



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
24.01.2018 Bulletin 2018/04

(51) Int Cl.:
E05F 15/16 ^(0000.00) **E05D 15/24** ^(2006.01)
E05D 5/06 ^(2006.01)

(43) Date of publication A2:
20.11.2013 Bulletin 2013/47

(21) Application number: **13167669.4**

(22) Date of filing: **14.05.2013**

(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

(71) Applicant: **Assa Abloy Entrance Systems AB**
261 22 Landskrona (SE)

(72) Inventor: **Brunner, Maximilian**
84079 Bruckberg (DE)

(74) Representative: **Zacco Sweden AB**
P.O. Box 5581
114 85 Stockholm (SE)

(30) Priority: **14.05.2012 SE 1250492**

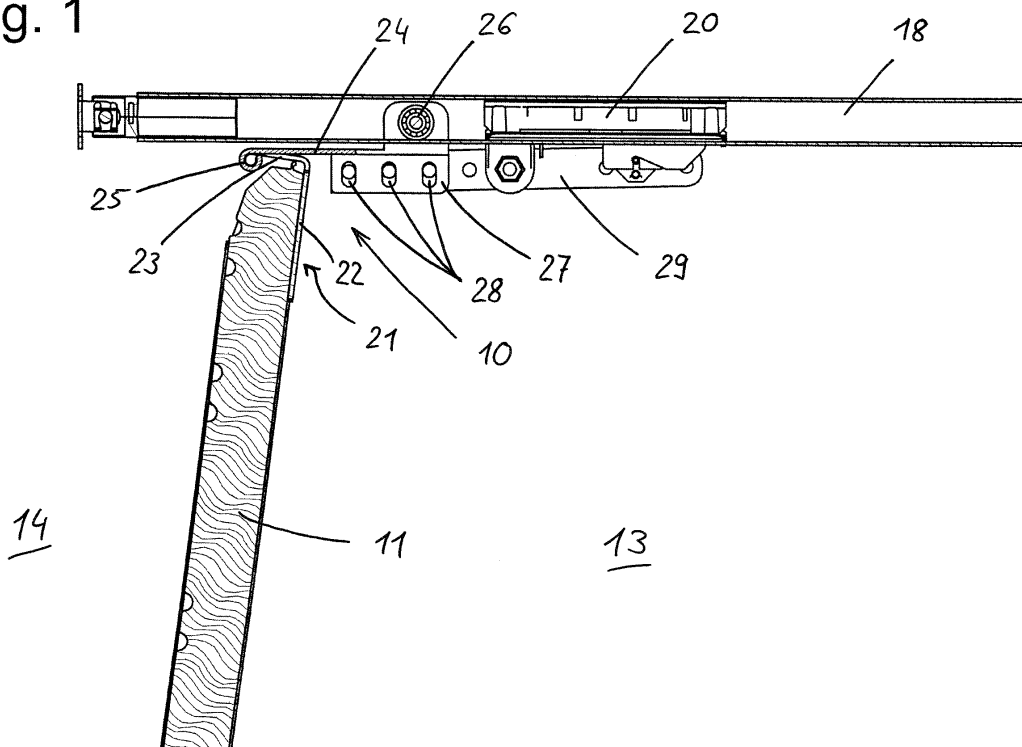
(54) **Hinge mechanism for connecting a door panel to a door driving device**

(57) The invention relates to a hinge mechanism (10) for connecting a door panel (11) to a door driving device, comprising a fitting (21) having an attachment section (22) for attachment to an inside surface of a door panel (11), and a lever section (23) which is adapted to extend above an upper edge of the door panel (11) in an outwards direction; a bracket (24) for attachment to a driving

mechanism, and a hinge (25) connecting the fitting (21) and the bracket (24) rotatably about a hinge axis, the hinge (25) being located at the outside end of the lever section (23).

Further, the invention relates to a door panel driving arrangement having such a hinge mechanism.

Fig. 1





EUROPEAN SEARCH REPORT

Application Number
EP 13 16 7669

5

10

15

20

25

30

35

40

45

50

55

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	DE 20 2004 019254 U1 (WEIL LOTHAR [DE]) 7 April 2005 (2005-04-07) * paragraphs [0048], [0051], [0058], [0059] * * figures 1-3 *	1-10	INV. E05F15/16 E05D15/24 ADD. E05D5/06
X	US 3 695 332 A (BAHNSEN ERWIN B) 3 October 1972 (1972-10-03) * column 4, lines 6-12 * * column 5, line 60 - column 6, line 35 * * column 7, lines 5-11 * * column 8, lines 23-34 * * column 10, lines 32-41 * * figures 1,2,4,5 *	1-3,5,8,9 4,6,7,10	
A	US 2004/034969 A1 (WEGMAN THOMAS [US]) 26 February 2004 (2004-02-26) * paragraphs [0094], [0095] * * figures 22,25,31 *	1-6 7-10	
A	GB 1 480 733 A (KING W) 20 July 1977 (1977-07-20) * page 2, lines 10-20,34-41 * * figures 3,5 *	1-10	TECHNICAL FIELDS SEARCHED (IPC) E05D E05F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 15 December 2017	Examiner Wagner, Andrea
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	

EPO FORM 1503 03/02 (P04C01)

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

EP 13 16 7669

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.

15-12-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 202004019254 U1	07-04-2005	DE 102004059895 A1 DE 202004019254 U1	01-09-2005 07-04-2005
US 3695332 A	03-10-1972	NONE	
US 2004034969 A1	26-02-2004	AU 2003259942 A1 AU 2003263913 A1 US 2004034969 A1 WO 2004018813 A2 WO 2004018814 A1	11-03-2004 11-03-2004 26-02-2004 04-03-2004 04-03-2004
GB 1480733 A	20-07-1977	NONE	