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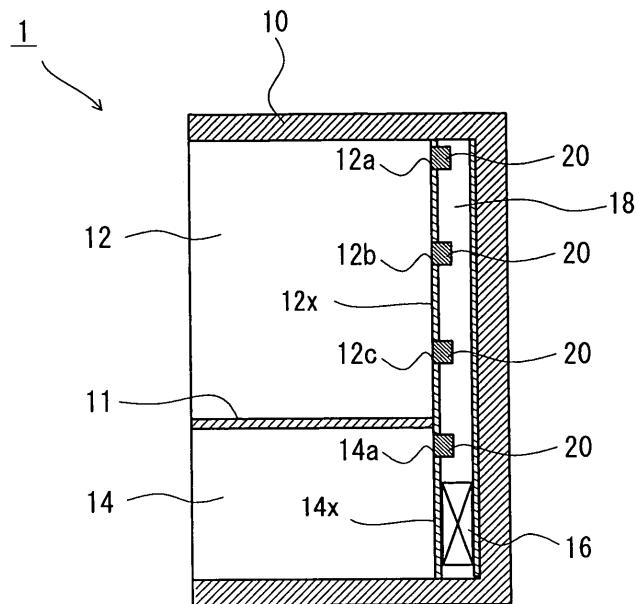
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(54) Refrigerator

(57) A refrigerator includes an accommodating chamber (12, 14), a duct (18) through which cold air flows, and a damper device (20) which is provided with a baffle (24) for controlling supply of the cold air into the accommodating chamber (12, 14). A cold air inflow port (12a, 12b, 12c, 14a) is provided in the duct (18) in a direction

perpendicular to a direction of the cold air flowing through the duct (18) and through which the cold air is supplied to the accommodating chamber (12, 14), and the damper device (20) is provided at the cold air inflow port (12a, 12b, 12c, 14a) so that the baffle (24) is moved in an opposite side to the accommodating chamber (12, 14) to open the cold air inflow port (12a, 12b, 12c, 14a).

Fig. 1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 2005/126205 A1 (SCHMID ALEXANDRE C [BR] ET AL SCHMID ALEXANDRE CURY [BR] ET AL) 16 June 2005 (2005-06-16) * paragraphs [0028], [0045], [0046]; figures 8-12 *	1-3,7,8	INV. F25D17/04
A	----- X DE 40 17 382 A1 (ELTEK SPA [IT]) 20 December 1990 (1990-12-20) * the whole document *	10 1,2,6-9, 11,13,15	
X	US 5 802 867 A (KANG TAE GIL [KR]) 8 September 1998 (1998-09-08) * column 6, line 11 - line 25; figures 8,9 *	1	
X	----- DE 10 2005 057155 A1 (BSH BOSCH SIEMENS HAUSGERAETE [DE]) 31 May 2007 (2007-05-31) * the whole document *	1	
A	----- EP 1 245 915 A (SANKYO SEIKI SEISAKUSHO KK [JP] NIDEC SANKYO CORP [JP]) 2 October 2002 (2002-10-02) * the whole document *	1	TECHNICAL FIELDS SEARCHED (IPC)
	-----		F25D
2 The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		19 June 2009	Jessen, Flemming
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 08 01 0681

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-06-2009

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2005126205	A1	16-06-2005	AU WO CN EP JP MX NZ	2003212126 A1 03071204 A1 1636125 A 1476702 A1 2005517892 T PA04008131 A 534444 A	09-09-2003 28-08-2003 06-07-2005 17-11-2004 16-06-2005 26-11-2004 24-02-2006
DE 4017382	A1	20-12-1990	IT JP	1234286 B 3102171 A	14-05-1992 26-04-1991
US 5802867	A	08-09-1998	AU AU CN DE IT JP JP WO SK	689049 B2 6755796 A 1169184 A 19633385 A1 T0960702 A1 3212612 B2 10507822 T 9707370 A1 51097 A3	19-03-1998 12-03-1997 31-12-1997 13-03-1997 16-02-1998 25-09-2001 28-07-1998 27-02-1997 14-01-1998
DE 102005057155	A1	31-05-2007	CN EP WO	101317051 A 1957895 A1 2007062905 A1	03-12-2008 20-08-2008 07-06-2007
EP 1245915	A	02-10-2002	CN DE JP TW US	1379220 A 60220115 T2 2002295951 A 538228 B 2002139135 A1	13-11-2002 24-01-2008 09-10-2002 21-06-2003 03-10-2002