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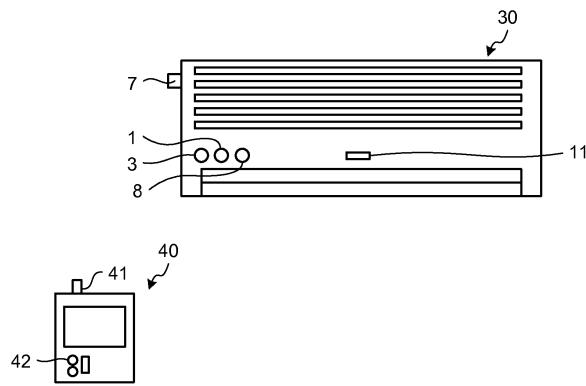
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(54) INDOOR UNIT OF AIR CONDITIONER

(57) An indoor unit (30) of an air conditioner, includes: a first detection unit (2) that detects a human present in a space where the indoor unit of an air conditioner is provided, using audio data detected by a sound collecting unit (3); a second detection unit (21) that detects a human present in the space using imaging data from an imaging unit (11) that captures an image of the space; a signal reception unit (7) that receives an operation signal from a remote control unit (40) of the indoor unit; and a control unit (20) that controls an operation of the indoor unit on a basis of detection information from the first detection unit, detection information from the sec-

ond detection unit, and an operation signal from the signal reception unit, and causes audio guidance indicating that the air conditioner is to be shifted to a power saving state to be output from an audio output unit (1), when any of the detection information from the first detection unit, the detection information from the second detection unit, and an operation signal from the signal reception unit is not input before a first time elapses from a point in time when both the first detection unit and the second detection unit no longer detect a human present in the space after the air conditioner starts operating.

FIG.1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2002/134849 A1 (DISSER JAMES R [US]) 26 September 2002 (2002-09-26) * paragraph [0023] - paragraph [0055] * * figures *	1-6	INV. F24F11/00 F24F1/00
X	----- US 2012/296487 A1 (LEINEN RICHARD A [US] ET AL) 22 November 2012 (2012-11-22) * paragraph [0029] - paragraph [0055] * * figures *	1,3	
X	----- US 2013/138250 A1 (MOWERY KEITH [US] ET AL) 30 May 2013 (2013-05-30) * paragraph [0032] - paragraph [0050] * * figures *	1,3	
X	----- US 2012/313588 A1 (CARBERRY BRIAN J [US] ET AL) 13 December 2012 (2012-12-13) * paragraph [0010] - paragraph [0053] *	1,3	
A,D	----- JP 2008 072213 A (FUNAI ELECTRIC CO) 27 March 2008 (2008-03-27) * abstract; figures *	1	TECHNICAL FIELDS SEARCHED (IPC)
	-----		F24F
1	The present search report has been drawn up for all claims		
	Place of search	Date of completion of the search	Examiner
	Munich	10 September 2015	Mattias Grenbäck
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			
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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.

10-09-2015

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	Patent document cited in search report	Publication date	Patent family member(s)		Publication date
	US 2002134849 A1	26-09-2002	NONE		
15	US 2012296487 A1	22-11-2012	CN US	102789174 A 2012296487 A1	21-11-2012 22-11-2012
	US 2013138250 A1	30-05-2013	NONE		
20	US 2012313588 A1	13-12-2012	US WO	2012313588 A1 2011105994 A1	13-12-2012 01-09-2011
	JP 2008072213 A	27-03-2008	JP JP US	4876806 B2 2008072213 A 2008062333 A1	15-02-2012 27-03-2008 13-03-2008
25			-----		
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55	EPO FORM P0459		For more details about this annex : see Official Journal of the European Patent Office, No. 12/82		