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(54) **A window sash adapted for standardized manufacture**

(57) This invention discloses a window sash adapted for standardized manufacture, which comprises a basic sash frame and extra side plates fastened to outer surfaces of side sash members of the basic sash frame. Said basic sash frame consists of a standardized element of a sash, such that the sash frame is adapted for standardized manufacture and suitable for different types of windows. The extra side plates may be diversely configured for different types of windows. Therefore, a sash of this type may be economically, efficiently and effectively manufactured, while at the same time the installation, usage, service and management thereof is greatly facilitated. Said extra side plates define a sealing groove in a longitudinal direction of the sash frame, and a gasket is received in said sealing groove to seal a gap between a window frame and the window sash. A plurality of supports may be arranged on said extra side plates to support side coverings, so that the strength of the covering is efficiently improved.

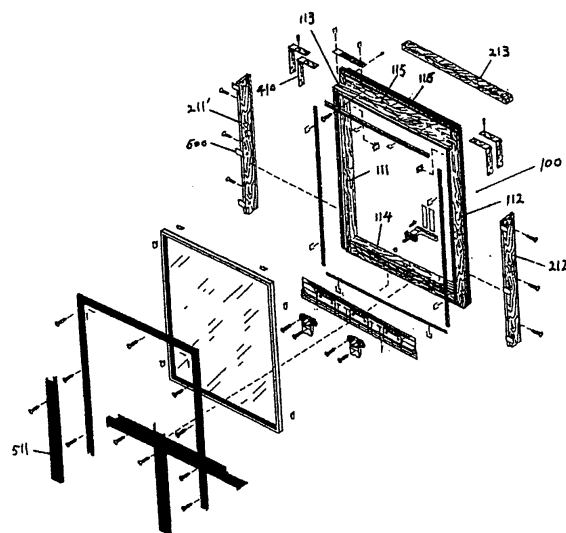


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 05 38 8117

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 2 632 927 A (EJNAR JARNLAND SVEN GUSTAV) 31 March 1953 (1953-03-31) * figures 2,3 * * column 2, line 9 - line 46 * -----	1,2,5,8, 9,13,15	INV. E04D13/035
X	WO 98/22683 A (RASMUSSEN KANN IND AS [DK]; DYRBY ERIK BJOERN [DK]; KORNERUP KLAUS [DK]) 28 May 1998 (1998-05-28) * figure 2 * * page 3, line 10 - line 15 * -----	1,2	
X	DE 17 84 712 A1 (RASMUSSEN V B K) 12 August 1971 (1971-08-12) * figure 2 * * page 4, paragraph 2 * -----	1,5	
Y	* page 4, paragraph 2 *	6,7	
X	US 2 552 024 A (ANGUS HAROLD F ET AL) 8 May 1951 (1951-05-08) * figure 5 * -----	1	
Y	* figure 5 *	6,7	TECHNICAL FIELDS SEARCHED (IPC)
X	DE 12 73 366 B (EVERS & CO AKTIEBOLAG) 18 July 1968 (1968-07-18) * figure 2 * -----	1,14	E04D E06B
<p>6 The present search report has been drawn up for all claims</p>			
Place of search The Hague		Date of completion of the search 20 November 2008	Examiner Bauer, Josef
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- 1-21
- ☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-21

A window construction kit comprising extra side plates for
different types of windows

2. claims: 22-33

A support to carry a side sash covering

**ANNEX TO THE EUROPEAN SEARCH REPORT
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
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20-11-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2632927	A	31-03-1953	NONE	

WO 9822683	A	28-05-1998	AT 213048 T	15-02-2002
			AU 5048098 A	10-06-1998
			CA 2270449 A1	28-05-1998
			CZ 9901774 A3	13-12-2000
			DE 69710366 D1	21-03-2002
			DE 69710366 T2	19-09-2002
			DK 131996 A	20-05-1998
			EP 0948694 A1	13-10-1999
			HU 0000092 A2	28-05-2000
			JP 3990462 B2	10-10-2007
			JP 2001504185 T	27-03-2001
			PL 183113 B1	31-05-2002
			US 6578326 B1	17-06-2003

DE 1784712	A1	12-08-1971	FR 1579814 A	29-08-1969

US 2552024	A	08-05-1951	NONE	

DE 1273366	B	18-07-1968	NONE	
