

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 August 2006 (31.08.2006)

PCT

(10) International Publication Number
WO 2006/091299 A3

(51) International Patent Classification:

A23L 1/216 (2006.01) A23L 1/00 (2006.01)
A23L 1/05 (2006.01)

(21) International Application Number:

PCT/US2006/002227

(22) International Filing Date: 23 January 2006 (23.01.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/062,193 18 February 2005 (18.02.2005) US

(71) Applicant (for all designated States except US):
FRITO-LAY NORTH AMERICA, INC. [US/US];
7701 Legacy Drive, Plano, Texas 75024-4099 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOSEPH, Pon-**
nattu, Kurlan [US/US]; 701 Rosita Street, Irving, Texas
75062 (US). **MATHEW, Renu** [US/US]; 4597 Hinton
Drive, Dallas, Texas 75019 (US). **NEEL, Donald,**
Vaughn [US/US]; 2885 Woodhollow Drive, Highland
Village, Texas 75077 (US). **RAMSAY, Sheyla, Rivera**
[MX/US]; 7741 El Padre Lane, Dallas, Texas 75077 (US).

(74) Agent: **CAHOON, Colin;** CARSTENS & CAHOON,
LLP, P.O. Box 802334, Dallas, Texas 75380 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

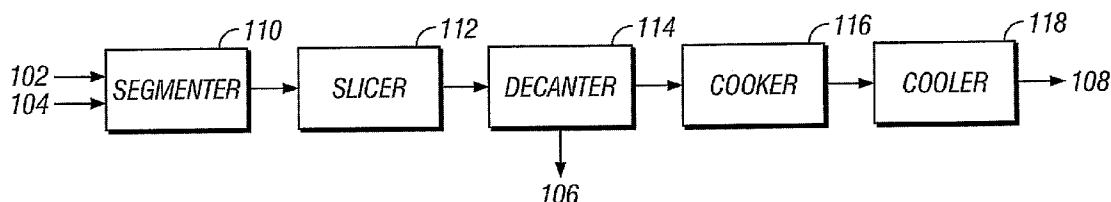
- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:

4 October 2007

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FABRICATED FOOD PRODUCT MADE FROM FRESH POTATO MASH



(57) Abstract: A composition and method for providing a strong dough having a substantial quantity of fresh potatoes. Fresh potatoes are made into a mash and centrifuged to reduce the water content to about 70% by Weight. Such potato mash can comprise over 50% by weight of the final dough. This dough can be used to make sheeted or extruded products. Such dough results in improved, more naturally-flavored products compared to products made entirely from dehydrated or partially-dehydrated potato derivatives. The method comprises finely slicing potatoes to form a potato slurry or mash; decanting excess water from the potato slurry; heating the potato slurry to a temperature no greater than about 190 degrees Fahrenheit; cooling the slurry to under 140 degrees Fahrenheit; and imparting a low amount of work input to a mixture of the slurry and other ingredients to form a shapeable dough.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/02227

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8): A23L 1/216, 1/05, 1/00 (2007.01)

USPC: 426/637

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC: 426/637

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC: 426/438, 508, 576

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWest: PGPB,USPT,USOC,EPAB,JPAB; Google Scholar; Google Patents

Text: Fully gelatinized potato; dough; starch; fresh potato; potato flakes; corn syrup; sugar; emulsifier; thickness; moisture content

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 3,692,537 A (GERKENS) 19 September 1972 (19.09.1972), col 3, ln 32-33; col 4, ln 56; col 4, ln 74-75; col 4, ln 40-43; col 7, ln 6; col 6, ln 56-75; col 6, ln 71; col 7 ln 10; col 7, ln 34; claim 1, col 8, ln 38	1-2 and 4 3, 5-9
Y	US 2002/160092 A1 (VILLAGRAN et al.) 31 October 2002 (31.10.2002), para [0129], [0131]-[0132], [0103]	3, 8-9
Y	US 4,293,582 A (HAMANN et al.) 06 October 1981 (06.10.1981), claim 2	5-7

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

08 June 2007 (08.06.2007)

Date of mailing of the international search report

10 AUG 2007

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774