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Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

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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.

(54) Title: AN AUTOMATIC COOKING SYSTEM AND MATERIAL HANDLING SYSTEM WITH MULTIPLE MOTION CONTROL MECHANISM.

(57) Abstract: This invention relates to an automatic cooking system for automating the cooking process. The said system cooks all kind of possible dishes of any type, composition, and shape. It is entirely an automatic method of cooking. The only requirement for the users would be to bring the food items from the market and load in to ACS. And they just have to choose or instruct which food they want to get cooked. The system makes it possible to get the required dish, amount and quality. It also makes it possible to change the composition of the cooked food for the required content, taste and quality. Also it allows multiple dishes to be cooked at the same time. The user can instruct ACS remotely through a communication link and the food will be cooked ready at the specified time.



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INTERNATIONAL SEARCH REPORT

Interr 1 application No.
PCT/IN 2003/000195

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: A47J 37/12, 27/14

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)

IPC⁷: A47J

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 practicable, search terms used)

WPI, EPODOC, PAJ, DEPATISNET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 455 477 A2 (RESTAURANT TECHNOLOGY INC.) 6 November 1991 (06.11.1991) <i>abstract.</i>	1, 15, 27-29
X	US 5 386 762 A (GOKEY) 7 February 1995 (07.02.1995) <i>abstract, claim 1.</i>	1, 15, 27-29
X	EP 0 335 698 A2 (RESTAURANTTECHNOLOGY INC.) 4 October 1989 (04.10.1989) <i>abstract, claim 1.</i>	1, 15, 27-29
X	EP 1 174 667 A1(DAI NIPPON INSATSU KABUSHIKI KAISHA) 16 January 2002 (16.01.2002) <i>claim 1, figure 1.</i>	1, 15, 27-29
X	EP 1 172 752 A1 (DAI NIPPON INSATSU KABUSHIKI KAISHA), 23 January 2002 (23.01.2002) <i>claim 1.</i>	1, 15, 27-29

☐ 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 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

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN 2003/000195

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:

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.:
1, 15, 27, 29

Remark on Protest

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN 2003/000195

In condisation of the specification, the present application comprises the following groups of inventious which cannot be considered linked in such a manner as to form a single inventive concept:

- (1) automatic cooking system (independent claims 1, 15, 27-29)
- (2) a storage system (independent claim 2 and dependent claims 3, 4, 5)
- (3) a packaging system (independent claims 6, 7)
- (4) a cell for general purpose (independent claims 8,13)
- (5) solid circuit for delivery of food ingredients (independent claim 9)
- (6) central food processing unit CFPU (independent claim 10)
- (7) cutter unit (independent claim 11)
- (8) input unit (independent claim 12)
- (9) shaping unit (independent claim 14)
- (10) small solid object transport tube SSOTT (independent claims 16, 17)
- (11) material transfer protocol (independent claim 18)
- (12) multiple motion control mechanism (independent claim 19)
- (13) an gear switching mechanism and GIRISH BOX (independent claims 20-22, 24, 25)
- (14) a power transfer mechanism (independent claim 23)
- (15) a fluid bag (claim 26)

The subject matter of the groups of invention lack any common characteristic and essential features. Consequently, only the parts relating to the claims 1, 15, 27-29 were taken into consideration in establishing this report.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
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