

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

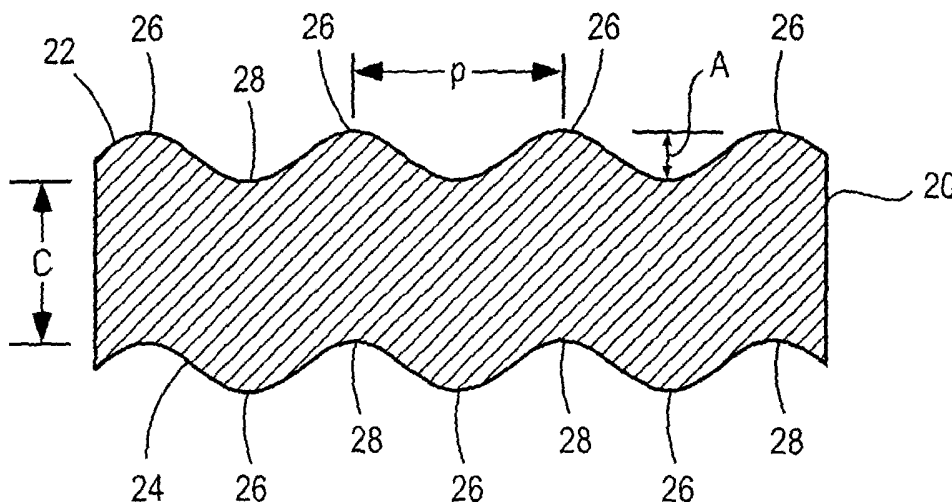
PCT

(10) International Publication Number
WO 2005/018340 A3

- (51) International Patent Classification⁷: A23L 1/217, H05B 6/68
- (21) International Application Number: PCT/US2004/026623
- (22) International Filing Date: 17 August 2004 (17.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 10/642,347 18 August 2003 (18.08.2003) US
- (71) Applicant (for all designated States except US): H. J. HEINZ COMPANY [US/US]; 60th Floor, USSB, 600 Grant Street, Pittsburgh, Pennsylvania 15219 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TIFFANY, Linda, E. [US/US]; 3771 Vista Drive, Ontario, Oregon 97914 (US). MASON, Patricia, A. [US/US]; 909 N.W. 2nd Street, Fruitland, Idaho 83619 (US). NEFF, Gary [US/US]; 7062 Bennington Woods Drive, Pittsburgh, Pennsylvania 15237 (US).
- (74) Agents: SLUTTER, Regis, E. et al.; Burns, Doane, Swecker & Mathis, LLP, P. O. Box 1404, Alexandria, Virginia 22314 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, IT, LU, 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)) for the following designations 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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,

[Continued on next page]

(54) Title: MICROWAVABLE FRENCH FRIES, PACKAGING AND PROCESSING



(57) Abstract: A microwavable crinkle-cut French fry potato includes deep grooves and coatings of oil and encapsulated salt. Crinkle-cut potato pieces are prepared with a solid content of 40-45% by weight, frozen, sprayed with oil and coated with encapsulated salt. A carton for the potato pieces is formed from a single-piece blank provided with a pair of microwave susceptor surfaces and reinforced corners. A removable lid contacts the potato pieces during microwave reconstitution.

WO 2005/018340 A3



- PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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:

12 May 2005

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

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/26623

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A23L 1/217; H05B 6/68

US CL : 219/720; 426/102, 144, 241, 293, 295, 296, 302, 438, 441, 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)

U.S. : 219/720; 426/102, 144, 241, 293, 295, 296, 302, 438, 441, 637

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,997,938 A (TAYLOR et al) 07 December 1999 (07.12.1999), see entire document.	1-12
Y	US 5,004,616 A (SHANBHAG et al) 02 April 1991 (02.04.1991), see entire document.	1-12
Y	US 4,219,575 A (SAUNDERS et al) 26 August 1980 (26.08.1980), see entire document.	1-12
Y	US 4,198,437 A (CITTI et al) 15 April 1980 (15.04.1980), see entire document.	1-12
X	US 5,096,723 A (TURPIN et al) 17 March 1992 (17.03.1992), see entire document.	16
---		-----
Y		7
X	US 5,049,710 A (PROSISE et al) 17 September 1991 (17.09.1991), see entire document.	13-15
X	US 4,935,592 A (OPPENHEIMER) 19 June 1990 (19.06.1990), see entire document.	13-15

Further documents are listed in the continuation of Box C.

See patent family annex.

* 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 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

07 March 2005 (07.03.2005)

Date of mailing of the international search report

28 MAR 2005

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. (703) 305-3230

Authorized officer

Arthur L. Corbin

Telephone No. (571) 272-1399

J. Utterfield
for