424/405P 424/439 424/439P 424/448 424/484 426/1 426/573 427/162 428/301.4 428/308.4 428/319.3

428/319.7 428/319.9 428/35.2 428/352 428/378 428/401 428/407 428/441 428/462 428/515 428/52 428/521 428/537.1 428/688

43/26.2 43/35 43/42 43/42.24 43/42.26 43/42.32 43/42.33 43/42.34 43/42S 43/43.33 433/216 44/271 441/102 441/102S 442/59

442/62 442/85 442/85P 446/253 446/254 446/34 446/385 446/46 446/48 446/486 446/490 446/491 446/61 446/62 446/66 5/632

5/636 5/640 5/652 5/653 5/654 5/655.5 5/655.9 5/724 5/909 52/447.4 521/139 521/140 521/148 521/50 521/54 523/105

523/113 523/218 523/218S 524/187 524/226 524/232 524/261 524/270 524/271 524/272 524/274 524/275 524/277 524/284

524/313 524/315 524/366 524/375 524/379 524/394 524/399 524/400 524/450 524/474 524/476 524/481 524/484 524/485

524/486 524/487 524/490 524/491 524/505 524/507 524/508 524/513 524/515 524/543 524/543S 524/549 524/571 524/571S

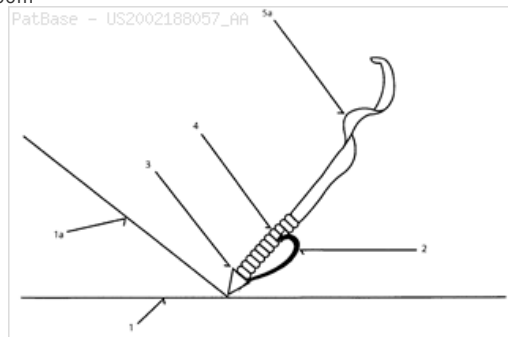
524/575 524/578 524/81 524/98 525/148 525/240 525/240P 525/241 525/314 525/476 525/490 525/505 525/521 525/8 525/89

525/95 525/959 525/98 525/99 56/52 56/559 56/550 57/24 585/833 601/141 602/1 602/41 602/41P 602/61 602/62 602/63

604/262 604/263 604/408 604/410 604/411 606/16 606/16P 606/2 606/2S 623/1.11 623/1.110S 623/11 623/11.11 623/13.12

623/16.11 623/18 623/20 623/20.14 623/21.11 623/23.4 623/23.41 623/23.58 623/27 623/33 623/36 623/37 623/59 623/61

623/63 623/8 66/171 66/178R 66/184 66/185 66/187 701/45 72/60 72/63 72/709 76/107.1

JP F-Term: 4C026 4C026/AA02 4C026/AA03 4C026/FF17 4C026/HH02 4C026/HH13 4C026/HH21 4C078**JP F-Index:** A61B17/36/350 A61B18/22 A61F9/00/502 A61F9/00/511 A61F9/008/120/C A61F9/008/120/Z A61F9/008/150**Locarno class:** 24/58**Family:**

Publication number	Publication date	Application number	Application date
AU199749774 A1	19980424	AU19970049774	19970930
BRPI9711582 A	20000118	BR1997P111582	19970930
CA2267441 AA	19990329	CA19972267441	19970930
CN1579352 A	20050216	CN200410070350	20040729
EP1006933 A1	20000614	EP19970912657	19970930
HK1071843 A1	20050805	HK20050104608	20050601
HK1071843 A3	20050805	HK20050104608	20050601
JP2005046247 A2	20050224	JP20030204428	20030731
US2002188057 AA	20021212	US20020199361	20020720
US2003004253 AA	20030102	US20010896047	20010630

US2003083422 AA	20030501	US20020299073	20021118
US2003122446 AA	20030703	US20020273828	20021017
US2003130407 AA	20030710	US20020199364	20020720
US2003134958 AA	20030717	US20020334542	20021231
US2003186603 AA	20031002	US20030420488	20030421
US2004018223 AA	20040129	US20020199363	20020720
US2004018272 AA	20040129	US20020199362	20020720
US2004063833 AA	20040401	US20030613567	20030702
US2004068040 AA	20040408	US20030420490	20030421
US2004070187 AA	20040415	US20030675509	20030930
US2004072942 AA	20040415	US20030420487	20030421
US2004116591 AA	20040617	US20030420491	20030421
US2004146541 AA	20040729	US20030746196	20031225
US2004225044 AA	20041111	US20030420493	20030421
US2004249056 AA	20041209	US20030420489	20030421
US2005008669 AA	20050113	US20040912464	20040804
US2005027288 AA	20050203	US20040896047	20040722
US2005184619 AA	20050825	US20030420492	20030421
US2007197949 AA	20070823	US20070787257	20070412
US2007238835 AA	20071011	US20070810584	20070605
US4369284 A	19830118	US19800134977	19800328
US4618213 A	19861021	US19840572172	19840118
US5153254 A	19921006	US19880211426	19880624
US5239723 A	19930831	US19920934027	19920824
US5262468 A	19931116	US19910705711	19910523
US5324222 A	19940628	US19920876118	19920429
US5334646 A	19940802	US19920957290	19921006
US5334646 B1	19980908	US19920957290	19921006
US5336708 A	19940809	US19920935540	19920824
US5467626 A	19951121	US19930130545	19931001
US5475890 A	19951219	US19930114688	19930830
US5508334 A	19960416	US19930152735	19931115
US5624294 A	19970429	US19930152734	19931115
US5633286 A	19970527	US19940288690	19940811
US5633286 B1	20001010	US19940288690	19940811
US5638724 A	19970617	US19950469960	19950606
US5655947 A	19970812	US19910705096	19910521
US5661992 A	19970902	US19950467198	19950606
US5760117 A	19980602	US19950581191	19951229
US5868597 A	19990209	US19940256235	19940627
US5884639 A	19990323	US19970819675	19970317
US5938499 A	19990817	US19970845809	19970429
US5962572 A	19991005	US19950581125	19951229
US6033283 A	20000307	US19960211781	19960514
US6050871 A	20000418	US19970909487	19970812
US6117176 A	20000912	US19970863794	19970527
US6148830 A	20001121	US19960719817	19960930
US6161555 A	20001219	US19990230940	19990203
US6324703 BA	20011204	US19970984459	19971203
US6333374 BA	20011225	US19970954424	19971020
US6420475 BA	20020716	US19990274498	19990328
US6552109 BA	20030422	US19960612586	19960308
US6552109 C1	20110705	US19960612586	19960308
US6627275 BA	20030930	US19980130545	19980808
US6794440 BB	20040921	US20020199364	20020720
US6867253 BA	20050315	US20000721213	20001121
US6867253 C1	20110607	US20000721213	20001121
US6909220 BB	20050621	US20020273828	20021017
US7067583 BB	20060627	US20030420493	20030421
US7093316 BB	20060822	US20030613567	20030702
US7093599 BB	20060822	US20030420491	20030421
US7105607 BB	20060912	US20030420490	20030421
US7108873 BB	20060919	US20020199363	20020720
US7134236 BB	20061114	US20020199361	20020720
US7134929 BB	20061114	US20030420488	20030421
US7159259 BB	20070109	US20020334542	20021231
US7193002 BB	20070320	US20030420487	20030421
US7208184 BB	20070424	US20020199362	20020720
US7222380 BB	20070529	US20030420489	20030421
US7226484 BB	20070605	US20040912464	20040804
US7234560 BB	20070626	US20030675509	20030930
US7290367 BB	20071106	US20030746196	20031225
US7344568 BB	20080318	US20030420492	20030421
US7344568 C1	20110809	US20030420492	20030421
US7661164 BB	20100216	US20070787257	20070412
US7930782 BB	20110426	US20070810584	20070605

WO9513851 A1	19950526	WO1994US04278	19940419
WO9600118 A1	19960104	WO1994US07314	19940627
WO9814133 A1	19980409	WO1997US17534	19970930

Priority:

US19770778343	19770317	US19770815315	19770713	US19780916731	19780619
US19800134977	19800328	US19830458703	19830117	US19840572172	19840118
US19860921752	19861021	US19880211426	19880624	US19900527058	19900521
US19900527085	19900521	US19910705096	19910521	US19910705711	19910523
US19920876118	19920429	US19920934027	19920824	US19920935540	19920824
US19920957290	19921006	US19930114688	19930830	US19930130545	19931001
US19930152735	19931115	US19930152734	19931115	WO1994US04278	19940401
US19940211781	19940419	WO1994US04278	19940419	US19940256235	19940627
WO1994US07314	19940627	US19940288690	19940811	US19940719817	19940930
US19950469960	19950606	US19950467198	19950606	US19950581188	19951229
US19950581191	19951229	US19950581125	19951229	US19960612586	19960308
US19960211781	19960514	US19960665343	19960617	US19960719817	19960930
US19970819675	19970317	US19970845809	19970429	US19970863794	19970527
US19970909487	19970712	US19970130545	19970808	US19970909487	19970812
US19970230940	19970930	WO1997US17534	19970930	US19970954424	19971020
US19970984459	19971203	US19980130545	19980808	US19990230940	19990203
US19990274498	19990322	US19990274498	19990323	US19990274498	19990328
US19990285809	19990328	US19990285809	19990401	US19990412886	19991005
US19990421886	19991005	US19990412887	19991005	US20000517230	20000302
US20000721213	20001121	US20010896047	20010630	US20010721213	20011121
US20020420489	20020421	US20020199364	20020720	US20020199361	20020720
US20020199362	20020720	US20020199363	20020720	US20020993361	20020720
US20020273828	20021017	US20020299073	20021118	US20020334542	20021231
US20030420489	20030421	US20030420488	20030421	US20030420492	20030421
US20030420491	20030421	US20030420487	20030421	US20030420493	20030421
US20030420490	20030421	US20030420089	20030422	US20030420489	20030422
US20030613567	20030702	JP20030204428	20030731	US20030675509	20030930
US20030746196	20031225	WO1994US04278	20040419	US20040896047	20040722
US20040912464	20040804	US20070787257	20070412	US20070810584	20070605

Probable Assignee: APPLIED ELASTOMERICS INC

Assignee(s): (std): APPLIED ELASTOMERICS INC ; BOEING CO ; CHEN JOHN Y ; TOPCON CORP

Assignee(s): TOPCON KK ; THE BOEING COMPANY ; TOPCON 75 1 HASUNUMA CHO ITABASHI KU TOKYO KK ; KABUSHIKI KAISHA TOPCON ; PATENT AND LICENSE OFFICE ; ALLIED ELASTOMERICS INC

Inventor(s): (std): WATARU OYAGI ; SAGEHASHI HIDEO ; OYAGI WATARU ; NOMURA KAZUHISA ; NEMOTO IORI ; KAZUHISA NOMURA ; IORI MOTOGI ; CHEN JOHN YOUNGFU ; CHEN JOHN YOUNG FU ; CHEN JOHN Y ; SANDERS DANIEL G

Inventor(s): JOHN Y CHEN ; CHEN JOHN ; OYAGI WATARU ; MOTOGI IORI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; LUNG TIN INT PATENT AND TRADEMARK AGENT LTD ROOM 1512 15 F WEST; APPLIED ELASTOMERICS INC; ARMSTRONG KRATZ QUINTOS HANSON AND BROOKS LLP; JOHN Y CHEN APPLIED ELASTOMERICS INC

Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GE GR HU IE IT JP KR LU MC NL NO NZ PL PT RO RU SE US VN

Title: ANTIFUNGAL PAINTS AND COATINGS

Abstract: Antifungal and antibacterial peptides, polypeptides and proteins as antifungal additives for paint and other coatings are disclosed, along with antifungal compositions, and coated surfaces with antifungal properties. Methods of using the coatings for treating and/or inhibiting growth of mold, mildew and other fungi and bacteria on objects such as building materials that are susceptible to such infestation are also disclosed.

Classifications:

International (IPC 8-9): A01N A01N25/00 A01N33/08 A01N37/18 A01N37/44 A01N37/46 A01N63/00 A01N63/02 A01P1/00 A01P3/00 A61F13/00 A61K31/74 A61K38/00 A61K38/08 A61K38/10 A61K47/48 B05D3/00 B05D5/00 B08B3/00 B32B3/12 B32B5/02 B65D81/00 B65D85/84 C07K14/00 C07K14/435 C07K17/00 C07K2/00 C07K5/08 C07K5/10 C07K7/00 C07K7/06 C07K7/08 C08G63/91 C08L89/00 C09D C09D133/00 C09D189/00 C09D201/00 C09D5/14 C09D5/16 C09D7/00 C09D7/12 C09J11/08 C12N C12N11/16 C12N9/00 C12N9/16 C12N9/18 C12N9/20 C12N9/48 C12N9/76 C12N9/78 C12Q1/00 C12Q1/34 C12Q1/527 C12S9/00 (Advanced/Invention); A01N33/00 A01N37/18 A01N37/44 A01N63/00 A01P1/00 A01P3/00 A61F13/00 A61K47/48 B05D3/00 C07K14/00 C07K5/00 C07K7/00 C08G63/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16 C09D7/12 C09J11/00 C12N11/00 C12N9/00 C12N9/16 C12N9/48 C12N9/76 C12N9/78 (Core/Invention); A01N C09D (Subclass/Invention)

International (IPC 1-7): A61K38/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16

CPC: A01N37/46 C07K14/4723 A01N63/00 B08B17/02 C07K7/06 C07K7/08 C09D5/1693 C09D189/00 C12Q1/34 C12Q1/44 C12Q1/61 C09D5/1637 Y10T428/24149 Y10T442/2279 C09D5/1668 C09D5/008 D06M16/003 C09D7/63 C09D7/70 C09D7/65 C09D5/1625 A01N63/02 C08L89/00 C09D5/14 B29C48/30 B29C48/32

European: A01N37/46 A01N63/00 A01N63/02 B08B17/02 C07K7/06 C07K7/08 C09D5/00F C09D5/14 C09D5/16C3K C09D5/16C7 C09D5/16R C09D7/12D4 C09D7/12M C09D7/12S C12Q1/34 C12Q1/44 C12Q1/61 D06M16/00B M08L89/00

US: 106/124.1 106/124.100S 106/15.05 106/15.050P 106/15.050S 106/18.32 106/18.320P 106/18.320P 106/18.320S 106/2 106/2P 106/4 106/4S 106/501.1 106/501.100S 134/26 134/26P 206/216 206/216S 206/524.1 206/524.100S 222/1 222/1S 424/404 424/409 424/422 424/422P 424/426 424/426P 424/78.09 424/94.2 424/94.200P 424/94.61 424/94.64 427/331 427/331S 427/352 427/352S 427/414 427/414P 428/116 428/116S 435/174 435/174S 435/18 435/183 435/183S 435/18P 435/196 435/196S 435/197 435/197S 435/198 435/198S 435/212 435/212S 435/213 435/213S 435/227 435/227S 435/264 435/264S 435/4 435/4S 442/93 442/93S 514/1.1 514/1.100P 514/12 514/16 514/17 514/18 514/2 514/2.4 514/2.400S 514/21.4 514/21.5 514/21.8 514/3.3 514/3.300P 514/3.300S 521/55 521/55P 523/122 523/122S 524/17 524/17S 524/590 525/54.1 525/54.100S 530/324 530/324S 530/326 530/326S 530/327 530/327S 530/329 530/329S 530/330 530/330S 530/331 530/331S 530/350 530/350S

PatBase - W005007758_A2

```
WD 20040720          PC:1US2004091718

SEQUENCE LISTING

<110> Reactive Surfaces, Ltd.
<130> Antifungal Paints and Coatings
<160> RACT-50451
<180> 68/689.334
<191> 2003-07-03
<192> Unknown
<193> 2004-07-03
<160> 138
<170> PatentIn version 3.1
<210> 1
<211> 6
<212> PPT
<213> peptide
<220>
<221> Misc_Feature
<222> (1)-(10)
<223> n = anything
<400> 1
Xaa Xaa Xaa Xaa Arg Phe
1          5

<210> 2
<211> 6
<212> PPT
<213> peptide
<220>
<221> Misc_Feature
<222> (1)-(10)
<223> n = anything
<400> 2
Xaa Xaa Xaa Xaa Phe Glu
1          5

<210> 3
<211> 6
<212> PPT
<213> peptide
<220>
<221> Misc_Feature
<222> (1)-(10)
<223> n = anything
<400> 3
Xaa Xaa Xaa Xaa Lys Phe
1          5

1/17
```

Family:

Publication number	Publication date	Application number	Application date
AU2004257205 AA	20050127	AU20040257205	20040706
AU2004257205 BB	20101216	AU20040257205	20040706
AU2011201077 AA	20110407	AU20110201077	20110310
EP1644452 A2	20060412	EP20040756724	20040706
EP1644452 B1	20161214	EP20040756724	20040706
EP2431429 A2	20120321	EP20110168727	20040706
EP2431429 A3	20120627	EP20110168727	20040706
HK1083693 A1	20060707	HK20060104810	20060421
HK1083693 A3	20060707	HK20060104810	20060421
HK1083693 B	20180223	HK20060104810	20060421
HK1156652 A1	20120615	HK20110110948	20111013
HK1156652 A3	20120615	HK20110110948	20111013
IL173658 A0	20090211	IL20060173658	20060209
IL173658 A1	20120430	IL20040173658	20040706
IL218128 A0	20120329	IL20040218128	20040706
IL218129 A0	20120329	IL20120218129	20120215
IL218129 A1	20130930	IL20040218129	20040706
SG179021 A1	20120427	SG20120015939	20100915
US2005058689 AA	20050317	US20040884355	20040702
US2006141003 AA	20060629	US20060368086	20060303
US2009308277 AA	20091217	US20090543072	20090818
US2009308278 AA	20091217	US20090543172	20090818
US2009312232 AA	20091217	US20090543145	20090818
US2009312233 AA	20091217	US20090543160	20090818
US2009312234 AA	20091217	US20090543199	20090818
US2009312261 AA	20091217	US20090543187	20090818
US2009312267 AA	20091217	US20090543090	20090818
US2009312268 AA	20091217	US20090543117	20090818
US2009312269 AA	20091217	US20090543132	20090818
US2010210745 AA	20100819	US20100696651	20100129
US2010233146 AA	20100916	US20090474921	20090529

US2011070376 AA	20110324	US20100882563	20100915
US2011219982 AA	20110915	US20110089479	20110419
US2011224131 AA	20110915	US20110089459	20110419
US2011240064 AA	20111006	US20110069864	20110323
US2011250626 AA	20111013	US20110085061	20110412
US2011269672 AA	20111103	US20110173684	20110630
US2011319320 AA	20111229	US20110173243	20110630
US2012010128 AA	20120112	US20110186734	20110720
US2012010129 AA	20120112	US20110186794	20110720
US2012017802 AA	20120126	US20110232501	20110914
US2012024191 AA	20120202	US20110233088	20110915
US2012028884 AA	20120202	US20110232659	20110914
US2012028885 AA	20120202	US20110233195	20110915
US2012028886 AA	20120202	US20110233223	20110915
US2012097194 AA	20120426	US20110004279	20110111
US2014083324 AA	20140327	US20130093347	20131129
US2014196631 AA	20140717	US20140156007	20140115
US2015191607 AA	20150709	US20130097128	20131204
US7932230 BB	20110426	US20090543199	20090818
US7939500 BB	20110510	US20090543145	20090818
US8497248 BB	20130730	US20110089479	20110419
US8618066 BA	20131231	US20070865514	20071001
WO05007758 A2	20050127	WO2004US21711	20040706
WO05007758 A3	20050915	WO2004US21711	20040706
WO05007758 A8	20160317	WO2004US21711	20040706
WO11034931 A2	20110324	WO2010US48946	20100915
WO11034931 A3	20110811	WO2010US48946	20100915

Priority:

US20020409102P	20020909	US20030485234P	20030703	US20030655345	20030904
US20040884355	20040702	AU20040257205	20040706	EP20040756724	20040706
WO2004US21711	20040706	US20060368086	20060303	US20060827531P	20060929
US20070976676P	20071001	US20070865514	20071001	US20080057705P	20080530
US20080058025P	20080602	US20080243755	20081001	US20090148502P	20090130
US20090474921	20090529	WO2009US45692	20090529	US20090543072	20090818
US20090543090	20090818	US20090543117	20090818	US20090543132	20090818
US20090543172	20090818	US20090543145	20090818	US20090543160	20090818
US20090543199	20090818	US20090543187	20090818	US20090242485P	20090915
US20100293897P	20100111	US20100696651	20100129	US20100316504P	20100323
US20100322910P	20100412	US20100882563	20100915	WO2010US48946	20100915
US20110004279	20110111	AU20110201077	20110310	US20110069864	20110323
US20110085061	20110412	US20110089459	20110419	US20110089479	20110419
US20110173243	20110630	US20110173684	20110630	US20110186734	20110720
US20110186794	20110720	US20110232501	20110914	US20110232659	20110914
US20110233088	20110915	US20110233195	20110915	US20110233223	20110915
US20130093347	20131129	US20130097128	20131204	US20140156007	20140115

Probable Assignee: REACTIVE SURFACES LTD LLP

Assignee(s): (std): MCDANIEL C ; MCDANIEL C STEVEN ; MCDANIEL STEVEN C ; REACTIVE SURFACES LTD ; REACTIVE SURFACES LTD LLP ; STEVEN MCDANIEL C ; REACTIVE SURFACE LTD ; RAWLINS JAMES W ; WALES MELINDA ; WILLIAMS ERIC B

Assignee(s): STEVEN C MCDANIEL ; C MCDANIEL ; C STEVEN MCDANIEL

Inventor(s): (std): MCDANIEL STEVEN C ; WILLIAMS ERIC B ; WILLIAMS ERIC ; WALES MELINDA E ; WALES MELINDA ; RAWLINS JAMES W ; RAWLINS JAMES ; MCDANIEL C S ; CIPI PIRRO ; CARVAJAL JUAN CARLO ; BRAASCH DWAIN E ; MCDANIEL C STEVEN

Inventor(s): C STEVEN MCDANIEL ; MCDANIEL C ; STEVEN MCDANIEL

Agent(s): WRAYS; MARCHANT MICHAEL JOHN; ELLA CHEONG HONG KONG LTD; SPRUSON AND FERGUSON HONG KONG LTD; DEACONS; SANFORD TCOLB AND CO; C STEVEN MCDANIEL MCDANIEL AND ASSOCIATES PC; DAFFER MCDANIEL LLP; C STEVEN MCDANIEL C O DAFFER MCDANIEL LLP; RISSMAN HENDRICKS AND OLIVERIO LLP; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; MCDANIEL AND ASSOCIATES PC; MCDANIEL C STEVEN

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 YU ZA ZM ZW

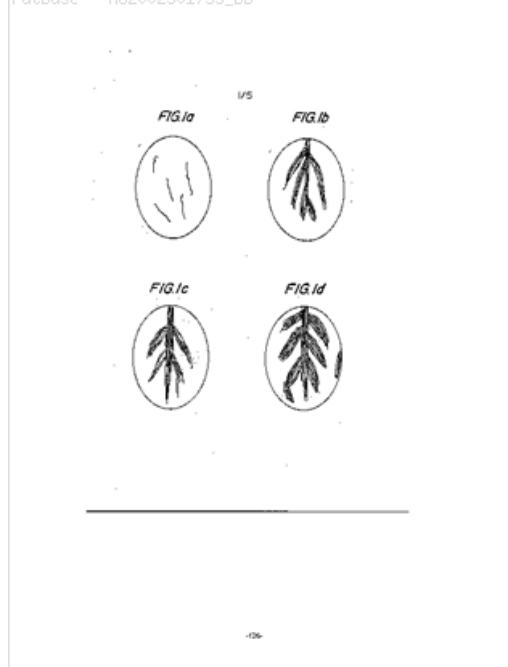
Title: **Cocoa** components, edible products having enhanced polyphenol content, methods of making same and medical uses

Abstract: **Cocoa** components having enhanced levels of **cocoa** polyphenols, **processes** for producing the **cocoa** components while conserving a significant amount of the **cocoa** polyphenols, compositions containing the **cocoa** components or the **cocoa** polyphenols, methods of using the **cocoa** components or the **cocoa** polyphenols for improving the health of a mammal are described. The **cocoa** components include partially fully defatted **cocoa** solids, **cocoa** nibs fractions derived therefrom, **cocoa** polyphenol extracts, **cocoa butter**, chocolate liquors, mixtures thereof. The invention provides **processes** for extracting fat from **cocoa beans** for otherwise **processing cocoa beans** to yield a **cocoa** component having conserved concentrations of polyphenols relative to the starting materials.

Classifications:

International (IPC 8-9): A23B4/03 A23F5/00 A23L1/00 A23P1/00
C11B1/04 (Advanced/Invention);
A23B4/03 A23F5/00 A23L1/00 A23P1/00 C11B1/00 (Core/Invention)

PatBase - AU2002301733_BB



Family:

Publication number	Publication date	Application number	Application date
AU2002301733 AA	20030306	AU20020301733	20021023
AU2002301733 BB	20070426	AU20020301733	20021023
AU2002301733 BH	20100422	AU20020301733	20021023
AU2007203454 AA	20070816	AU20070203454	20070725
AU2007203454 BB	20101202	AU20070203454	20070725

Priority:

US19960709406 19960906 US19960709406 19960906 AU19970043369 19970908
AU20020301733 20021023 AU20070203454 20070725

Probable Assignee: MARS INC

Assignee(s): (std): MARS INC

Inventor(s): (std): HAMMERSTONE JR JOHN ; ROMANCZYK JR LEO J ; WHITACRE MARY E ; WHITACRE ERIC ; SNYDER RODNEY M ; SCHMITZ HAROLD H ; ROMANCZYK LEO J ; MYERS MARY E ; KEALEY KIRK S ; ROMANCZYK LEO J JR ; HAMMERSTONE JOHN F JR ; GEYER HANS M ; HAMMERSTONE JOHN JR

Inventor(s): ERIC WHITACRE ; LEO J ROMANCZYK JR ; JR ; JOHN HAMMERSTONE JR ; JOHN F HAMMERSTONE JR ; HAROLD H SCHMITZ ; HANS M GEYER ; MARY E WHITACRE ; MARY E MYERS ; LEO J ROMANCZYK ; KIRK S KEALEY ; RODNEY M SNYDER ; WHITACRE ERIC J ; HAMMERSTONE JR JOHN F

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