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(54) **JOINERY ASSEMBLY WITH AN ADJUSTABLE EDGE**

(57) Adjustable edge carpentry assembly for mounting a leaf (B) in an opening in a wall (A) of a building, the edge of which corresponds to an edge of the leaf (B) itself, comprising:

- a first piece (1) comprising:
- a first transverse wall (2) intended to be fixed internally to a first side of the leaf (B),
- a second longitudinal wall (3) intended to contact the edge of the leaf (B), and
- a third longitudinal wall (4) parallel to said second longitudinal wall (3); and

- a second piece (5) comprising:
- a first transverse wall (6) intended to be fixed internally to a second side of the leaf (B), and
- a second longitudinal wall (7) designed to contact the third longitudinal wall (4) of the first piece (1) in the assembled position, where the relative position between the first transverse wall (2) of the first piece (1) and the first transverse wall (6) of the second piece (5) corresponds to the edge of the leaf (B).

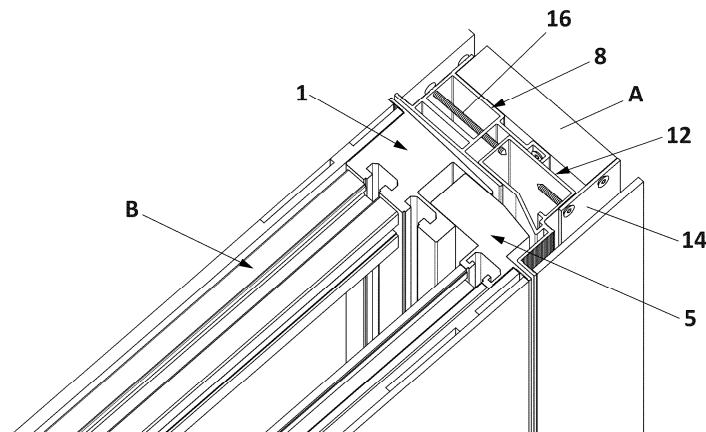


FIG. 3

EP 4 741 617 A1

Description

TECHNICAL FIELD OF THE INVENTION

[0001] The present invention relates to an adjustable edge carpentry assembly, which has applications in the construction industry, and more specifically in the field of interior architecture, particularly in the field of fittings required in carpentry for doors and windows intended to be concealed or flush with the wall, allowing, through the use of the same parts, adaptation to different wall and door or window thicknesses, with great speed and ease of assembly on site, with the consequent reduction in stock and assembly times that this entails.

BACKGROUND OF THE INVENTION

[0002] Currently, in the field of construction and interior architecture, in certain cases, the arrangement of doors and windows that are flush with the wall or partition in which they are located, without any frame or any other element other than the line separating the surface of the door or window and the wall itself being visible, is well known and appreciated in high-end properties. Preferably, this flushness is achieved on both sides of the door or window, i.e. on both the inside and outside. In the case of interior doors in the building, this means that the door is completely hidden and flush with the walls on both sides.

[0003] This is particularly applicable in cases where the door incorporates a decorative panel, which can be made of any material, in aesthetic harmony with the cladding, whether surface finishes, tiling or cladding panels, of the walls surrounding the door itself. In this way, when the door is closed, it is practically invisible, giving the entire surface of the wall a continuity that is not interrupted by the presence of the door.

[0004] Current technical solutions that allow the above solution to be achieved must take into account that walls, whether interior partitions or exterior walls, have different thicknesses in the design stage.

[0005] These solutions involve the custom manufacture of door and window frames so that the edge of the door or window corresponds to the edge of the wall with which it must be flush. This often involves the factory assembly of the door or window frame and its subsequent installation on site. Obviously, the need to manufacture the frame to measure entails high manufacturing and assembly costs and times, with the need for measurements which, in the event of an error, require the frame to be returned to the factory for a new one to be assembled with the correct measurements.

[0006] In addition, it must be taken into account that, during on-site installation, these thicknesses do not correspond exactly to the design values and depend on the installation itself. Finally, the finishes of each wall, which may include panels and tiling, are another factor that influences the final edge of each wall.

[0007] All this means that the factory assembly of a

frame with the project dimensions of the wall or partition means that when it is assembled on site, the desired concealment effect is not achieved and the thicknesses of the leaf, whether it is a door or a window, will not correspond to the edge of the wall, with the time and economic cost that this entails, as it means reassembling the frame with the actual dimensions.

DESCRIPTION OF THE INVENTION

[0008] The present invention relates to an adjustable edge carpentry assembly, which, with only two universal pieces, allows for quick installation on site that can be adapted to any edge of the leaf, the leaf being understood to be a door or window, so that once installed, the leaf is completely flush with the wall or partition wall, regardless of the edge of said wall once installed, as the leaf frame adapts to the edge of the wall itself during assembly.

[0009] As mentioned above, the adjustable edge carpentry assembly proposed by the invention allows a leaf (B) to be mounted in an opening in a wall (A) of a building, so that the edge of the wall (A) corresponds to an edge of the leaf (B) itself, so that, once installed, the leaf (B) is flush, preferably on both sides, although it could be on only one side, with the wall (A).

[0010] According to the invention, the assembly comprises a first piece which, according to a cross-section, comprises:

- a first transverse wall, intended to be fixed internally to a first side of the leaf (B),
- at least one second longitudinal wall intended to contact the edge of the leaf (B), and
- a third longitudinal wall parallel to said at least one second longitudinal wall.

[0011] The assembly also comprises a second piece which, according to a cross-section, comprises:

- a first transverse wall intended to be fixed internally to a second side, opposite the first side, of the leaf (B), and
- a second longitudinal wall designed to contact the third longitudinal wall of the first piece in the assembled position, such that the relative position between the first transverse wall of the first piece and the first transverse wall of the second piece corresponds to the edge of the leaf (B).

[0012] These first and second pieces form what is known as a leaf frame, which in the case of a door is the door frame, such that the clearance between these first and second pieces defines the edge of the leaf, which is adjusted by the operator on site to correspond to that of the wall in which the leaf is to be flush, all of this prior to the installation of the fixings, which may be, for example, screws.

[0013] It should also be noted that the invention con-

templates that the leaf frame is formed solely by the sides, without the need to place said frame on the upper and lower horizontal sides of the door. Obviously, it is also contemplated that the frame be complete, for which purpose the pieces on each side are mitred together.

[0014] Although the defined assembly can be mounted directly into the wall opening (A), the possibility is contemplated that the carpentry assembly of the invention may comprise a third piece which, according to a cross-section, comprises:

- a first transverse wall intended to be fixed to a first face of the wall (A) by a free end of said first transverse wall,
- a second longitudinal wall intended to contact the edge of the wall opening (A), and
- at least one third longitudinal wall parallel to the second longitudinal wall.

[0015] In this case, the assembly also comprises a fourth piece which, according to a cross-section, comprises:

- a first transverse wall which is fixed by means of a side plate laterally to a second face, opposite the first face, of the wall (A), and
- at least one second longitudinal wall intended to contact the third longitudinal wall of the third piece in the assembled position, so that the relative position between the first transverse wall of the third piece and the first transverse wall of the fourth piece corresponds to the edge of the wall (A).

[0016] These third and fourth pieces form the wall frame, allowing it to be adapted to the edge of the wall already constructed and on the basis of which the relative position of the first and second pieces of the leaf frame is fixed. Obviously, the wall frame may consist solely of the vertical sides or also of the upper crossbar that connects to the mitred vertical side sections.

[0017] In the case of the wall frame, as in the case of the door frame, it is envisaged that the assembly comprises means for fixing said relative position between said third, and fourth pieces, as well as between said first and second pieces. Said fixing may be carried out by any known means, such as screws, rivets, weld points, adhesives, etc.

DESCRIPTION OF THE DRAWINGS

[0018] To supplement the description being made and in order to aid in a better understanding of the characteristics of the invention, in accordance with a preferred example of its practical implementation, a set of drawings is included as an integral part of said description, in which the following is represented in an illustrative and non-limiting manner:

Figure 1 shows a cross-section of an embodiment of the first and second pieces that form the leaf frame of the invention as a whole.

Figure 2 shows a cross-section of an embodiment of the third and fourth parts that form the wall frame of the invention.

Figure 3 shows a schematic perspective view in which both the leaf frame and the wall frame of the embodiments shown in Figures 1 and 2 can be seen in cross-section.

Figure 4 shows a cross-section of the assembly shown in Figure 3.

PREFERRED EMBODIMENT OF THE INVENTION

[0019] In view of the figures described, it can be seen how, in one of the possible embodiments of the invention, the carpentry assembly proposed by the invention allows a leaf (B) to be mounted in an opening in a wall (A) of a building, so that the edge of the wall (A) corresponds to an edge of the leaf (B) itself, so that, once installed, the leaf (B) is flush, preferably on both sides, although it could be on only one side, with the wall (A), as can be seen in Figures 3 and 4.

[0020] As shown in Figure 1, the assembly comprises a first piece (1) which, according to a cross-section, comprises:

- a first transverse wall (2), intended to be fixed internally to a first side of the leaf (B),
- at least one second longitudinal wall (3) intended to contact the edge of the leaf (B), and
- a third longitudinal wall (4) parallel to said at least one second longitudinal wall (3).

[0021] The assembly also comprises a second part (5) which, according to a cross-section, comprises:

- a first transverse wall (6) intended to be fixed internally to a second side, opposite the first side, of the leaf (B), and
- a second longitudinal wall (7) designed to contact the third longitudinal wall (4) of the first piece (1) in the assembled position, such that the relative position between the first transverse wall (2) of the first piece (1) and the first transverse wall (6) of the second piece (5) corresponds to the edge of the leaf (B).

[0022] These first and second pieces (1, 5) form what is known as a leaf frame.

[0023] As can be seen in Figure 2, according to one embodiment of the invention, the carpentry assembly comprises a third piece (8) which, according to a cross-section, comprises:

- a first transverse wall (9) intended to be fixed to a first face of the wall (A) by a free end of said first transverse wall (9),
- a second longitudinal wall (10) intended to contact the edge of the wall opening (A), and
- at least one third longitudinal wall (11) parallel to the second longitudinal wall (10).

[0024] In this case, the assembly also comprises a fourth part (12) which, according to a cross-section, comprises:

- a first transverse wall (13) which is fixed by means of a plate (14) laterally to a second face, opposite the first face, of the wall (A), and
- at least one second longitudinal wall (15) intended to contact the third longitudinal wall (11) of the third piece (8) in the assembled position, such that the relative position between the first transverse wall (9) of the third piece (8) and the first transverse wall (13) of the fourth piece (12) corresponds to the edge of the wall (A).

[0025] The third and fourth parts (8, 12) form the wall frame.

[0026] The assembly comprises means (16) for fixing the relative position between said third and fourth parts (8, 12), as well as between said first and second parts (1, 5).

[0027] In view of this description and set of figures, those skilled in the art will understand that the embodiments of the invention described may be combined in multiple ways within the scope of the invention. The invention has been described according to some preferred embodiments thereof, but it will be apparent to those skilled in the art that multiple variations may be introduced into said preferred embodiments without exceeding the scope of the claimed invention.

Claims

1. Adjustable edge carpentry assembly for mounting a leaf (B) in an opening in a wall (A) of a building, the edge of which corresponds to an edge of the leaf (B) itself, so that, once installed, the leaf (B) is flush with the wall (A) on at least one side, **characterised in that** it comprises:

- a first piece (1) which, according to a cross-section, comprises:

- a first transverse wall (2) intended to be fixed internally to a first side of the leaf (B),
- at least one second longitudinal wall (3) intended to contact the edge of the leaf (B), and
- a third longitudinal wall (4) parallel to said

at least one second longitudinal wall (3); and

- a second piece (5) which, according to a cross-section, comprises:

- a first transverse wall (6) intended to be fixed internally to a second side, opposite the first side, of the leaf (B), and
- a second longitudinal wall (7) intended to contact the third longitudinal wall (4) of the first piece (1) in the assembled position, such that the relative position between the first transverse wall (2) of the first piece (1) and the first transverse wall (6) of the second piece (5) corresponds to the edge of the leaf (B).

2. Carpentry assembly according to claim 1, comprising:

- a third piece (8) which, according to a cross-section, comprises:

- a first transverse wall (9) intended to be fixed to a first face of the wall (A) by a free end of said first transverse wall (9),
- a second longitudinal wall (10) intended to contact the edge of the wall opening (A), and
- at least one third longitudinal wall (11) parallel to the second longitudinal wall (10); and

- a fourth piece (12) which, according to a cross-section, comprises:

- a first transverse wall (13) which is fixed by means of a plate (14) laterally to a second face, opposite the first face, of the wall (A), and
- at least a second longitudinal wall (15) intended to contact the third longitudinal wall (11) of the third part (8) in the assembled position, so that the relative position between the first transverse wall (9) of the third part (8) and the first transverse wall (13) of the fourth part (12) corresponds to the edge of the wall (A); and

- means (16) for fixing said relative position between said third and fourth parts (8, 12).

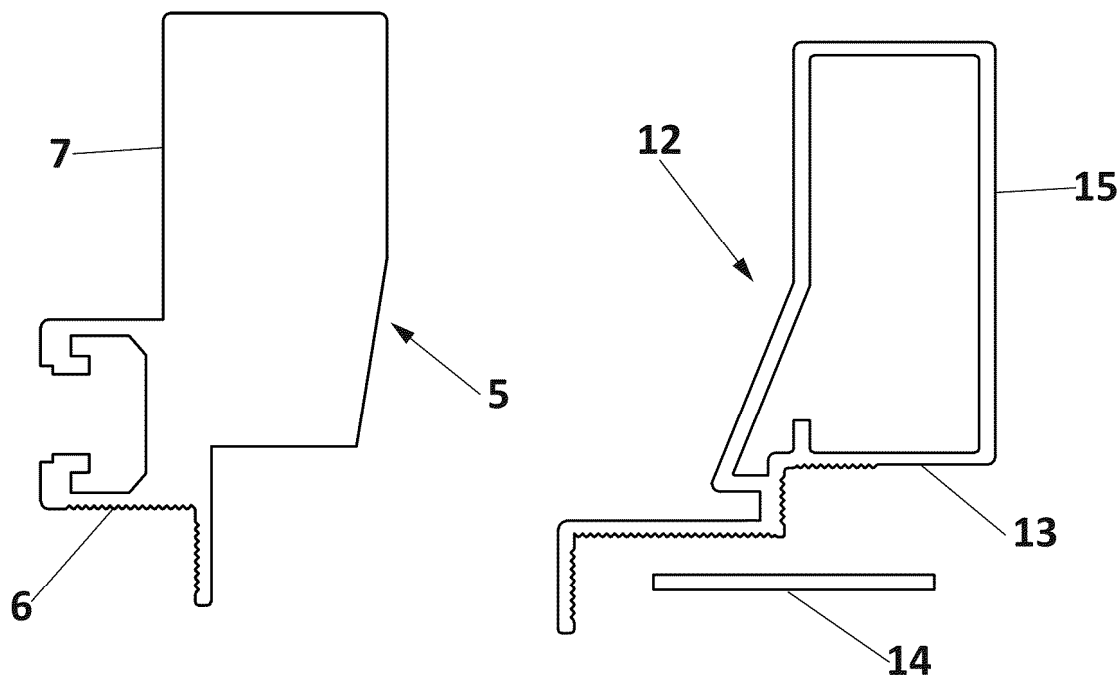
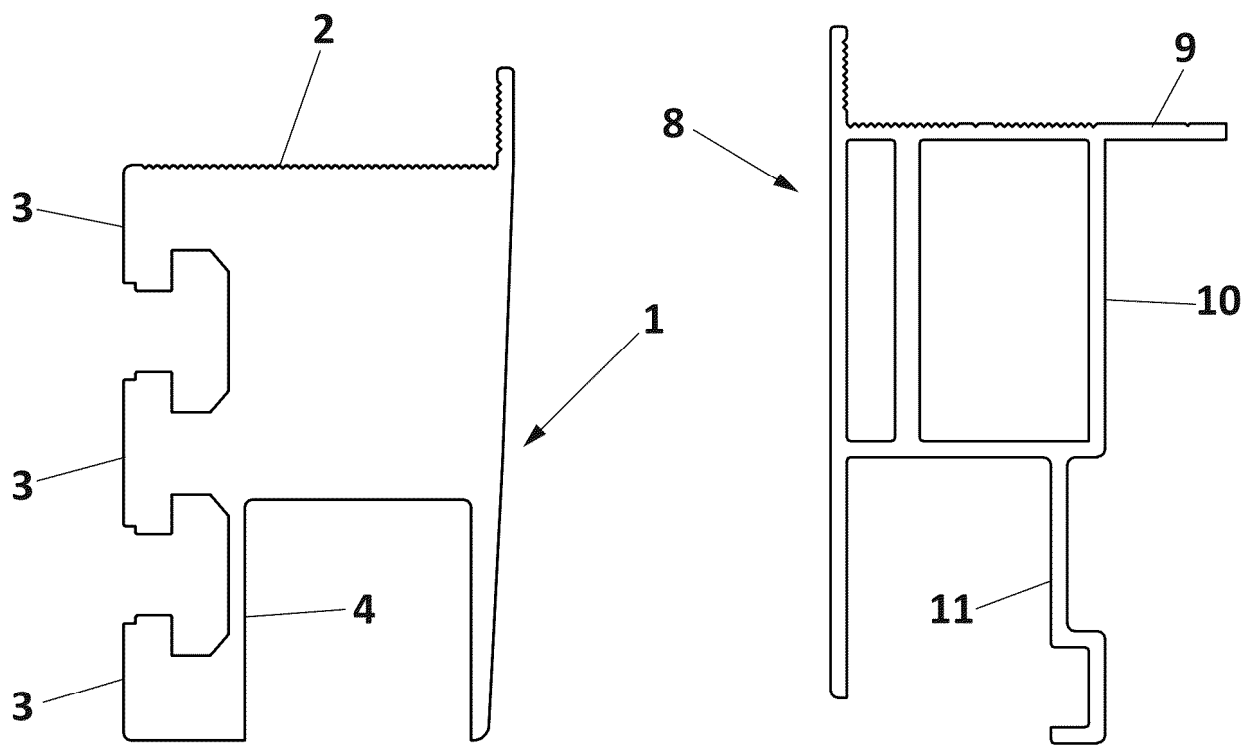


FIG. 1

FIG. 2

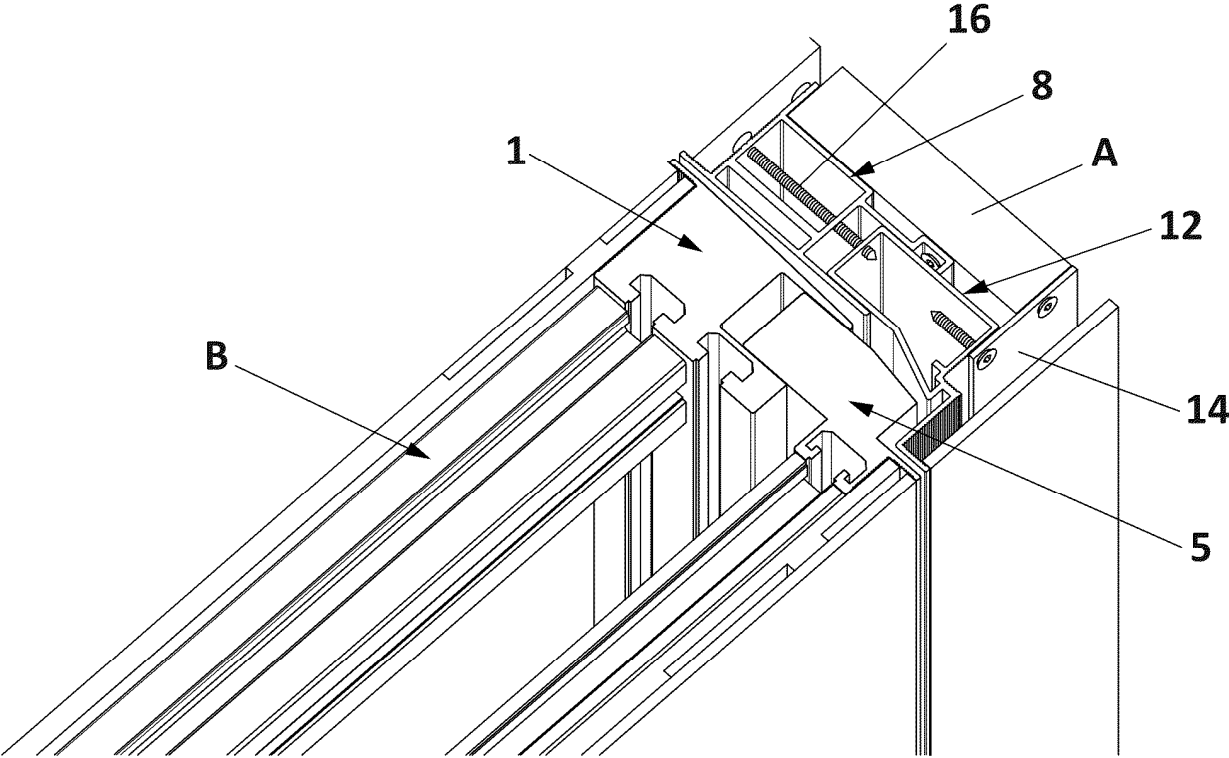


FIG. 3

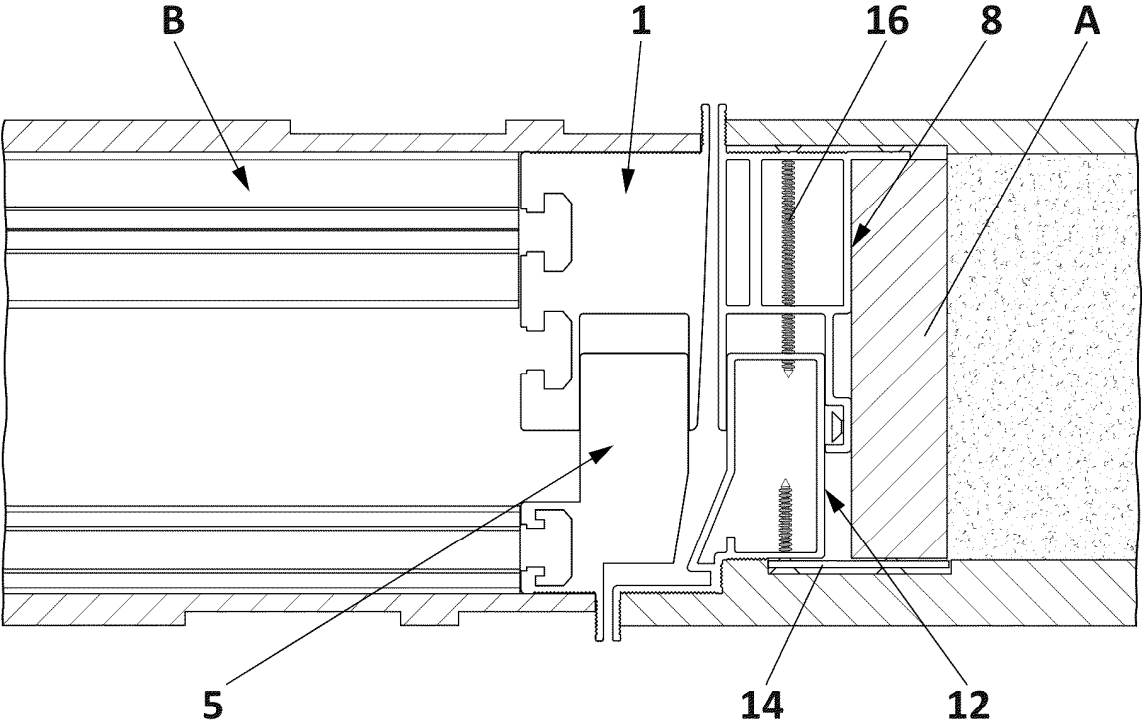


FIG. 4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2024/070427

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, INVENES

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5345722 A (MCKANN H SMITH) 13/09/1994, column 1, line 14 - column 6, line 45; figures 1 - 4.	1,2
X	US 5220748 A (CHADBOURNE WINGATE) 22/06/1993, description; figures.	1,2
X	FR 1591938 A 04/05/1970, description; figures.	1,2
A	KR 20120002203U U 26/03/2012, description; figures.	1,2
A	ALBED. Catálogo ALBED. 01/03/2019, pages 16 - 20; [on line] [retrieved on 05/05/2024]. Retrieved of <URL: https://shop.rizzottidesign.com/es/productos/puerta-a-ras-of-pared-para-cart-n-yeso-integra-puerta_194686 >	1,2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure use, exhibition, or other means.

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

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"&"

document member of the same patent family

Date of the actual completion of the international search
01/10/2024

Date of mailing of the international search report
(02/10/2024)

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES2024/070427

Information on patent family members

Information on patent family members			
Patent document cited in the search report	Publication date	Patent family member(s)	Publication date
US5345722 A	13.09.1994	US5187898 A	23.02.1993
US5220748 A	22.06.1993	NONE	
FR1591938 A	04.05.1970	NONE	
KR20120002203U U	26.03.2012	KR200460017Y Y1	26.04.2012

INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES2024/070427

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CLASSIFICATION OF SUBJECT MATTER

E06B1/20 (2006.01)
E06B3/04 (2006.01)
E06B3/26 (2006.01)