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(54) **Roofwindow frame structure and roofwindow**

(57) The present invention relates to a roof window structure and a roof window installed therewith, comprising at least one horizontal part, the top edge of the front surface of the horizontal part extends forward and then gradually downward to the front bottom edge of the horizontal part. Between the top edge and bottom edge of the horizontal part there forms at least one operative surface that cooperates with a flashing part connected to

the window. The operative surface can be a curved concave surface; it well protects the flashing part. The operative surface also has at least one front top edge extending outward then exceeding the covering connected with the sash, thus well protects the covering. The exterior surface of the frame is configured a sloped surface along the basic edge facing outwards and along the glass of the window. This configuration saves the material for the frame and lowers the production cost.

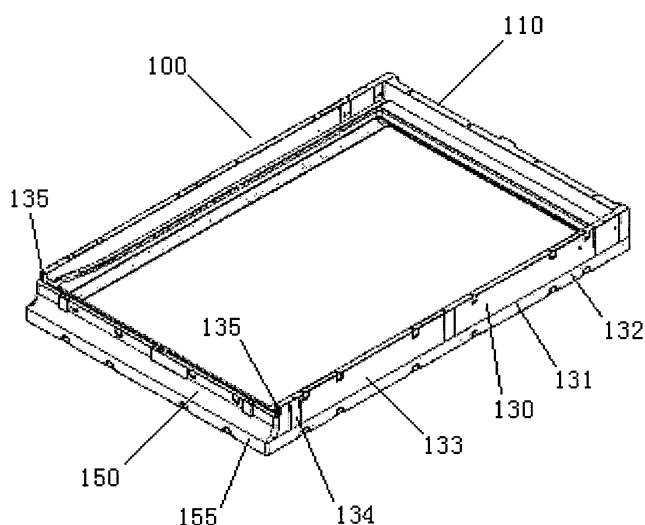


Fig. 1



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EUROPEAN SEARCH REPORT

Application Number
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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 | WO 98/22684 A (RASMUSSEN KANN IND AS [DK]; CHRISTENSEN JAN VILHELM [DK]) 28 May 1998 (1998-05-28) * figures 1-4 * | 1,2,4,7,8 | INV. E04D13/035 |
| X | DE 20 00 450 A1 (HOEGANAES AB) 16 July 1970 (1970-07-16) * figure 3 * | 1,2,4,7,8 | |
| A | US 4 776 141 A (POWELL J WILLIAM [US]) 11 October 1988 (1988-10-11) * figure 6 * | 1,7 | |
| | | | TECHNICAL FIELDS SEARCHED (IPC) |
| | | | E04D |
| The present search report has been drawn up for all claims | | | |
| Place of search | | Date of completion of the search | Examiner |
| The Hague | | 20 February 2008 | Kriekoukis, Sotirios |
| 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 | | | |

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

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The members are as contained in the European Patent Office EDP file on
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20-02-2008

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|------------------------|
| WO 9822684 | A | 28-05-1998 | AT 203088 T 15-07-2001 |
| | | AU 5048198 A | 10-06-1998 |
| | | CA 2271119 A1 | 28-05-1998 |
| | | DE 69705641 D1 | 16-08-2001 |
| | | DE 69705641 T2 | 02-05-2002 |
| | | DK 132096 A | 20-05-1998 |
| | | EA 671 B1 | 28-02-2000 |
| | | EP 0951609 A1 | 27-10-1999 |
| | | ES 2161451 T3 | 01-12-2001 |
| | | HU 9904619 A2 | 28-04-2001 |
| | | JP 2001504186 T | 27-03-2001 |
| | | PL 183109 B1 | 31-05-2002 |
| | | US 6167661 B1 | 02-01-2001 |
| DE 2000450 | A1 | 16-07-1970 | SE 330249 B 09-11-1970 |
| US 4776141 | A | 11-10-1988 | NONE |