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Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- 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))

[Continued on next page]

(54) Title: REAL-TIME DEMAND SUPPLY CONTROL SYSTEM

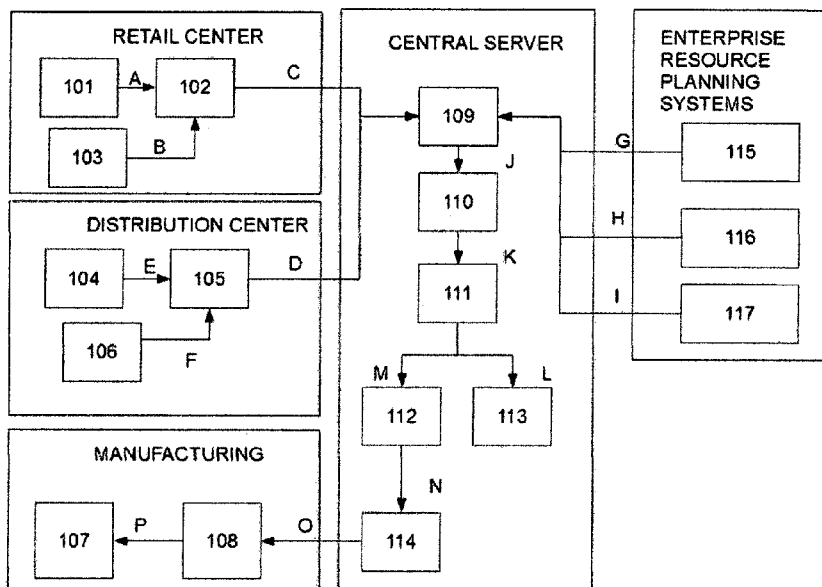


FIG.2

(57) Abstract: The invention relates to a real-time demand and supply control system in a supply chain management. Further, the invention relates to a system for managing 'Just in Time' inventory and overall monitoring and recommending solutions to minimize error conditions in supply chain distribution of any commodity/goods from the manufacturer point to the retailer end. The invention further relates to an automated artificial intelligence environment and system to manage manufacturing unit in response to the deviation in demand and hence reducing the inventory costs as well as losses due to under-supply of commodities.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN2012/000022

A. CLASSIFICATION OF SUBJECT MATTER

G08B13/14 (2006.01) i

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: H04Q;H04W; G06Q; H04L; G08B

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)

CNPAT, CNKI, WPI, EPODOC, 3GPP, IEEE: real time demand supply control chain monitor recommend error

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US2006/0250248A1 (TU, Mengru ET-AL) 09 Nov. 2006 (09.11.2006) paragraphs [0034]-[0166] in description	7
Y	WO2005/067438A2 (KIMBERLY-CLARK WORLDWIDE, INC.) 28 Jul. 2005 (28.07.2005) page 13 line 3-page 34 line 8 in description	7
A	CN1427974A (INVINITY SYSTEMS CORP.) 02 Jul.2003 (02.07.2003) the whole document	1-8

Further documents are listed in the continuation of Box C. See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&”document member of the same patent family</p>
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No. PCT/IN2012/000022

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US2006/0250248A1	09.11.2006	None	
WO2005/067438A2	28.07.2005	EP1730679A2	13.12.2006
CN1427974A	02.07.2003	WO0167356A1	13.09.2001
		AU4910401A	17.09.2001
		US2001051905A1	13.12.2001
		EP1281142A1	05.02.2003
		KR20020092978A	12.12.2002
		JP2003526166A	02.09.2003
		BR0109095A	29.06.2004
		US2004230503A1	18.11.2004
		US2005197929A1	08.09.2005
		MXPA02008814A	01.12.2004
		US2006038010A1	23.02.2006
		US2006041329A1	23.02.2006
		US2006100937A1	11.05.2006
		US2006116936A1	01.06.2006
		US2007055586A1	08.03.2007
		US2007219916A1	20.09.2007
		AU2007205715A1	30.08.2007