

Search history

Search 1: extru* and pet and chew and (groove or opening or orific* or hole) and (heat* or temperature) and shear* (Results 126)
Search 2: 1 and (flour or cereal or corn or wheat) and density (Results 75)
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Title: DENTAL CARE **PET FOOD**

Abstract: A dried **pet food** which is able to mechanically clean the teeth of **pets** when **chewed**. The dried **pet food** is based on a matrix of a denatured protein source and a gelatinized carbohydrate source. Insoluble fiber is bound within the matrix. Further, a humectant is included within the gelatinized matrix is an amount sufficient for reducing the brittleness of the dried **pet food**.

Classifications:

International (IPC 8-9): A01K1/00 A23J1/00 A23J3/00 A23K1/00 A23K1/14 A23K1/16 A23K1/18 A23K1/20 A23L1/05 A23P1/12 A61K7/16 A61K8/60 A61K8/64 A61K8/73 A61K8/97 A61P1/02

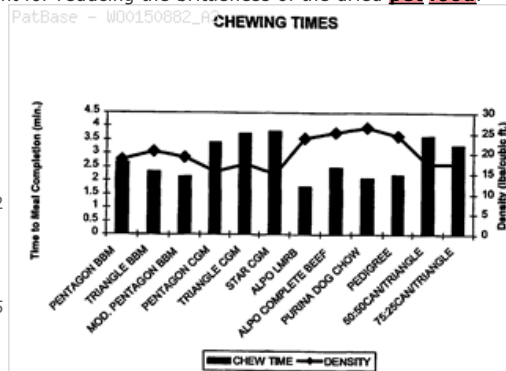
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European: A23K1/00B2 A23K1/16G A23K1/18N2 A61K8/02N4 A61K8/64 A61K8/97 A61Q11/00

US: 426/2 426/2P 426/516 426/516S 426/573 426/573S 426/623 426/635 426/635P 426/656 426/656S 426/658 426/805 426/805S

**Family:**

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Probable Assignee: NESTEC SA

Assignee(s): (std): DES PRODUITS NESTLE SA SOC ; CUPP CAROLYN JEAN ; DIXON DAN ; DES PRODUITS NESTLE S A SOC ; D PRODUITS NESTL SA SOC ; DE PRODUITS NESTLE SA SOC ; SOC D PRODUITS NESTL SA ; SCHNELL SCOTT ; SMITHEY SHERI LYNN ; GERHEART LYNN ANN ; NESTEC SA ; NESTLE SA ; NESTEC LTD ; SOCIETE DES PRODUITS NESTLE SA ; SOCIETES DES PRODUITS NESTLE S ; ANDERSON DONNA ELIZABETH

Assignee(s): CUPP CAROLYN ; CUPP CAROLYN J ; ANDERSON DONNA E ; SOCIETE DES PRODUITS NESTLE S A VEVEY ; SOS'ETE DE PRODJUI NESTLE S.A. ; SOS ETE DE PRODJUI NESTLE SA ; SOCIETES DES PRODUITS NESTLE SA ; SOS ETE DE PRODJUI NESTLE S A ; SOCIETE DE PRODUITS NESTLE S A ; SOCIETES DES PRODUITS NESTLE S A ; SOC DES PRODUITS NESTLE SA ; SOC PROD NESTLE SA ; PROD NESTLE SA SOC ; SOCITHTH DES PRODUITS NESTLTH SA ; SOCIETE DES PRODUITS NESTLE S A ; SMITHEY SHERI L ; GERHEART LYNN A ; NESTEC S A ; DES PRODUITS NESTLE SOC SA

Inventor(s): (std): ELIZABETH ANDERSON DONNA ; GERHEART LYNN ; GERHEART LYNN A ; GERHEART LYNN ANN ; GERKHART LINN EHNN ; JEAN CUPP CAROLYN ; KAPP KEHROLIN DZHIN ; LYNN ANN GERHEART ; LYNN SMITHEY SHERI ; SCHNELL SCOTT ; SCOTT SCHNELL ; SHERI LYNN SMITHEY ; SHNELL SKOTT ; SMITHEY SHERI ; SMITHEY SHERI L ; SMITHEY SHERI LYNN ; SMITI SHERI LINN ; ANDERSON DONNA ; ANDERSON DONNA E ; ANDERSON DONNA EHLIZABET ; ANDERSON DONNA ELIZABETH ; ANN GERHEART LYNN ; CUPP CARLOYN JEAN ; CUPP CAROLYN ; CUPP CAROLYN J ; CUPP CAROLYN JEAN ; DAN DIXON ; DIXON DAN

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; HARNECKER; HARNECKER CAREY LIMITADA; JOSE ANTONIO LLOREDA; LOCK GRAHAM JAMES; BELL BOYD AND LLOYD LLC; K AND L GATES LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BG BR BY BZ CA CH CN CR CU CY CZ DE DK DM DZ EE ES FI FR GB GD GE GH GM GR 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 MN MW MX MZ NL NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: AMUSEMENT ARTICLES POSSESSING MICROBE-INHIBITING PROPERTIES

Abstract: An amusement article for a domestic animal comprising an outer textile casing defining a shape in the form of a small article which can be carried by a domestic animal, an inner filling, and a microbe-inhibiting agent or property applied to at least one of the outer textile casing and the inner filling. The toys may be fabricated in various shapes, designs and styles, e.g., animals, bones, hearts, geometric shapes, etc. A process for applying the microbe-inhibiting agent or property to at least one of the outer textile casing and the inner filling is provided. Application methods include spraying, dipping, brushing, and rolling the microbe-inhibiting agent or property onto at least one of the outer textile casing and the inner filling.

Classifications:

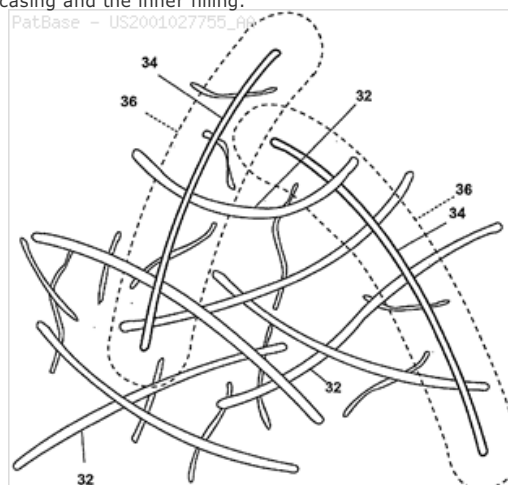
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CPC: A01K1/0353 A01K13/003 A01K1/0152 A01K15/025 A01K15/026 A01N25/10 A01N25/34 D06M16/00

European: A01K1/015B A01K13/00D A01K15/02C A01K15/02C1 A01N25/10 A01N25/34 D06M16/00

US: 119/28.5 119/285 119/706 119/707 119/709 119/710 119/850 424/443 424/443S 5/636 5/690 5/698



Family:

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Priority:

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Probable Assignee: ANIMAL MAJESTY INC

Assignee(s): (std): SEEFAR TECHNOLOGIES INC

Assignee(s): SMITH MARYCLAY ; UHLMANN EUGENIE V ; UNIVER L MANU CTURING FASA ; UNIVERSAL MFG ; UNIVERSAL MFG INC ; ANIMAL MAJESTY INC ; DENESUK MATTHEW ; HINGST ERIN

Inventor(s): (std): UHLMANN EUGENIE V ; DENESUK MATTHEW ; SMITH MARYCLAY ; HINGST ERIN

Inventor(s): UHLMANN EUGENIE

Agent(s): BORDEN LADNER GERVAIS LLP; MCGARRY BAIR PC

Title: Physical improvements in coated monofilament dental tapes

Abstract: Disclosed are coated monofilament dental tapes with physical improvements including patient-friendly edges and self-indicating releasable coatings.

Classifications:

International (IPC 8-9): A45D44/18 A46B3/04 A46B5/00 A46B9/04

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D06M11/45 D06M11/71 D06M11/76 D06M11/77 D06M11/79 D06M13/00 D06M15/00 D06M15/53 D06M23/08 (Advanced/Invention);
B29L7/00 B29L9/00 D06M101/18 (Advanced/Non-invention);

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D01D4/00 D01F6/78 D02G3/00 (Core/Invention);
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International (IPC 1-7): A45D44/18 A46B9/04 A61C015/00 A61C015/04 A61C15/00 A61C15/04 A61K6/00 A61K7/00 A61K7/16
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US: 132/321 132/321S 132/323 132/323S 424/401 424/405 424/443 424/48 424/48P 424/49 424/49P 424/49S 424/52 424/52S
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PatBase - US2002083956_AA



Family:

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Priority:

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Probable Assignee: WHITEHILL ORAL TECHNOLOGIES INC

Assignee(s): (std): DALE G BROWN ; HILL IRA ; HILL IRA D ; INTERNAT TAPE PARTNERS LLC ; PERI DENT LTD ; HILL JAMES MCKENZIE ; PERI DEAT LTD ; INT TAPE PARTNERS LLC ; BARLOW DAVID ; BROWN DALE ; BROWN DALE G ; DALE BROWN ; LEPPLE ROBERT C ; WHITE ROBERT D ; ROBERTS IAN ; SCHWEIGERT MICHAEL ; SCHWEIGERT MICHAEL R ; WHITEHILL ORAL TECH INC

Assignee(s): WHITEHILL ORAL TECHNOLOGIES INC ; PERI DENT LTD GALASHIELS ; INT TAPE PARTNERS LLC 12701 EXECUTIVE DRIVE SUITE 614 ; ROBERT D WHITE ; INTERNATIONAL TAPE PARTNERS LLC ; PERI DENT LIMITED ; PERI DEAT LIMITED ; IRA D HILL ; IRA HILL

Inventor(s): (std): MICHAEL R SCHWEIGERT ; LEPPLE ROBERT C ; IRA D HILL ; HILL JAMES MCKENZIE ; HILL IRA D ; DALE G BROWN ; BROWN DALE G ; BROWN DALE ; BARLOW DAVID ; SCHWEIGERT MICHAEL ; SCHWEIGERT MICHAEL R ; WHITE ROBERT D ; ROBERTS IAN

Inventor(s): ROBERT D WHITE ; HILL IRA ; LEPPLE ROBERT ; ROBERTS IAN TWEEDBANK ; HILL JAMES MCKENZIE TWEEDBANK ; HILL IRA D LOCUST ; BROWN DALE G WHARTON ; BARLOW DAVID TWEEDBANK

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; SMART AND BIGGAR; RICHES MCKENZIE AND HERBERT LLP; RIDOUT AND MAYBEE LLP; PATENTANWAELTE MAGENBAUER AND KOLLEGEN PARTNERSCHAFT MBB; PARNHAM KEVIN; CURELL MIREIA; CLT PATENT AND TRADEMARK HK LTD UNIT 10 34 F OFFICE TOWER CONVENTION; HITOSHIO AKIO; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; BANNER AND WITCOFF LTD; LINEK ERNEST V

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Title: PRODUCTS AND METHODS FOR IMPROVING ANIMAL DENTAL HYGIENE

Abstract: Products and methods for reducing tartar on the teeth of a **pet** are provided. In an embodiment, a **chewable** product that enhances dental hygiene in a **pet** is provided comprising a body having a continuous phase and a discontinuous phase in such a proportion so that the force required to penetrate the product is greater than an anticipated bite force exerted by the **pet** during a normal biting event, and below the maximum force that the **pet** may periodically exert.

Classifications:

International (IPC 8-9): A01K11/00 A01K13/00 A01K15/02 A01K67/00 A23K1/18 A61K9/68 (Advanced/Invention);

A01K15/02 (Advanced/Non-invention);

A01K11/00 A01K13/00 A01K15/00 A01K15/02 A01K67/00 A23K1/18

A61K9/68 (Core/Invention);

A01K A23K (Subclass/Invention)

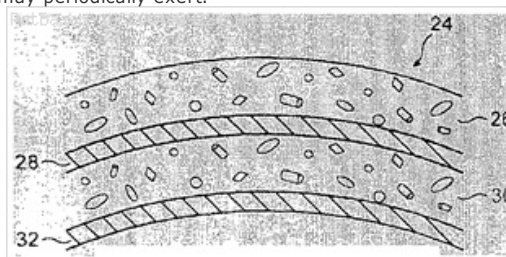
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CPC: A23K50/40 A01K15/026

European: A01K15/02C A01K15/02C1 A23K1/18N

US: 119/709 119/710



Family:

Publication number	Publication date	Application number	Application date
AR034300 AA	20040218	AR2002P101169	20020327
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ZA200308433 A	20050426	ZA20030008433	20031029

Priority:

US20010280064P 20010330 WO2002EP03430 20020326

Probable Assignee: NESTEC SA

Assignee(s): (std): NESTLE SA ; RUSSELL MAYNARD JOHN ; EL MARIMA ; FERNANDES PAULO ; MARIMA EL ; NESTEC SA ; DAUTREMONT CHRISTOPHE ; DE PRODUITS NESTLE SA SOC ; DES PRODUITS NESTLE S A SOC ; SOCIETE DES PRODUITS NESTLE S A

Assignee(s): GOMBAULT EL HALYMAS MARIMA ; SOS ETE DE PRODJUI NESTLE SA ; BRAGA FERNANDES PAULO ALEXANDER ; DES PRODUITS NESTLE SA SOC ; DES PRODUITS NESTLE SOC SA ; SOCIETE DES PRODUITS NESTLE S A VEVEY ; NESTEC S A ; SOCIETE DES PRODUITS NESTLE SA ; SOS ETE DE PRODJUI NESTLE S A

Inventor(s): (std): DAUTREMONT CHRISTOPHE ; EL MARIMA ; FERNANDES PAULO ; GOMBAULT EL HALYMAS MARIMA ; MARIMA EL ; RUSSELL MAYNARD JOHN ; RUSSEL MEJNAR DZHON ; PAULO FERNANDES ; JOHN RUSSELL MAYNARD ; EHL MARIMA ; CHRISTOPHE DAUTREMONT ; PAULO RUSSELL MAYNARD JOHN DAU ; PAULO ALEXANDER BRAGA FERNANDES ; GOMBAULT EL HALYMAS MARIMA F ; FERNANDES PAULO ALEXANDER BRAG ; BRAGA

FERNANDES PAULO ALEXANDE ; MARIMA GOMBAULT EL HALYMAS ; DOTREMON KRISTOF ; HALYMAS
MARIMA GOMBAULT EL

Inventor(s):

GOMBAULT EL HALYMAS MARIMA F 91190 GIF SUR YVETTE ; FERNANDES ; EHL' MARIMA ; DAUTREMONT ;
CHRISTOPHE ; BRAGA FERNANDES PAULO ALEXANDER ; PAULO ; MARIMA EL HALYMAS ; JOHN ; RUSSEL'-
MEJNAR DZHON ; RUSSELL MAYNARD JOHN DAUTREMONT CHRISTOPHE EL... ; RUSSELL MAYNARD JOHN
DAUTREMONT CHRISTOPHE EL MARIMA FERNANDES PAULO ; RUSSELL MAYNARD JOHN DAUTREMONT
CHRISTOPHE EL MARI ; RUSSELL MAYNARD

Agent(s):

SHELSTON IP PTY LTD; SHELSTON IP; BORDEN LADNER GERVAIS LLP; HARNECKER; BELL BOYD AND LLOYD
LLC

Designated states:

AE AG AL AM AT AU AZ BA BB BE BG BR BY BZ CA CH CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR
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ZM ZW

Title: TWO-TEXTURE **PET FOOD** PRODUCT

Abstract: The present invention is directed to a nutritionally complete, shelf stable **pet food** product and process of manufacturing that has two different textures, and more particularly to a **pet food** product that has a meaty outer component and an inner bone-like component.

Classifications:

International (IPC 8-9): A23D7/00 A23K1/00 A23K1/18 A23K1/20

A23P1/12 (Advanced/Invention)

International (IPC 1-7): A01K1/00 A23G1/00 A23K1/00 A23K1/18 A23K1/20 A23L1/00

CPC: Y10S426/805 A23K50/45 A23K50/40 A23K50/42 A23K40/25 A23K20/20 A23K40/20

European: A23K1/00B2 A23K1/18N A23K1/18N2 A23K1/18N4

US: 426/2 426/282 426/283 426/2P 426/516 426/516S 426/531 426/531S 426/601 426/601S 426/623 426/635 426/805 426/89 426/89P 426/94

PatBase - US2004052906_AA

Patent Application Publication Mar. 18, 2004 Sheet 1 of 4 US 2004/0052906 A1

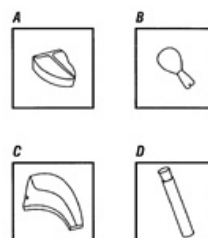


FIG. 1

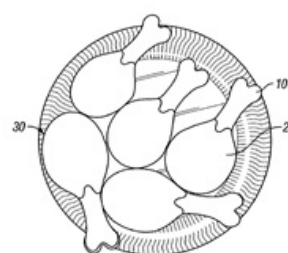


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
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EP1722641 A4	20080305	EP20050723902	20050225
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US2008138464 AA	20080612	US20080028308	20080208
US6896924 BB	20050524	US20020244259	20020916
WO04023885 A2	20040325	WO2003US28153	20030909
WO04023885 A3	20040701	WO2003US28153	20030909
WO05084243 A2	20050915	WO2005US06231	20050225
WO05084243 A3	20051124	WO2005US06231	20050225

Priority:

US20020244259 20020916	WO2003US28153 20030909	US20040789538 20040227
US20050051743 20050204	WO2005US06231 20050225	US20080028308 20080208

Probable Assignee: MARS INC

Assignee(s): (std): AHMED SAEED ; BEYER DAN ; BIERER TIFFANY L ; BOYLE KRISTIN ; FRANK CHRISTOPHER ; HERNANDEZ ANGEL ; MARS INC ; MUNDAY HELEN ; UNLU EMINE ; TOWNSEND STEWART ; SLUSARCZYK PETER ; ORTIZ OSCAR ; TORNEY ALLAN A ; SHIELDS FRANK ; MENDES ALEXANDRE CONSUL ; SLUSARCZYK PETER S ; MOONEY LIISA ; ZUBAIR KASIM A

Assignee(s): MENDES ALEXANDRE C

Inventor(s): (std): TOWNSEND STEWART ; ZUBAIR KASIM X ; ZUBAIR KASIM A ; UNLU EMINE ; TOWNSEND STEWARD ; TORNEY ALLAN A ; SLUSARCZYK PETER ; SHIELDS FRANK ; ORTIZ OSCAR ; MUNDAY HELEN ; MOONEY LIISA ; MENDES ALEXANDRE CONSUL ; MENDES ALEXANDRE C ; HERNANDEZ ANGEL ; FRANK CHRISTOPHER ; BOYLE KRISTIN ; BIERER TIFFANY L ; BEYER DAN ; AHMED SAEED ; SLUSARCZYK PETER S

Inventor(s): STEWART TOWNSEND ; TIFFANY L BIERER ; ALEXANDRE C MENDES ; ALEXANDRE CONSUL MENDES ; ALLAN A TORNEY ; ANGEL HERNANDEZ ; CHRISTOPHER FRANK ; DAN BEYER ; EMINE UNLU ; FRANK SHIELDS ; HELEN MUNDAY ; KASIM A ZUBAIR ; KRISTIN BOYLE ; LIISA MOONEY ; OSCAR ORTIZ ; PETER S

SLUSARCZYK ; SAEED AHMED ; ZUBAIR KASIM ; TORNEY ALLAN ; MENDES ALEXANDRE ; BIERER TIFFANY

Agent(s):

WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD;
FULBRIGHT AND JAWORSKI LLP; WOODCOCK WASHBURN LLP

Designated states:

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Title: USE OF EXPANDED CONSTITUENTS AND MANUFACTURE OF PRODUCTS THEREFROM

Abstract: The present invention provides methods and products made thereby, wherein a pre-expanded constituent, including an edible constituent, is thermally treated to melt it, preferably in a dynamic process environment, to produce products ranging from high to quite **low densities** and from very strong to soft to apparently **dry** textures. The wide range of textures enables the provision of **food** products such as low calorie, digestible and safe, long duration **pet food chews**. Non-**food** products suitable for use in manufacture may also be produced. Cooking is preferably carried in an **extruder**, preferably at low **moisture** or in the total absence of added water. The methods of dynamic cooking reduce cost in a number of ways including but not limited to decreased process steps, increased throughput, decreased capital expenses and decreased raw product cost.

Classifications:

International (IPC 8-9): A23G3/00 A23K1/00 A23K1/14 A23K1/16 A23K1/18 A23K1/20 A23L1/18 (Advanced/Invention); A23G3/00 A23K1/00 A23K1/16 A23K1/18 A23L1/18 (Core/Invention); A23K A23L (Subclass/Invention)

International (IPC 1-7): A23K1/00 A23K1/16 A23K1/18 A23L1/18

CPC: A23K20/163 A23K50/40 A23K40/20 A23K40/25

European: A23K1/00B2 A23K1/16L A23K1/18N

US: 426/2 426/518 426/519 426/520 426/623 426/658

PatBase - US2006292288_AA

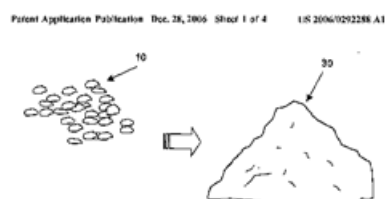


FIGURE 1

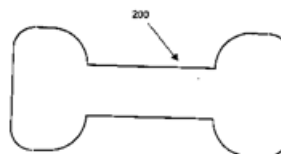


FIGURE 4

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MXPA05007913 A1	20060222	MX2005PA07913	20040126
RU2005127036 A	20060120	RU20050127036	20040126
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US2006292288 AA	20061228	US20040542661	20040126
US2014037784 AA	20140206	US20130755593	20130131
WO04066748 A1	20040812	WO2004EP00618	20040126
ZA200506832 A	20061227	ZA20050006832	20050825

Priority:

EP20030001714 20030127 US20040542661 20040126 WO2004EP00618 20040126
US20060542661 20060817 US20130755593 20130131

Probable Assignee: NESTEC SA

Assignee(s): (std): NESTEC SA ; NESTEC S A ; RUSSELL MAYNARD JOHN

Assignee(s): NESTEC S A ; NESTEC SA

Inventor(s): (std): RUSSELL MAYNARD JOHN ; JOHN RUSSELL MAYNARD ; RASSEL MEHJNARD DZHON

Inventor(s): RASSEL-MEHJNARD DZHON ; RUSSELL MAYNARD JOHN AU AU ; RUSSELLMAYNARD JOHN

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; BORDEN LADNER GERVAIS LLP; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; RUPP CHRISTIAN; ISERN JORGE; BELL BOYD AND LLOYD LLC

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
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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

Title: PUFFED **PET FOOD** FOR DIET CONTROL

Abstract: Low energy-dense **food** products and methods of making low energy-dense **food** products are provided. Illustrative examples have a bulk **density** of less than 240 kg/m³ (about 15 lb/ft³) and comprise a high amylose starch and a starch comprising long chain amylose.

Classifications:

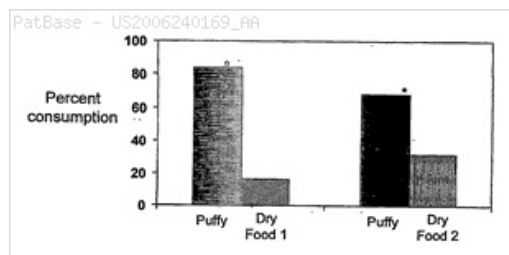
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International (IPC 1-7): A23K0/00 A23K1/00 A23K1/18 A23L1/0522 A23L1/28

CPC: Y10S426/805 A23K50/42 A23K20/163 A23K40/20 A23K40/25

European: A23K1/00B2 A23K1/16L A23K1/18N2

US: 426/625 426/658 426/805



Family:

Publication number	Publication date	Application number	Application date
AR043559 AA	20050803	AR2004P100795	20040311
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ZA200508210 A	20070228	ZA20050008210	20051011

Priority:

US20030045412P 20030312 US20030454124 20030312 US20030454124P 20030312
 US20040548417 20040311 WO2004US07416 20040311 US20050548417 20050908

Probable Assignee: NESTEC SA

Assignee(s): (std): HEYDTMANN PATRICIA C ; HEYDTMANN PATRICIA CARLA ; JEAN PHILIPPE CLEMENTINE ; NESTEC SA ; NESTEC S A ; PERSAUD JAGAT ; PATIL AVINASH ; NESTEC SA

Assignee(s): NESTEC S A

Inventor(s): (std): AVINASH PATIL ; CLEMENTINE HEYDTMANN PATRICIA ; HEYDTMANN CARLA PATRICIA ; ZHAN FILIPP KLEMENTIN ; PERSO DZHAGAT ; PERSAUD JAGAT ; PATIL AVINASH ; KHEJDTMANN PATRITSIJA KARLA ; JEAN PHILIPPE CLEMENTINE ; HEYDTMANN PATRICIA CARLA ; HEYDTMANN PATRICIA C ; CARLA HEYDTMANN PATRICIA ; PATRICIA CARLA HEYDTMANN ; JAGAT PERSAUD ; CLEMENTINE JEAN PHILIPPE

Inventor(s): HEYDTMANN PATRICIA CARLA PERSAUD JAGAT PATIL AVINASH JEAN PHILIPPE CLEMENTINE ; HEYDTMANN PATRICIA CARLA PERSAUD JAGAT PATIL ; HEYDTMANN PATRICIA CARLA PERSAUD JAGAT PATIL AVINA ; ZHAN-FILIPP KLEMENTIN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; LOCK GRAHAM JAMES ET AL; BELL BOYD AND LLOYD LLC; K AND L GATES LLP

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

Title: READY-TO-EAT **DRY** FRUIT PRODUCTS AND PROCESS

Abstract: The present disclosure provides ready-to-eat (RTE), shelf-stable processed **foods** composed of up to 100 percent fruit and the system and process for their manufacture. The product, system, and process uses dried fruit in some form as an in-feed material, having a higher **moisture** content than heretofore has been suitable for **extruder** in-feed ingredients, thus retaining at least a portion of the natural volatile materials that contribute to taste and aromas. Further, the dried fruit is **extruded** and can be dried into crispy, crunchy, chewy, or hard particles or pieces high in fruit content that heretofore have been unavailable, and the products and process can be independent of starch and grain based prior technology. The products of the present disclosure can be eaten as healthy snacks or used as high-fruit-content additives in RTE **cereals**, baking **mixes**, toppings, and other **food** products. The process provides a high degree of efficiency and reduced costs.

Classifications:

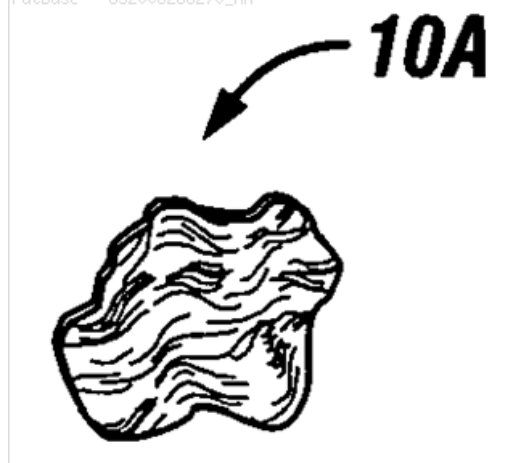
International (IPC 8-9): A23L1/164 A23L1/212 (Advanced/Invention);
A23L1/164 A23L1/212 (Core/Invention)

CPC: A23L19/09 A23L7/122 A23P30/20

European: A23L1/00P12 A23L1/164B A23L1/212E

US: 426/443 426/445 426/464 426/516 426/518 426/519 426/615
426/620 426/640

PatBase - US2006286270_AA



Family:

Publication number	Publication date	Application number	Application date
US2006286270 AA	20061221	US20060400460	20060407
US7569244 BB	20090804	US20060400460	20060407

Priority:

US20050669703P 20050408 US20060400460 20060407

Probable Assignee: JORDAN J KIRK

Assignee(s): (std): GRAINNOVATION INC ; JORDAN J KIRK

Inventor(s): (std): JORDAN J K ; JORDAN J KIRK

Inventor(s): JORDAN J

Agent(s): LOCKE LIDDELL AND SAPP LLP; LOCKE LORD BISSELL AND LIDDELL LLP

Title: READY-TO-EAT **DRY** FRUIT PRODUCTS AND PROCESS

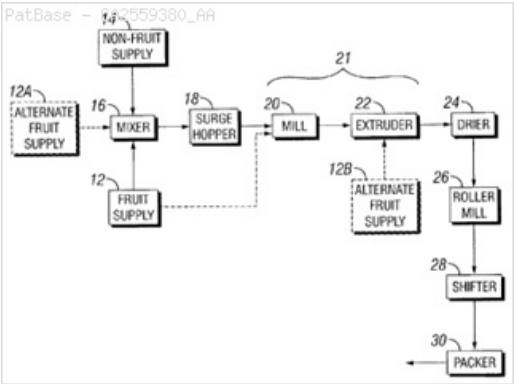
Abstract: The present disclosure provides ready-to-eat (RTE), shelf-stable processed **foods** composed of up to 100 percent fruit and the system and process for their manufacture. The product, system, and process uses dried fruit in some form as an in-feed material, having a higher **moisture** content than heretofore has been suitable for **extruder** in- feed ingredients, thus retaining at least a portion of the natural volatile materials that contribute to taste and aromas. Further, the dried fruit is **extruded** and can be dried into crispy, crunchy, chewy, or hard particles or pieces high in fruit content that heretofore have been unavailable, and the products and process can be independent of starch and grain based prior technology. The products of the present disclosure can be eaten as healthy snacks or used as high-fruit-content additives in RTE **cereals**, baking **mixes**, toppings, and other **food** products. The process provides a high degree of efficiency and reduced costs.

Classifications:

International (IPC 8-9): A23B7/02 A23L1/212 A23L19/00 A23N12/08 A23P1/12 A23P30/20 (Advanced/Invention); A23L3/40 (Advanced/Non-invention); A23L1/212 A23N12/00 A23P1/10 (Core/Invention); A23L3/40 (Core/Non-invention)

CPC: A23B7/02 A23L19/01 A23L19/09 A23P30/20 A23P30/34

European: A23B7/02 A23L1/00P12 A23L1/00P14B2 A23L1/212B A23L1/212E A23P1/12



Family:

Publication number	Publication date	Application number	Application date
CA2559380 AA	20080311	CA20062559380	20060911
CA2559380 C	20121030	CA20062559380	20060911

Priority:

CA20062559380 20060911

Probable Assignee: GRAINOVATION INC
Assignee(s): (std): GRAINNOVATION INC ; GRAINOVATION INC
Assignee(s): JORDAN J KIRK
Inventor(s): (std): JORDAN J KIRK
Agent(s): MARKS AND CLERK

Title: ANIMAL **FOOD** COMPOSITIONS AND TREATS

Abstract: The invention provides animal **food** compositions. In particular, the animal **food** compositions generally contain a structured plant protein along with other macronutrients and micronutrients formulated in amounts to meet the daily nutritional requirements of the animal.

Classifications:

International (IPC 8-9): A23K1/16 (Advanced/Invention);

A23K1/16 (Core/Invention)

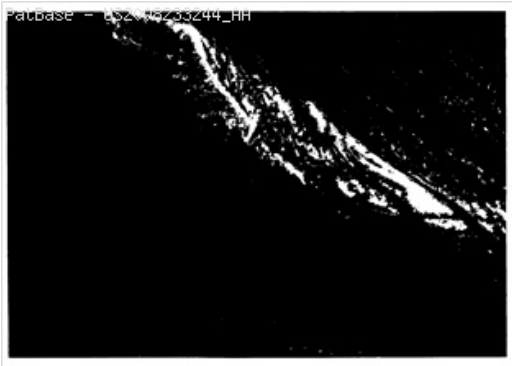
CPC: A23J3/16 A23J3/18 A23J3/26 A23K10/20 A23K20/147 A23K20/174

A23K50/10 A23K50/30 A23K50/42 A23V2002/00

European: A23J3/16 A23J3/18 A23J3/26 A23K1/10 A23K1/16B

A23K1/16G A23K1/18K A23K1/18M1 A23K1/18N2 K23V2/00

US: 426/72 426/72P



Family:

Publication number	Publication date	Application number	Application date
 US2008233244 AA	20080925	US20080053975	20080324

Priority:

US20070896602P 20070323 US20080053975 20080324

Probable Assignee: SOLAE LLC

Assignee(s): (std): SOLAE LLC

Inventor(s): (std): SWENSON KRISTEN J

Agent(s): HOLLY M AMJAD

Title: **EXTRUDED PET FOOD** COMPOSITION

Abstract: Formulation choices and/or process parameters can be used to modify the texture of **extrusion** cooked **food** products. Interactions between formulation choices and process parameters may be used in concert to produce **extrusion** cooked **food** products of **low density** and **low** hardness. **Low density** and **low** hardness may make the kibble texture easier or more pleasant to **chew** or swallow.

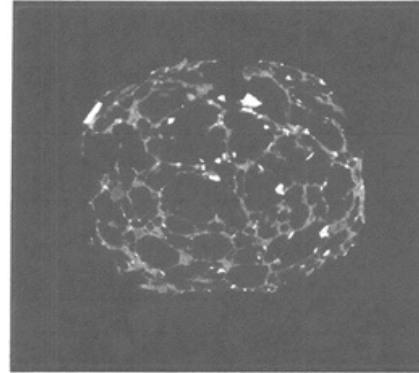
Classifications:

International (IPC 8-9): A01K5/02 A23K1/00 A23K1/16 A23K1/18
A23K10/00 A23K20/142 A23K20/147 A23K20/163 A23K40/25 A23K50/42
A23K50/45 A23L29/20 A23P30/20 (Advanced/Invention)

CPC: A23K20/147 A23K20/163 A23K50/40 A23K50/42 A23K40/20
A23K40/25 A23K50/45

US: 426/448 426/465 426/549 426/560

PatBase - US2013309384_AA



Family:

Publication number	Publication date	Application number	Application date
AR100659 AA	20161026	AR2013P101764	20130521
AU2013266506 AA	20131128	AU20130266506	20130521
AU2013266506 BB	20160310	AU20130266506	20130521
CA2874434 AA	20141121	CA20132874434	20130521
CN104619192 A	20150513	CN201380037069	20130521
JP2015520613 T2	20150723	JP20150514109T	20130521
RU2014151744 A	20160710	RU20140151744	20130521
RU2645983 C2	20180228	RU20140151744	20130521
US2013309384 AA	20131121	US20130898552	20130521
US2016198741 AA	20160714	US20160078000	20160323
US2016198742 AA	20160714	US20160077997	20160323
WO13177143 A1	20131128	WO2013US41991	20130521

Priority:

US20120649871P 20120521	US20120650400P 20120522	US20130898552 20130521
WO2013US41991 20130521	US20160078000 20160323	US20160077997 20160323

Probable Assignee: IAMS CO

Assignee(s): (std): IAMS CO ; MARS INC ; MARS INKORPOREJTED

Assignee(s): VILLAGRAN MARIA DOLORES MARTINEZ ; AIREN ISOKEN OMOSEFE ; DURITSCH GREGORY WILLIAM ; IAMS COONE PROCTER & GAMBLE PLAZACINNATIONH45202US ; SCHILDKNECHT WILLIAM CHRISTOPHER ; MOONEY JOAN HELEN ; VILLAGRAN MARIA DOLORES MARTINEZ SERNA

Inventor(s): (std): AIREN ISOKEN OMOSEFE ; DURITSCH GREGORY WILLIAM ; GREGORY WILLIAM DURITSCH ; ISOKEN OMOSEFE AIREN ; JOAN HELEN MOONEY ; MARIA DOLORES MARTINEZ SERNA VILLAGRAN ; MARTINEZ SERNA VILLAGRAN MARIA DOLORES ; MOONEY JOAN HELEN ; SCHILDKNECHT WILLIAM CHRISTOPHER ; VILLAGRAN MARIA DOLORES MARTINEZ SERNA ; WILLIAM CHRISTOPHER SCHILDKNECHT ; VILLAGRAN MARIYA DOLORES MARTINES ; SHILDKNEKHT UILLYAM KRISTOFER ; MUNI DZHOAN KHELEN ; DURICH GREGORI UILLYAM

Inventor(s): AIREN ISOKEN OMOSEFEUS ; MOONEY JOAN HELENUS ; DURITSCH GREGORY WILLIAMUS ; SCHILDKNECHT WILLIAM CHRISTOPHERUS ; VILLAGRAN MARIA DOLORES MARTINEZ SERNAUS ; VILLAGRAN MARIA DOLORES MARTINEZ

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; CASSAN MACLEAN IP AGENCY INC; OOO YURIDICHESKAYA GORODISSKII I PARTNER Y FA; GUFFEY TIMOTHY B

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

Title: **PET** TOY CONFIGURABLE AS A TRAINING AID AND/OR **PET** TREATMENT DEVICE

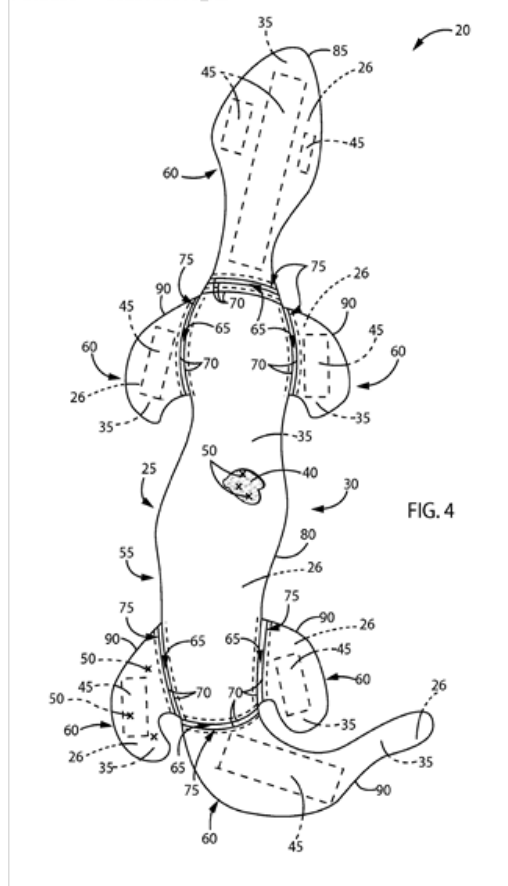
Abstract: A **pet** toy with a rigid segment holding a rigid product and a soft segment holding a soft product that can be granular and/or fibrous. The rigid product may define a clumped arrangement or mass having irregular surface characteristics and may include discrete starch- containing pellets bound to each other by a carbohydrate polymer binder. The carbohydrate polymer may include dextrin and be water soluble. The soft and rigid products may be received in a common cavity or be held separately in discrete soft and rigid segments of the body. A releasable material may be held in the body which may include a releasable attractant material and/or a releasable treatment material as a stand-alone material or incorporated at least partially into the soft and/or hard product. This may allow the **pet** toy to be configured as an entertainment toy, training aid, and/or treatment device.

Classifications:

International (IPC 8-9): A01K15/00 A01K15/02 (Advanced/Invention)

CPC: A01K15/026 A01K15/025 A23K10/30 A23K20/10 A23K20/163 A23K50/42

PatBase - WO15013308_A1



Family:

Publication number	Publication date	Application number	Application date
WO15013308 A1	20150129	WO2014US47665	20140722

Priority:

US20130857102P 20130722 US20130857187P 20130722

Probable Assignee: PIONEER PET PRODUCTS LLC

Assignee(s): (std): PIONEER PET PRODUCTS LLC

Inventor(s): (std): LIPSCOMB JOHN M

Agent(s): STEIN DAVID D

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 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

Title: MICROBIAL BIOMASS COMPRISING **FOOD** PRODUCTS

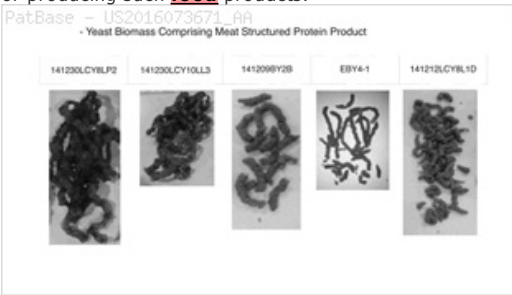
Abstract: Provided are **food** products that have meat-like structure, texture, and properties, and that comprise substantial amounts of microbial biomass. Also provided are methods and processes for producing such **food** products.

Classifications:

International (ipc 8-9): A23B4/00 A23L1/231
A23L1/314 (Advanced/Invention)

CPC: A23L1/231 A23J3/227 A23L13/426

US: 426/61



Family:

Publication number	Publication date	Application number	Application date
US2016073671 AA	20160317	US20150855212	20150915
WO16044423 A1	20160324	WO2015US50421	20150916

Priority:

US20140051710P 20140917 US20150855212 20150915

Probable Assignee: SAVAGE RIVER INC DBA BEYOND MEAT

Assignee(s): (std): SAVAGE RIVER INC DBA BEYOND MEAT

Inventor(s): (std): GEISTLINGER TIMOTHY ; SUAREZ TRUJILLO DEYA ; TIMMONS MICHAEL S

Agent(s): CONKLIN DAVID R

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 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

Title: **LOW DENSITY** EDIBLE ANIMAL **CHEWS** AND METHODS OF MAKING SAME

Abstract: Edible **chews** for **pets** have a **low density** (e.g. about 1.0 Kg/L or less) and a smooth exterior surface. One method by which the **low density** and the smooth exterior surface can be achieved uses a modified **extrusion** die to increase **shear** and restrict surface bubbles. Another method by which the **low density** and the smooth exterior surface can be achieved uses an **extruder** screw with a modified profile that holds a dough longer therein to create a whipping effect resulting in more bubble nucleation sites and hence a more uniform cellular matrix. The puffed (expanded) product was experimentally tested and provided better dental cleaning scores than a current unexpanded similarly formulated commercial dental product.

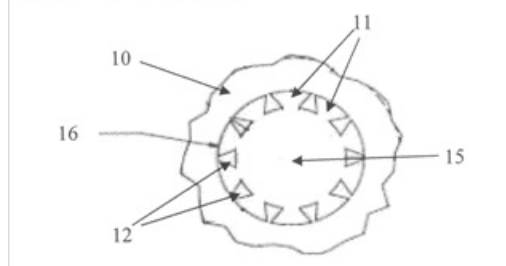
Classifications:

International (IPC 8-9): A23K1/00 A23K1/14 A23K1/175 A23K10/30 A23K20/163 A23K20/22 A23K40/00 A23K40/20 A23K40/25 A23K50/40 A23K50/42 (Advanced/Invention)

CPC: A23K50/42 A23K40/25 A23K10/30 A23K20/22 A23K40/20 A01K15/026

US: 426/2 426/549

PatBase - US2016143320_HH



Family:

Publication number	Publication date	Application number	Application date
AU2015352086 AA	20160602	AU20150352086	20151117
BR112017008667 A2	20171226	BR20171108667	20151117
CA2962881 AA	20170328	CA20152962881	20151117
CL2017001125 A1	20171124	CL20170001125	20170505
CN107105713 A	20170829	CN201580060973	20151117
CO20170005412 A2	20170818	CO20170005412	20170630
EP3223625 A1	20171004	EP20150801262	20151117
IN201717009215 A	20170818	IN201717009215	20170316
JP2017535272 T2	20171130	JP20170527281T	20151117
MX2017006634 A1	20171031	MX20170006634	20151117
US2016143320 AA	20160526	US20150943176	20151117
WO16083947 A1	20160602	WO2015158896	20151117

Priority:

US20140083567P 20141124

US20150943176 20151117

WO2015158896 20151117

Probable Assignee: NESTEC SA

Assignee(s): (std): NESTEC S A ; NESTEC SA

Assignee(s): ALBUJA MARIO G ; MAHE YANNICK

Inventor(s): (std): ALBUJA MARIO G ; MAHE YANNICK ; MARIO G ALBUJA ; YANNICK MAHE

Agent(s): SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ESTUDIO CAREY LTDA; ALICIA LLOREDA RICAURTE; KRISHNAN SRI

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

Title: METHOD OF PRODUCING EDIBLE **PET CHEW** PRODUCT AND PRODUCT PRODUCED THEREBY

Abstract: The present invention relates to a **pet chew** product comprising a skin of a first thermoplastic starch-based material enveloping a core of a second thermoplastic starch-based material, wherein the first and second thermoplastic starch-based materials may be the same or different, the core having a **density** or hardness lower than the skin, wherein the **pet chew** product is produced under constrained cooling conditions.

Classifications:

International (IPC 8-9): A01K15/02 A23K10/30 A23K10/35 A23K20/163 A23K40/20 A23K40/25 A23K50/42 (Advanced/Invention)

CPC: A01K15/026 A23K10/30 A23K10/35 A23K20/163 A23K40/20 A23K40/25 A23K50/42

PatBase - WO18124880_A1

WO 2018/124880

PCT/NL2017/050881

Figure 1



A



B

1/10

Family:

Publication number	Publication date	Application number	Application date
WO18124880 A1	20180705	WO2017NL50881	20171227

Priority:

EP20160206978 20161227

Probable Assignee: PARAGON PET PRODUCTS EUROPE BV

Assignee(s): (std): PARAGON PET PRODUCTS EUROPE BV

Inventor(s): (std): PATER WILLEM THEODOOR MARTINUS ; SCHENNINK GERALDUS GERARDUS JOHANNES

Agent(s): JANSSEN CM

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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