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(54) Indoor unit of air conditioner

(57) Provided is an indoor unit of an air conditioner. The indoor unit includes a chassis defining a back surface of the indoor unit and a main body provided with a front frame coupled to a front portion of the chassis. The indoor unit further includes a front panel movable coupled to a front surface of the main body, the front panel sucking air through the front surface of the main body in a state where the front panel is spaced from the main body, an inner panel provided between the front frame and the

front panel, a link member connecting the front panel to the inner panel, and a drive unit for driving the link member. When the drive unit operates, the front panel is rotated with respect to the main body such that a distance between one end portion of the front panel and the main body is different from that between the other end portion of the front panel and the main body.



EUROPEAN SEARCH REPORT

Application Number EP 09 25 0128

	03.11. / 1	P P P P		
Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X Y			1-4 5-8, 10-13	INV. F24F1/00 F24F13/20
Υ	LEE SANG HUN [KR] E 29 December 2005 (2 * paragraph [0074]	005-12-29)	5-8,10	
Υ	JP 5 187706 A (TOSH 27 July 1993 (1993- * abstract; figures	07-27)	11-13	
А	EP 1 816 405 A2 (LG 8 August 2007 (2007 * abstract; figures	ELECTRONICS INC [KR]) -08-08) *	1	TEQUINIQAL FIFLIDO
				TECHNICAL FIELDS SEARCHED (IPC)
				F24F
	The present search report has l	peen drawn up for all claims	7	
	Place of search	Date of completion of the search		Examiner
	The Hague	9 March 2011	Mat	ttias Grenbäck
C	ATEGORY OF CITED DOCUMENTS	T : theory or princi	l ple underlying the	invention
Y∶part docu	icularly relevant if taken alone icularly relevant if combined with anot Iment of the same category nological background	E : earlier patent d after the filing d ner D : document cited L : document cited	ocument, but publ ate I in the application for other reasons	ished on, or

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

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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.

09-03-2011

Patent documer cited in search rep		Publication date		Patent family member(s)	Publication date
EP 1801512	A1	27-06-2007	AU CN WO US	2005260871 A1 1985131 A 2006006622 A1 2008016897 A1	19-01-2 20-06-2 19-01-2 24-01-2
US 20052841	58 A1	29-12-2005	EP WO	1774226 A2 2006001563 A2	18-04-2 05-01-2
JP 5187706	Α	27-07-1993	NONE		
EP 1816405	A2	08-08-2007	AU WO US	2006337754 A1 2007091764 A2 2010242518 A1	16-08-2 16-08-2 30-09-2