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(54) **Hinged door for elevator or lift platform**

(57) A hinged door (P) for elevator or lift platform, comprising at least one wing (4) suitable to be hinged to an upright (M), **characterized in that** said wing (4) comprises a frame structure defined by at least one vertical jamb (1) connected to said upright (M), a glass or crystal glass (6), curved in shape, fastened to said jamb (1), said jamb (1) being defined by at least one outward facing covering element (R) produced in various prestigious material suitable to be applied by means of interlocking and/or sliding.

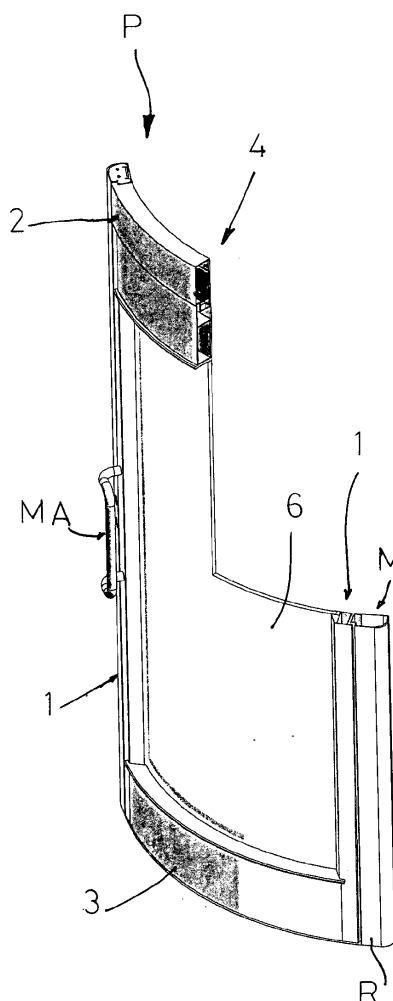
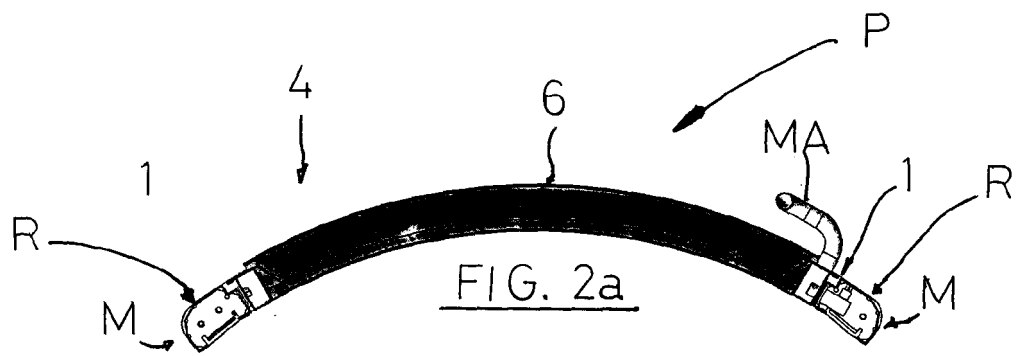


FIG. 1a



Description

FIELD OF THE INVENTION

[0001] The present invention relates to a hinged door for elevator or lift platform.

[0002] The present invention is advantageously used in the sector of elevators or lift platforms in general, in particular mounted and in use in watercraft, such as ships, boats or motor yachts with more than one bridge, to which the description below will explicitly refer without loss of generality.

PRIOR ART

[0003] In general, on watercraft or yachts of medium or large size with more than one bridge, the use is known of internal elevators or lift platforms, through which it is possible to rapidly reach and easily access, from inside the boat, bridges in higher position, such as the command bridge, known with the term "flybridge".

[0004] As these boats are very often equipped with high range ornamental interior and also exterior furnishings and fitted with highly prestigious and sophisticated materials, currently the various components of the aforesaid internal elevators are also required to have aesthetics and materials in keeping with the degree of luxury and sophistication expressed in the fittings.

SUMMARY OF THE INVENTION

[0005] The object of the present invention is to produce a hinged door for elevator or lift platform which is perfectly compatible and easily adaptable to the context of the prestigious furnishings and fittings of the surrounding environments.

[0006] Another object of the present invention is to produce a hinged door for elevator which can also be installed in small spaces, without penalizing operation of the electromechanical components thereof.

[0007] According to the present invention, there is produced a hinged door for elevator or lift platform, comprising at least one leaf suitable to be hinged to an upright, **characterized in that** said door comprises a frame structure defined by at least one vertical jamb connected to said upright, a glass or crystal glass, curved in shape, fastened to said jamb, said jamb being defined by at least one outward facing covering element produced in various prestigious material suitable to be applied by means of interlocking and/or sliding.

DESCRIPTION OF THE FIGURES

[0008] The technical features of the invention, according to said object, can clearly be found in the content of the appended claims, and the advantages thereof will be more apparent in the detailed description below provided with reference to the accompanying figures which schematically show some preferred but non-limiting embodiments of the door for lift platform in question, wherein:

- Figs. 1 a and 1 b respectively show two preferred embodiments of the door in question, represented in a partially sectional perspective view and with parts removed for clarity;
- Figs. 2a and 2b are respective flat cross sectional views of the two embodiments shown in Figs. 1 a and 1 b;
- Figs. 3a and 3b are respective vertical sectional views of the two embodiments shown in Figs. 1 a and 1 b;
- Figs. 4a, 4b and 4c show, in respective perspective views and in enlarged scale, some components of the door of the present invention according to the two embodiments.

DESCRIPTION OF THE INVENTION

[0009] With reference to the accompanying figures, P indicates as a whole a door suitable to be mounted on the structure of an elevator or lift platform (known and not shown), used preferably but not exclusively in watercraft, such as ships, boats or motor yachts with more than one bridge (also known and not shown).

[0010] According to what is shown in the embodiment of Figs. 1a, 2a, and 3a, the door P is of the type called *round door* or RD and comprises a single leaf or wing 4, said wing 4 in turn comprising a pair of vertical elements or lateral jambs 1 shaped and appropriately sized, a pair of appropriately sized upper 2 and lower 3 cross members and a glass or crystal glass 6 installed and appropriately fastened without visible screws to the pairs of jambs 1 and cross members 2, which thus together define a support structure or frame of the crystal glass 6.

[0011] The wing 4 of the door P, and therefore the aforesaid cross members 2 and 3 and the crystal glass 6, has a curved, semi-circular or arc of circle shaped section (Fig. 2a), is hinged to only one of the lateral jambs 1, by means of specific known pintles, advantageously concealed inside the jamb 1 and forming an integral part of the aforesaid elevator structure, and has a handle MA, suitable to be grasped by the user to pull the wing 4 towards himself and to allow opening thereof by means of rotation of the wing 4 about said pintles. Due to its particular configuration, the door P can be easily installed even in small spaces.

[0012] According to what is shown in Figs. 4c, 1 a and 2a, each jamb 1 is connected to an upright M of the elevator structure, and both jamb 1 and upright M are defined by a covering element R facing and visible from the outside, which is suitable to be appropriately and easily coupled by interlocking and/or through sliding guide vertically on the jamb 1 and upright M.

[0013] This element R is produced with materials of various type and with high range aesthetic and ornamental features specifically chosen to be in keeping and per-

fectly compatible with the aesthetic features of the internal furnishings and fittings of said watercraft.

[0014] For example, the element R can be made of stainless steel, or covered in gold, leather, fabric or other similar prestigious and luxury materials.

[0015] According to an embodiment not shown, the wing 4 does not have the upper and lower cross members 2 and 3 and therefore is made entirely of glass or crystal glass, a lateral vertical part of which is hinged to a single jamb 1.

[0016] The wing 4, according to what is shown in Fig. 4a, is also equipped at the top, on the upper cross member 2, with electric safety locks 7 suitable in a known manner to block opening of the wing 4 when the aforesaid elevator is not on the floor of the wing 4, and also with shock absorbers (known and not shown) for re-closing the wing 4, and with removable bridge contacts (also known and not shown).

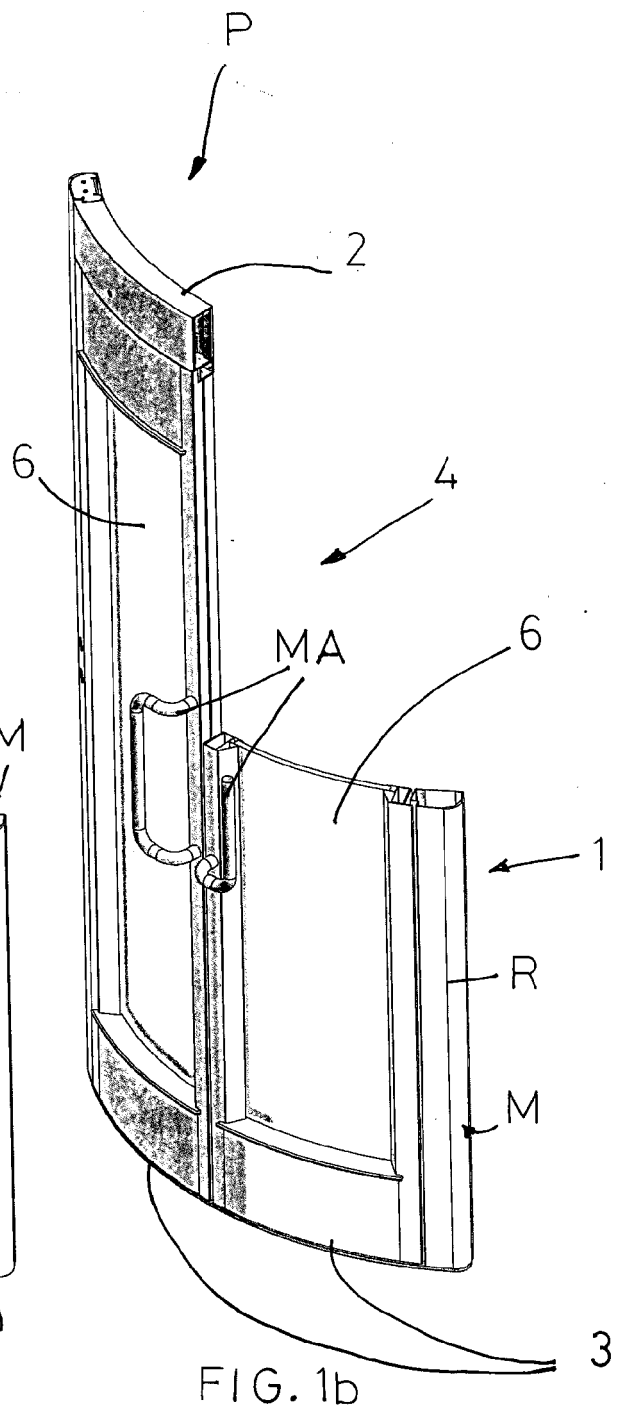
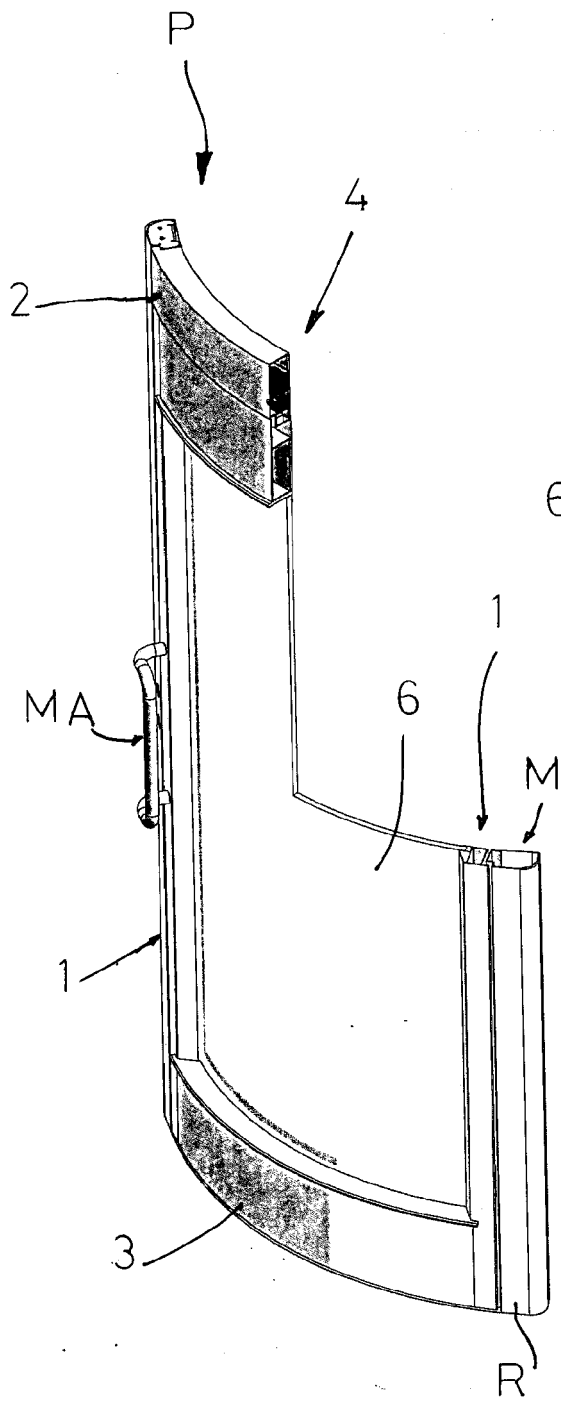
[0017] According to what is shown in the alternative embodiment shown in Figs. 1b, 2b, 3b and 4b, the door P comprises two leaves or wings 4 adjacent and symmetrically coupled, each of which is defined by the same elements of the above-described single wing 4 shown in the embodiment of Figs. 1a, 2a, 3a and 4a.

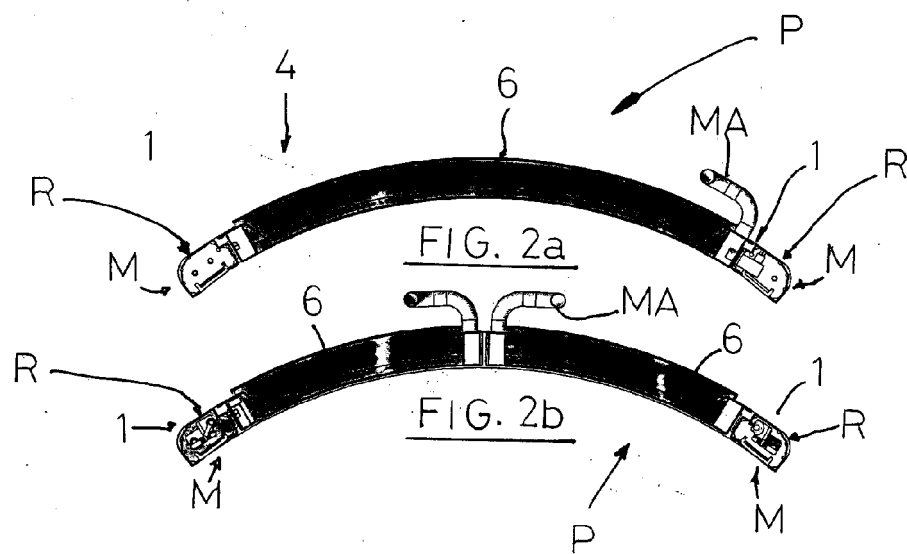
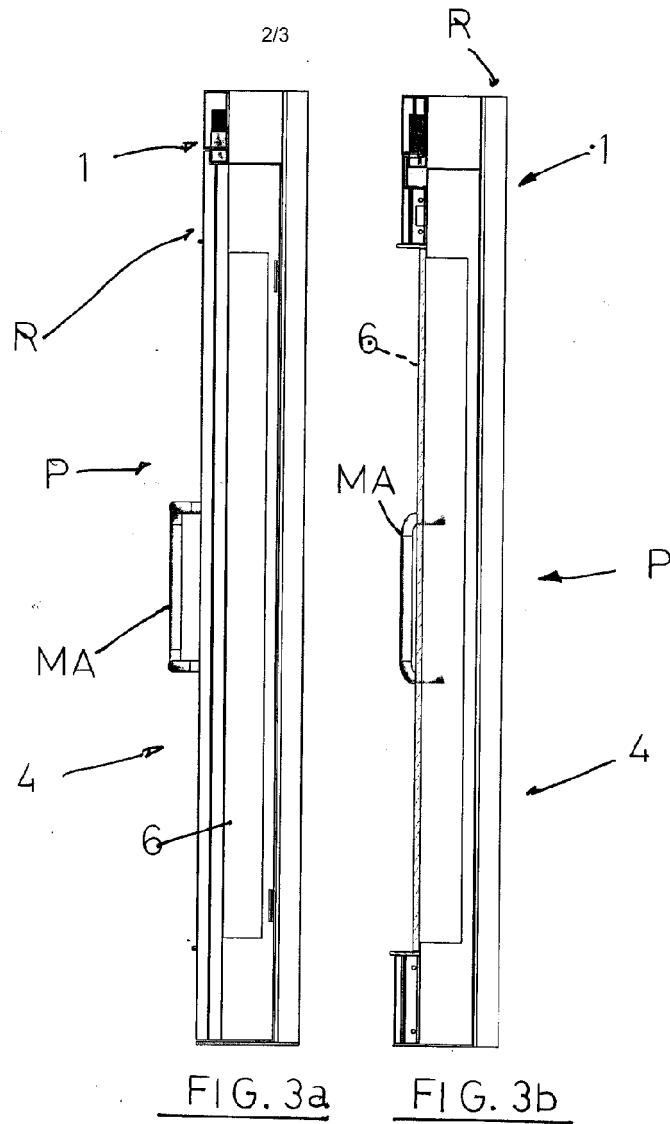
[0018] The invention thus conceived is susceptible to numerous modifications and variants, all falling within the inventive concept; moreover all details can be substituted by other technically equivalent details.

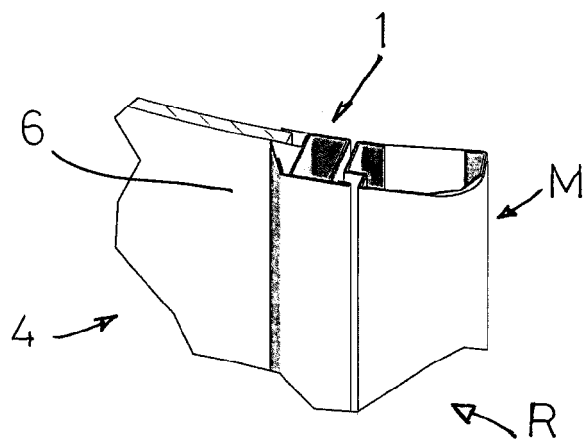
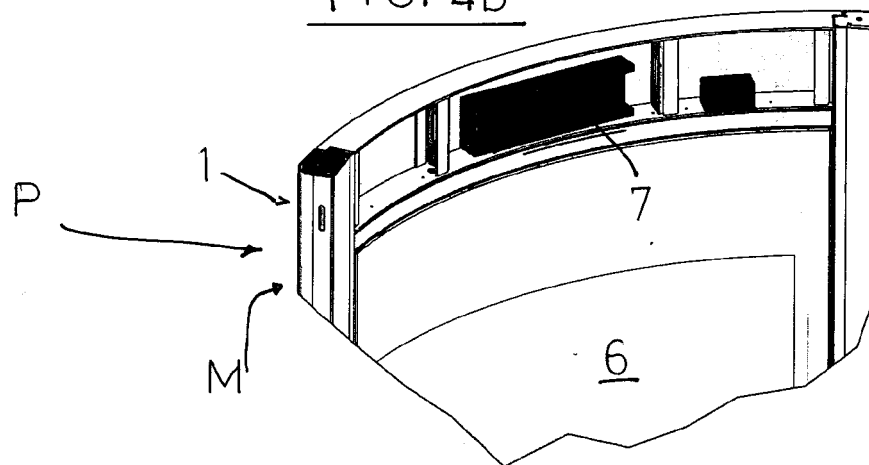
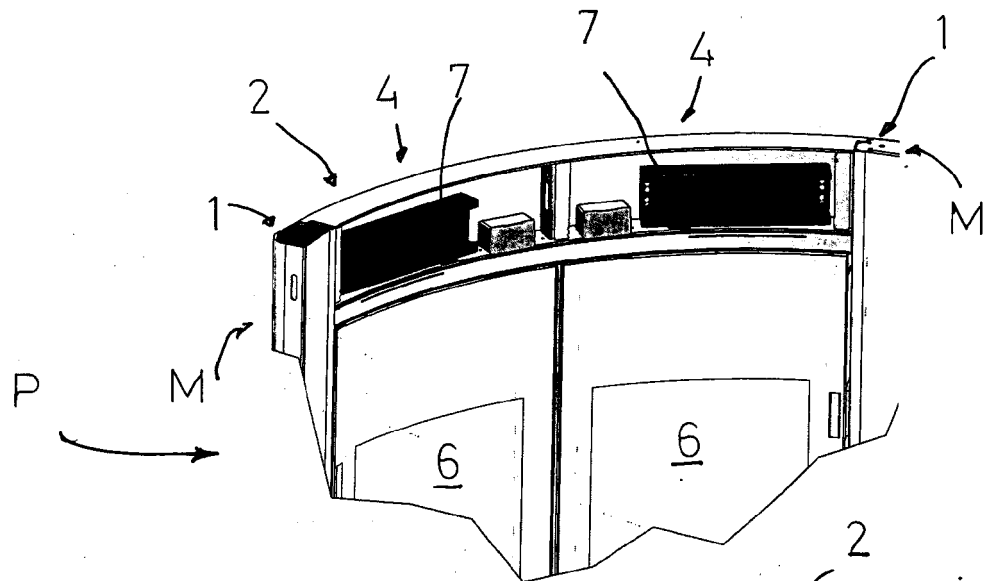
6. Elevator or lift platform, in particular for boats or watercraft, comprising a door according to one or more of the preceding claims from 1 to 5.

Claims

1. A hinged door (P) for elevator or lift platform, comprising at least one wing (4) suitable to be hinged to an upright (M), **characterized in that** said wing (4) comprises a frame structure defined by at least one vertical jamb (1) connected to said upright (M), a glass or crystal glass (6), curved in shape, fastened to said jamb (1), said jamb (1) being defined by at least one outward facing covering element (R) produced in various prestigious material suitable to be applied by means of interlocking and/or sliding guide.
2. The door according to claim 1, **characterized in that** said wing (4) is semi-circular in shape.
3. The door according to claim 1 or 2, **characterized in that** said frame also comprises at least one upper cross member (2) to which said glass or crystal glass (6) is fastened.
4. The door according to claim 3, **characterized in that** safety locks (7) are positioned on said upper cross member (3).
5. The door according to any one of the preceding claims from 1 to 4, **characterized by** comprising two of said wings (4) mutually adjacent and coupled.









EUROPEAN SEARCH REPORT

Application Number
EP 09 17 5238

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	JP 05 005775 U (UNKNOWN) 26 January 1993 (1993-01-26) * figures 1,2 *	1-6	INV. B66B13/04 E06B3/70
A	DE 40 31 990 A1 (DUDEK GUENTER [DE] SCHULTE DUSCHKABINEN [DE]) 16 April 1992 (1992-04-16) * column 2, line 16 - column 2, line 24; figures 1-2 *	1-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			B66B E06B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 11 February 2010	Examiner Janssens, Gerd
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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EPO FORM 1503 03.82 (P04C01)

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

EP 09 17 5238

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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11-02-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 5005775	U	26-01-1993	NONE	

DE 4031990	A1	16-04-1992	NONE	
