

(11) **EP 2 551 432 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 26.11.2014 Bulletin 2014/48

(51) Int Cl.: **E05D 11/00** (2006.01)

E05D 15/40 (2006.01)

(43) Date of publication A2: 30.01.2013 Bulletin 2013/05

(21) Application number: 12178070.4

(22) Date of filing: **26.07.2012**

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR Designated Extension States:

BA ME

(30) Priority: 29.07.2011 JP 2011166256

(71) Applicant: Sugatsune Kogyo CO., LTD. Tokyo 101-8633 (JP)

(72) Inventor: Kashiwaguma, Kazuaki Tokyo 101-8633 (JP)

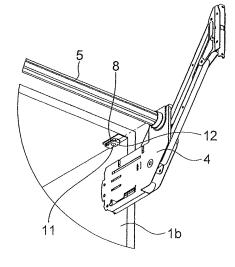
(74) Representative: Klunker . Schmitt-Nilson . Hirsch Patentanwälte
Destouchesstraße 68
80796 München (DE)

(54) Door Opening/Closing Device With Support Member And Support Member For Door Opening/Closing Device

(57) Provided is a door opening/closing device with a support member capable of positioning the door opening/closing device at a proper position of a housing and facilitating the mounting work of the door opening/closing device to the housing. The door opening/closing device with a support member has the support member 8 which is mountable on a housing 1; and a door opening/closing device which is mounted on the support member 8 and

configured to move a door 2 relative to the housing 1. The support member 8 has a first positioning part 10a for positioning at a front surface of one of an upper plate 1a and a side wall 1b of the housing 1, and a second positioning part 10b which is able to be placed against the other of the upper plate 1a and the side wall 1b of the housing 1.





DETAIL VIEW OF PORTION II

:P 2 551 432 A3



EUROPEAN SEARCH REPORT

Application Number

EP 12 17 8070

Category	Citation of document with ir of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
X	EP 0 851 084 A1 (EL 1 July 1998 (1998-0 * column 2, line 17 * figures 1-5 *	ECTROLUX AG [CH]) 17-01) '- column 3, line 46 *	a 3, line 46 * E05D11/00 ADD.		
A	EP 2 206 863 A1 (SU 14 July 2010 (2010- * paragraphs [0014] * figures 1,3 *	GATSUNE KOGYO [JP]) 07-14) - [0018] *	1,2	E05D15/40	
A	[AT]) 16 October 19	- page 12, line 21 *	1,2		
				TECHNICAL FIELDS	
				SEARCHED (IPC)	
	The present search report has l	been drawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	The Hague	15 October 2014	K1e	Klemke, Beate	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with anoth document of the same category A: technological background O: non-written disclosure P: intermediate document		L : document cited fo	shed on, or		

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

EP 12 17 8070

5

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.

15-10-2014

15

	Patent document cited in search report			Patent family member(s)		Publication date	
	EP 0851084	A1	01-07-1998	DE EP	59603302 D1 0851084 A1	11-11-1999 01-07-1998	
	EP 2206863	A1	14-07-2010	EP JP JP WO	2206863 A1 4823993 B2 2009084965 A 2009044814 A1	14-07-2010 24-11-2011 23-04-2009 09-04-2009	
	DE 3605637	A1	16-10-1986	DE IT US	3605637 A1 1189875 B 4783131 A	16-10-1986 10-02-1988 08-11-1988	
- 1							

20

25

30

35

40

45

50

55

FORM P0459

 $\frac{\circ}{\mathsf{u}}$ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82