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(54) **AUTOMATIC SLIDING FIRE DOOR**

(57) The present invention belongs to the field of construction, more precisely to the field of door for special purposes, particularly for preventing fire expansion. The invention relates to automatic sliding fire door with swing leafs, which can operate in a sliding or swing manner, wherein no protruding elements such as door handles and panic bars are required for opening said door leafs.

The door comprises a longitudinal holder - door drive unit, into which at least one sliding door leaf is installed via a trolley so that the leaf may be moved in a sliding manner. The sliding door leaf comprises a leaf and a sliding doorframe, onto which the leaf is mounted with at least one hinge for allowing opening in the swing mode. The door further comprises a self-closure for self-closing of swing leaf integrated in the sliding doorframe, a flexible tube sealing in a groove between the leaf and the doorframe or between two leafs an assembly for forced closure of sliding leafs in emergency, and a recessed handle for pulling the door leaf in the swing mode. In emergency cases passage through the door is allowed by pushing the door open from one side and by pulling the recessed handle from the other side.

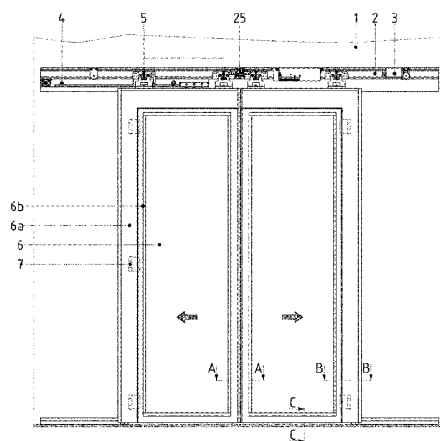


Figure 1a

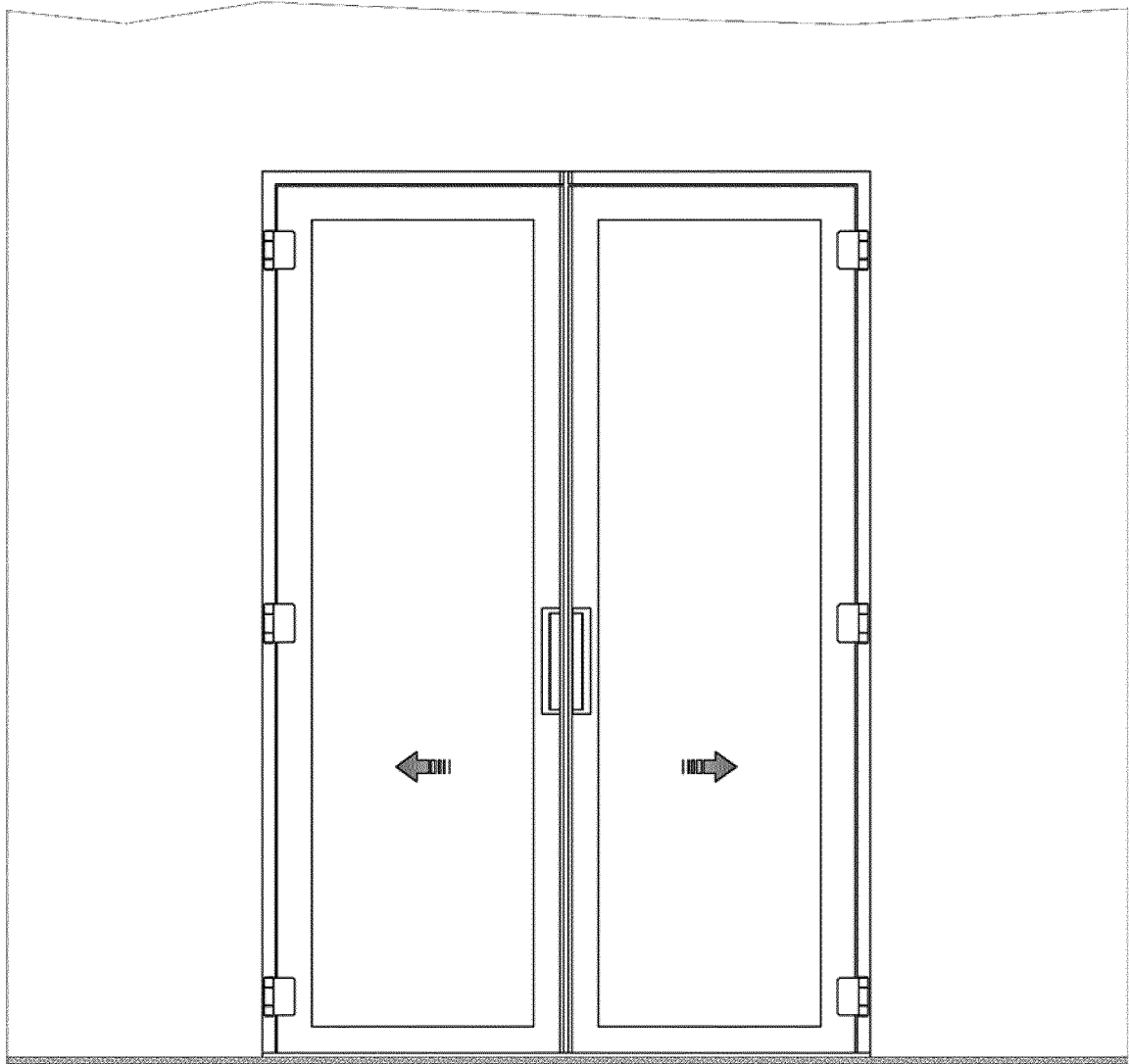


Figure 1b



EUROPEAN SEARCH REPORT

Application Number
EP 20 15 1342

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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 2006/096142 A2 (DOORSON D O O [SI]; PAK MILAN [SI] ET AL.) 14 September 2006 (2006-09-14) * page 7, paragraph 3 - page 10, paragraph 3 * * figures 1-3,7 *	1-4	INV. E05F1/00 E05F1/16 E05F15/643 E05F15/646 E06B5/16
A	GB 2 106 972 A (DIXON INTERNATIONAL LTD [GB]) 20 April 1983 (1983-04-20) * figure 1A *	4	
			TECHNICAL FIELDS SEARCHED (IPC)
			E05F E05D E06B
2 The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		7 July 2020	Prieto, Daniel
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 03.82 (P04C01)



Application Number

EP 20 15 1342

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:

1-4

☐ 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

EP 20 15 1342

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: 1-4

Automatic sliding door seals.

2. claims: 1, 5, 6

Automatic sliding fire door with a fire profile.

3. claims: 1, 7

Automatic sliding fire door with a safety rubber.

4. claims: 1, 8, 9

Automatic sliding fire door which is pretensed.

5. claims: 1, 10

Automatic sliding fire door with profiles comprising elongated holes and tongues.

6. claims: 1, 11

Automatic sliding fire door with fire resistant metal plates on the glazing beads.

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

EP 20 15 1342

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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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-07-2020

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006096142 A2	14-09-2006	SI 22012 A WO 2006096142 A2	31-10-2006 14-09-2006
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GB 2106972 A	20-04-1983	NONE	
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EPO FORM P0459

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