

(11) **EP 2 634 352 A3**

(12)

EP 2 634 352 A3

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 30.03.2016 Bulletin 2016/13

(51) Int Cl.: **E06B** 9/06 (2006.01)

E04D 13/03 (2006.01)

(43) Date of publication A2: **04.09.2013 Bulletin 2013/36**

(21) Application number: 13157129.1

(22) Date of filing: 28.02.2013

(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

(30) Priority: 28.02.2012 DK 201270092

(71) Applicant: VKR Holding A/S 2970 Hørsholm (DK)

(72) Inventors:

 Jørgensen, Henrik Skårup 6900 Skjern (DK)

 Kristensen, Jonas 6900 Skjern (DK)

(74) Representative: Awapatent A/S Rigensgade 11

1316 Copenhagen K (DK)

(54) A roof light shutter device with stacked shutter plates

(57) The invention relates to a roof window shutter device (1) for screening an opening, comprising a plurality of mutually articulated shutter plates (11), a drive mechanism (17) for movement of the shutter plates (11) between a storage position in a top casing (8) and a screening position with the shutter plates (11) positioned in front of the opening, wherein the top casing (8) comprises opposing first guide tracks (19) and opposing second guide tracks (20) wherein first slide members (27) and second slide members (28) of the shutter plates (11) are guided, wherein adjacent shutter plates (11) are in-

terconnected by connecting members (29) with a first connecting portion (31 a) pivotally connected and a second connecting portion (31 b) slidably and pivotally connected to adjacent side portions (15) of the adjacent shutter plates (11), and wherein the opposing side portions (15) of the shutter plates (11) are provided with a guide (30) guiding the second connecting portion (31 b) of the connecting members (29) during movement of the shutter plates (11) between the storage position and the screening position.

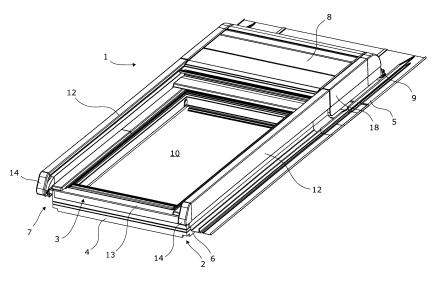


Fig. 1

DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate, of relevant passages



Category

EUROPEAN SEARCH REPORT

Application Number

EP 13 15 7129

CLASSIFICATION OF THE APPLICATION (IPC)

Relevant

to claim

5

10

15

20

25

30

35

40

45

50

55

A,D	DE 29 47 501 A1 (BA HERMANN) 27 May 198 * figures 1-3,8 *			1-15	INV. E06B9/06 E04D13/03	
A	US 1 886 105 A (JUI 1 November 1932 (19 * figures 1,5,7,8,9	932-11-01)	E)	1-15		
A	DE 26 23 359 A1 (H0 13 January 1977 (19 * figures 1,2,3,6,7)	977-01-13)	RIC COMM)	1-15		
					TECHNICAL FIELDS SEARCHED (IPC)	
					E06B	
					E04D	
	The present search report has	been drawn up for al	l claims			
Place of search		Date of con	npletion of the search Exami		Examiner	
X : parl Y : parl doci A : tech O : nor P : inte	Munich	23 Fe	bruary 2016	Tän	zler, Ansgar	
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 8: member of the same patent family, corresponding document			

EP 2 634 352 A3

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

EP 13 15 7129

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.

23-02-2016

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	DE 2947501 A1	27-05-1981	CH 634630 A5 DE 2947501 A1	15-02-1983 27-05-1981
15	US 1886105 A	01-11-1932	NONE	
20	DE 2623359 A1	13-01-1977	AU 1511276 A DE 2623359 A1 FR 2317471 A1 IT 1061146 B	05-01-1978 13-01-1977 04-02-1977 20-10-1982
25				
30				
35				
40				
45				
50				
55 65459				

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82