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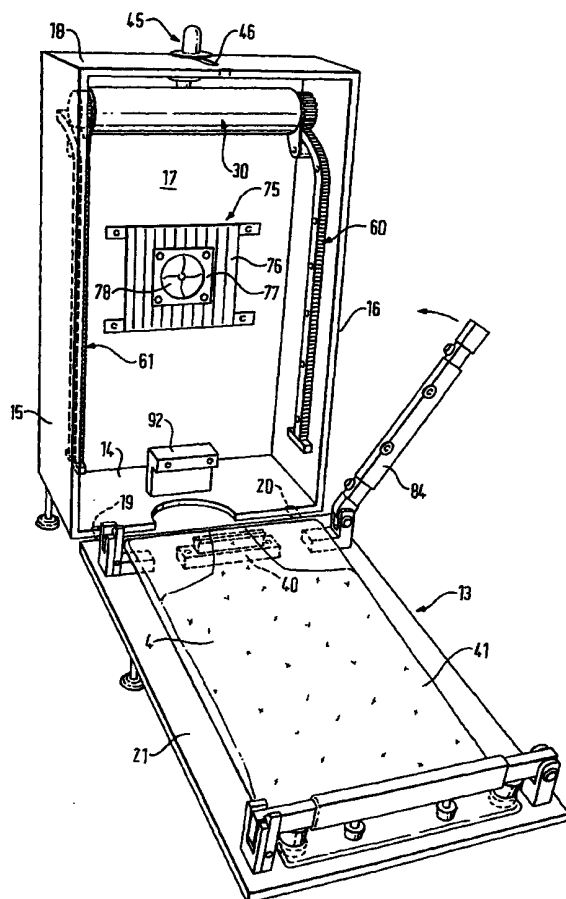
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[Continued on next page]

(54) Title: DISPENSING DEVICE FOR VISCOUS FOOD PRODUCT



(57) Abstract: The invention relates to a dispenser for viscous fluid food product, the dispenser comprising: a housing (12) configured and dimensioned for receiving a food pouch (4); the pouch is of the type of a pouch having first and second ends, a sidewall that can be arranged to form first and second opposed surfaces (410, 411), and an outlet (40), the pouch being capable of containing a viscous fluid food product therein; means for pressing the pouch so as to urge the viscous fluid food product content toward the outlet; wherein the means comprises a roller (30) having a pressing surface displaceable in a position adjacent the first surface (410) of the pouch and a planar surface (21) disposed adjacent the second surface of the pouch, closure means (9, 84) engaged with the outlet (40) for closing the outlet, the means being capable of opening the outlet so as to cause the roller (30) to move along the pouch surface toward the outlet by gravity for expelling the viscous fluid food product through the outlet.



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INTERNATIONAL SEARCH REPORT

In. ational Application No

PCT/EP 00/07465

A. CLASSIFICATION OF SUBJECT MATTER

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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)

IPC 7 B67D F16C B65D

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

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

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 58 419 C (HEUER, EMIL ET AL.) the whole document ---	1
X	FR 1 386 519 A (STREICHENBERGER S.A.R.L.) 12 May 1965 (1965-05-12) the whole document ---	1,2,12, 21
Y	---	4,5,8
X	DE 44 16 089 A (SCHENK HELGA) 26 October 1995 (1995-10-26) the whole document ---	1-3,12, 13
Y	WO 92 18419 A (CHOI MIN K) 29 October 1992 (1992-10-29) page 10, line 24 - line 28; figures 6,8,13 ---	4,5,8
X	US 5 332 586 A (DI MINO ANDRE) 26 July 1994 (1994-07-26) column 4, line 20 - line 35; figure 3 ---	22,23, 25,26
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *&* document member of the same patent family

Date of the actual completion of the international search

13 June 2001

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 062 808 A (JAGENBERG WERKE AG) 28 May 1981 (1981-05-28) abstract ----	7
A	US 1 793 787 A (ERTOLA, C.A.) 24 February 1931 (1931-02-24) ----	
A	US 4 551 139 A (PLAAS JON R ET AL) 5 November 1985 (1985-11-05) ----	
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A	US 4 627 551 A (KOPP RAUN A) 9 December 1986 (1986-12-09) ----	
A	US 3 913 789 A (MILLER HOBSON F) 21 October 1975 (1975-10-21) ----	
A	US 4 759 472 A (STRENGER MARSHALL C) 26 July 1988 (1988-07-26) -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 00/07465

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-21

A dispenser for viscous material

2. Claims: 22-26

A pouch

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/07465

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