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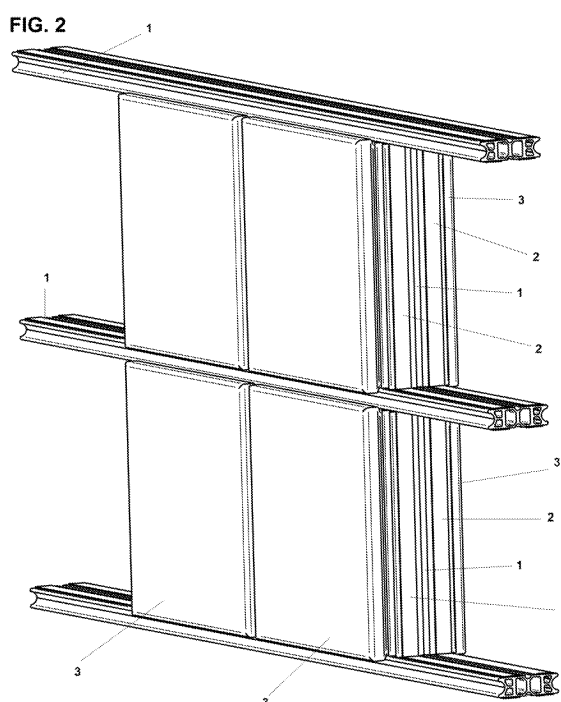
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(54) **SELF-ADHESIVE PROFILE FOR THE ASSEMBLY OF CONSTRUCTION BLOCKS PRODUCED IN GLASS**

(57) The invention relates to a rigid self-adhesive profile for the assembly of construction blocks produced in glass, in the form of a horizontal "H", together with one or more lines or strips of an adhesive body, disposed in

parallel, on both flat longitudinal faces of said profile, and having concave sides. The inside of said profile contains two central cavities and two cavities at the ends.



Description

Purpose of the invention

[0001] The purpose of the present invention is to present a self-adhesive profile for the assembly of building blocks manufactured in glass, which has a special application in the construction sector.

[0002] It is therefore a construction element. It can be made in plastic, metal or other rigid materials.

Background of the invention

[0003] At present the application is known of architectural solutions which envisage raising partitions, walls, or panels based on stacking glass blocks. This allows compartments of commercial or industrial dwellings or premises with separating elements which allow the passage of natural or artificial light.

[0004] Currently, these building blocks manufactured in glass are installed in a manner aligned according to their size and height, by depositing cement between the various blocks, in addition to some spacers between these blocks.

[0005] Another alternative assembly technique used consists of the use of profiles on which silicone is deposited, which are placed between the different rows of blocks, and subsequently the outer joints are finished with silicone products or joint mortar.

[0006] Thus, the use of malleable silicones is highlighted and widespread, whether in the US patent document US5485702 SHOLTON BERNARD (1996), or marketed by the GLASSBLOCK TECHNOLOGY (2016) or LEROY MERLIN (2016) companies, in the interstices of the blocks, but with operational and functional nature, they are malleable fluids which require drying times to settle and consolidate, and are less resistant, besides requiring a subsequent cleaning process of leftover remains in view of the proposed solution. In addition, the proposed solution consists of a double nature: one, functional as a sealant; and another, aesthetic as a pattern or flashing with any type of colour or combinations of colours at the user's choice.

[0007] Technically, in view of the use of malleable silicones, waiting times for heights with considerable stacking are not required due to the solidity of the fixation, facilitating in this way their direct and complete installation at the same time by the operators. In addition to not requiring a subsequent cleaning process in silicone surpluses of the joints, the proposed invention guarantees a uniform, regular and continuous adhesion surface - and, consequently, a constant resistance - against the excesses or defects which manual injection involves.

[0008] In the current state of the art, there is no self-adhesive profile for the assembly of building blocks manufactured in glass, with the technical characteristics proposed in the present invention.

Technical problem

[0009] The materials and the assembly techniques of these partitions, walls or panels of glass blocks, present the following problems:

The use of cement or glue cement at the intersections of the stacked glass blocks, in addition to being expensive, generates certain problems of stains and dirt, to which must be added the cost and the addition of plastic spacers or similar for their fastening.

[0010] On the other hand, the use of profiles by themselves or together with spacers necessarily requires the application of silicone for an optimum sealing of the stacked blocks.

Technical solution

[0011] In order to resolve the limitations described above, the present invention is to configure a profile shaped as an "H" lying with two lines or strips of an adhesive body, arranged in parallel, on both longitudinal and flat sides of this profile.

[0012] On this self-adhesive profile, each of the glass blocks is progressively settled, being perfectly adhered and aligned.

Advantageous effects

[0013] To this end, a more advantageous construction profile is achieved with the present invention compared to those already disclosed and known, by reason of its functional characteristics, in order to simplify its forms, its speed of assembly, in addition to the suppression of tasks of application of adhesive or silicone products.

Description of the Figures

[0014] For a better understanding of the aforementioned general characteristics, a drawing is attached to the present invention which sets out as follows:

Figure 1: General view on its plan, elevation, section and front of a profile (1) and a self-adhesive body (2).

Figure 2: General view of a combined set of profiles (1) with their self-adhesive bodies (2) arranged vertically and horizontally containing four glass blocks (3).

Figure 3: Front view of a combined set of profiles (1) arranged vertically and horizontally containing four glass blocks (3).

Mode of carrying out the invention

[0015] With reference to the invention described, a combination of a profile shaped as a lying down "H" is carried out, together with one or more lines or strips of

an adhesive body, arranged in parallel, on both longitudinal and planar faces of this profile, and with their sides concave.

[0016] The interior of this profile contains two central cavities and two cavities at its ends.

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[0017] Building materials in the form of blocks can be of any nature, such as glass, wood conglomerates or translucent or not translucent plastics, among others.

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Claims

1. Self-adhesive profile for the assembly of building blocks made of glass, **characterised by** a combination of an "H" shaped profile lying down (1), together with one or more lines or strips of an adhesive body (2), arranged in parallel, on both longitudinal and flat sides of this profile, and with its sides concave. The interior of this profile contains two central cavities and two cavities at its ends.

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FIG.1.1

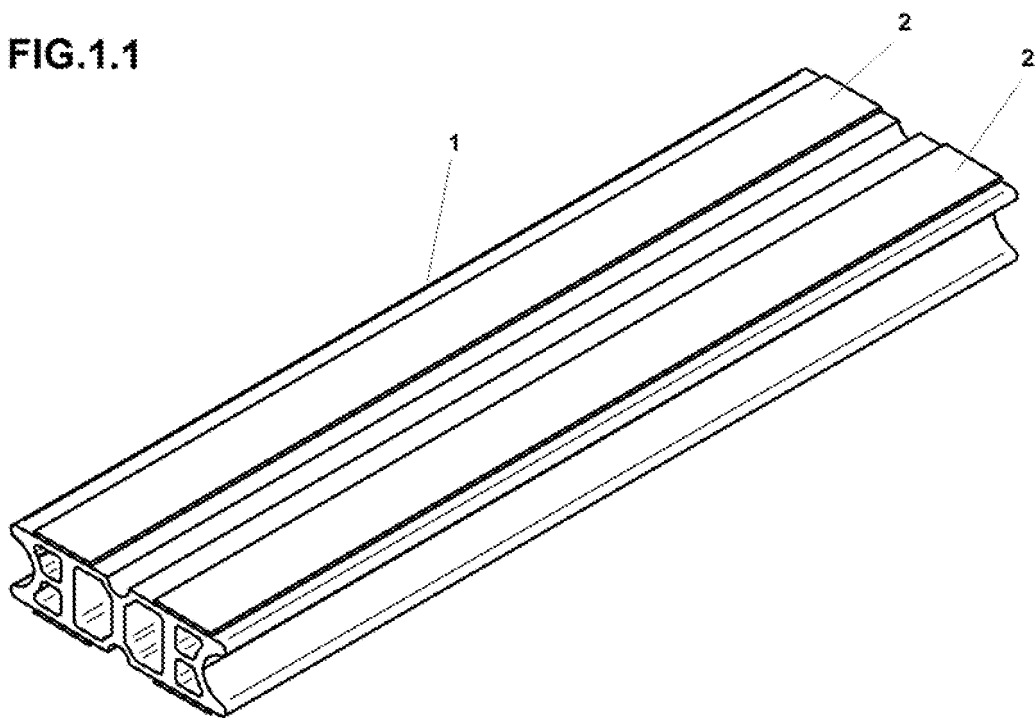


FIG. 1.2

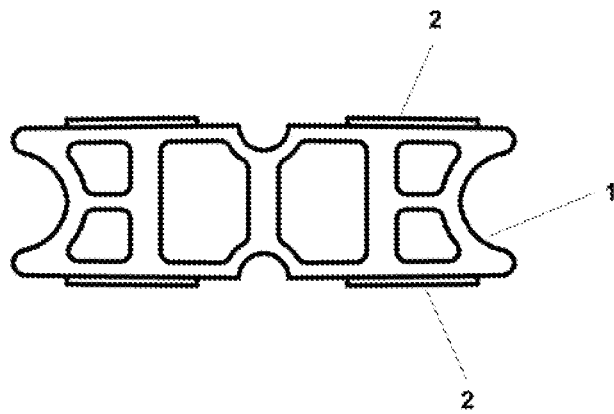


FIG. 1.3

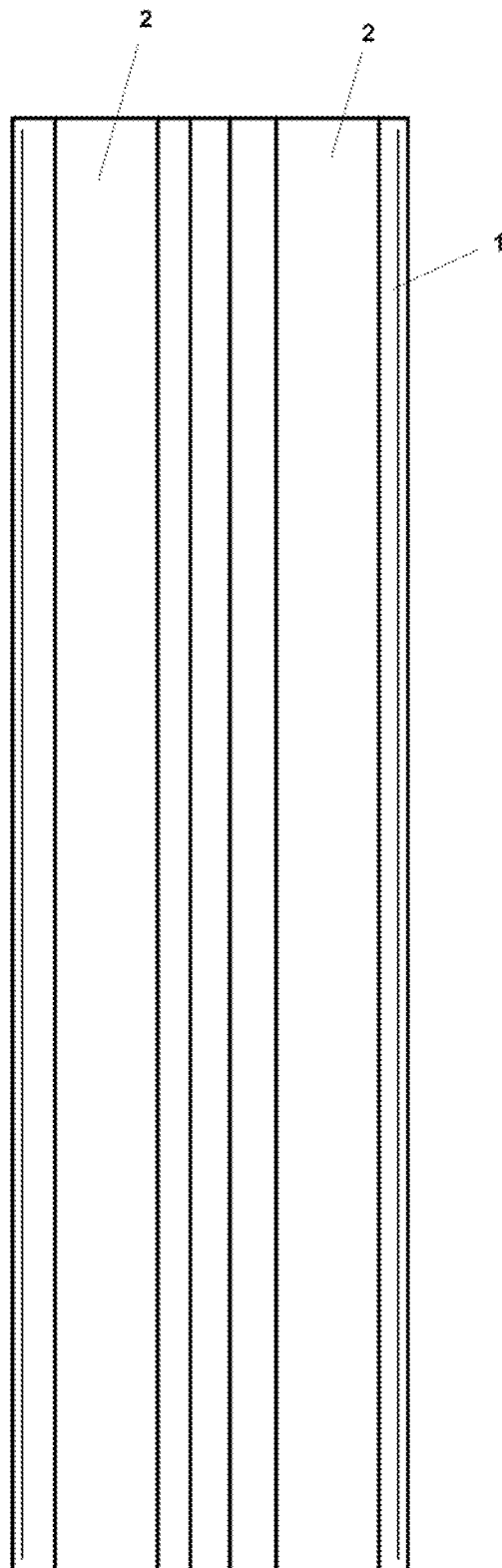


FIG. 1.4

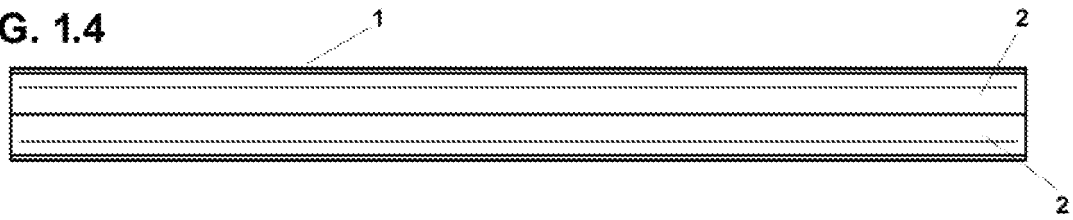


FIG. 2

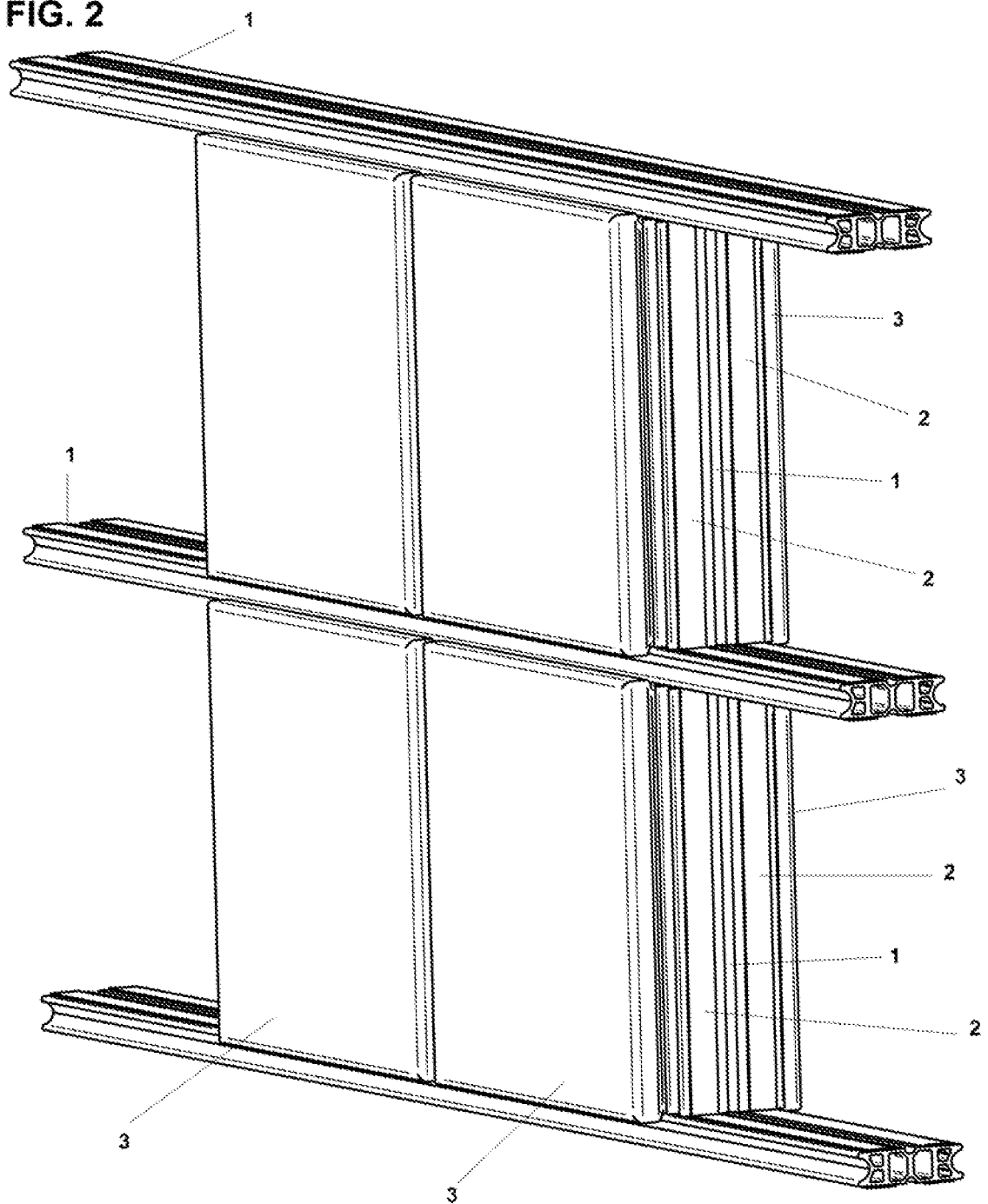
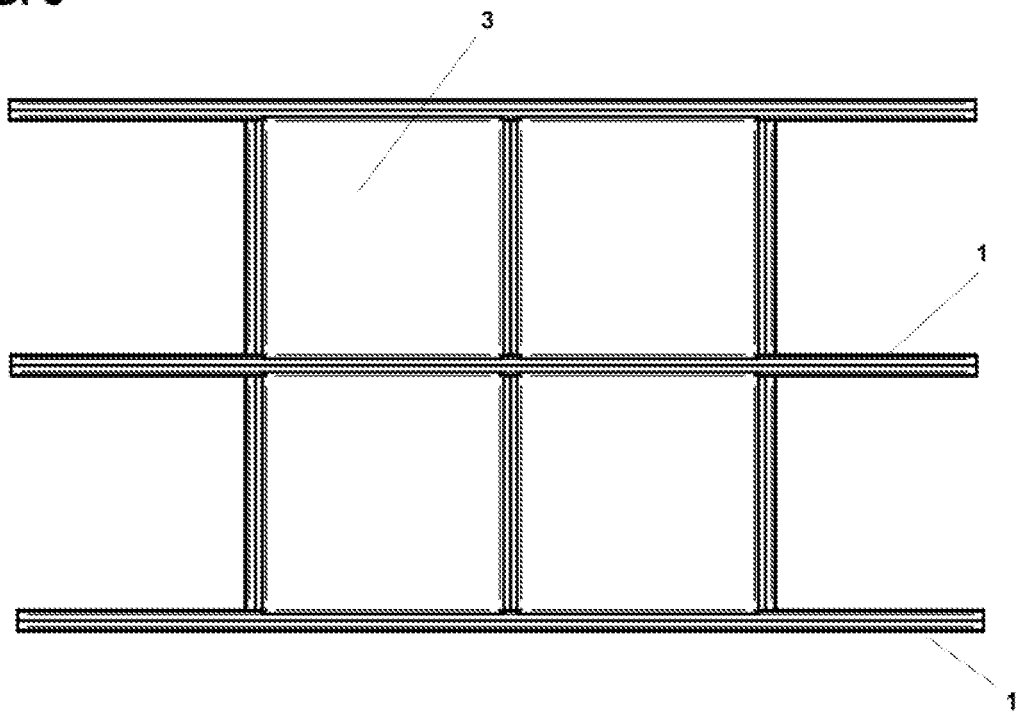


FIG. 3



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

E04C1/42 (2006.01)

E04B2/02 (2006.01)

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)

E04C, E04B

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	GLASSBLOCK TECHNOLOGY. 11/06/2016 [on line] [retrieved the 13/09/2017]. Retrieved from Internet <URL: http://www.glassblocks.co.uk/si_Easifix_accessories_spacer.htm >. the whole document.	1
X	US 5485702 A (SHOLTON BERNARD C) 23/01/1996, column 4, line 20 - column 7, line 39; figures 3 - 6B.	1
X	LEROY MERLIN. 23/10/2016 [on line] [retrieved the 13/09/2017]. Retrieved from Internet <URL: http://www.leroymerlin.es/productos/construccion/bloques_de_vidrio/instalar-bloques-of-vidrio.html > the whole document.	1
A	US 5845443 A (WIRKUS RANDOLF ANDREW ET AL.) 08/12/1998, column 2, line 49 - column 4, line 3; figures.	1

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance.	
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"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search
26/02/2018Date of mailing of the international search report
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Name and mailing address of the ISA/

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C (continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9505510 A1 (WIRKUS RANDOLF ANDREW ET AL.) 23/02/1995, page 7, line 2 - page 14, line 5; figures.	1

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES2017/070855

Information on patent family members

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US5845443 A	08.12.1998	US5640819 A CA2156942 A1 AU3018895 A AU699628B B2	24.06.1997 26.02.1996 07.03.1996 10.12.1998
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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US 5485702 A [0006]