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(54) **PROFILE ASSEMBLY FOR A COMBINED AWNING AND GRATING DEVICE**

(57) The invention concerns a profile assembly (1) for a combined awning and grating device, comprising:
- a window profile assembly (2) for holding glazing (39), wherein said window profile assembly (2) comprises an openable window part (3) and a fixedly arranged, adjacent window part (4);
- a grating profile (5) coupled to the window profile assembly (2) for holding slats for shielding the openable window part (3); and
- an awning profile assembly (6) for holding a lateral side of an awning for shielding the fixed window part (4);

wherein the grating profile (5) comprises a laterally protruding flange (9) and
wherein the awning profile assembly (6) comprises a flange-receiving cavity (10) for receiving said flange (9) therein.

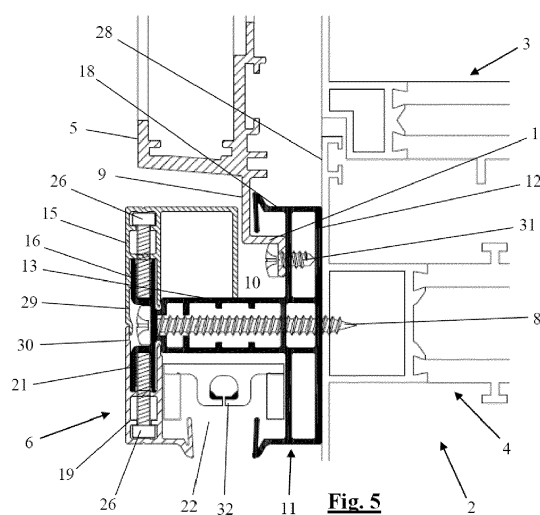


Fig. 5

Description

[0001] The invention concerns a profile assembly comprising:

- a window profile assembly for holding glazing, wherein said window profile assembly comprises an openable window part and a fixedly arranged, adjacent window part which is arranged adjacent to the openable window part so that the two window parts extend substantially in a same plane;
- a grating profile coupled to the window profile assembly for holding slats for shielding the openable window part; and
- an awning profile assembly for holding a lateral side of an awning for shielding the fixedly arranged window part.

[0002] The window profile assembly of such a profile assembly is intended to hold glazing, but is also suitable and often used for holding e.g. panels or gratings etc. When reference is made to glazing, this also applies mutatis mutandis to some other suitable wall elements.

[0003] The grating profile with slats held therein forms a ventilation grating which is arranged in front of the openable window part in order to shield this. Such ventilation gratings must typically comply with strict requirements for resistance to break-in and also e.g. fall prevention.

[0004] This type of ventilation grating is often used for night-time cooling. The openable window part is left open at night and large quantities of air can flow via the ventilation grating through one or more rooms to be ventilated in a building. In this way, heat which has built up in the building during the day can be dissipated.

BE 1 012 000 A3, NL 2 002 316 C, and BE 1 019 505 A5 describe and depict such ventilation gratings for integration in a wall. This invention however refers to variants for mounting in front of the wall, i.e. in front of an openable window part in this wall. NL 2 008 258 C describes and depicts an example of such a ventilation grating.

[0005] Increasingly often, variants of such ventilation gratings are arranged to shield an openable window part, wherein an awning device, such as for example an awning which can be rolled onto and unrolled from a canvas roller, is provided in order to shield a fixedly arranged, adjacent window part. The location of such a ventilation grating next to such an awning device however imposes several problems.

Some known solutions for profile assemblies (1) for such a combined awning and grating device, which also illustrate such problems, are depicted in figures 1 and 2.

The grating profiles (5) depicted here, in contrast to the grating profile of the ventilation grating from NL 2 008258 C, have no flange so that the grating profile (5) can be connected as tightly and aesthetically as possible against an adjacent awning profile assembly (6). The grating profile (5) is arranged in front of an openable window part (3), while an awning device comprising the adjacent awn-

ing profile assembly (6) is arranged in front of an adjacent, fixedly arranged window part (4). The awning device in the embodiment depicted comprises an awning which can be rolled onto and unrolled from an awning roller, of which thicker lateral edges are guided during rolling and unrolling in corresponding awning guides (32) arranged in the awning profile assembly (6).

Both the grating profile (5) and the adjacent awning profile assembly (6) are screwed against the profile (28) of the window profile assembly (2).

In order to make the grating profiles (5) align as aesthetically as possible with the adjacent awning profile assembly (6), a suitable intermediate profile (7) is provided between the grating profile (5) and the window profile assembly (2). This is time-consuming, customised work. As these figures show, in addition it is not easy to screw an awning profile assembly (5) and an adjacent intermediate profile (7) fixedly to a same profile (28) of the window profile assembly (2). The screws (8) here cannot always be arranged so as to sit in a cavity in a profile of the window profile assembly (2), as is the case in figure 1. Often, these screws (8) are merely placed in a profile (28) of the window profile assembly (2) such that, after installation, they remain visible and protrude as an obstacle during opening of the openable window part (3), as is the case in figure 2. This causes problems.

[0006] The object of the invention is to provide such a profile assembly with which the above-mentioned problems can be remedied.

[0007] The object of the invention is achieved by providing a profile assembly comprising:

- a window profile assembly for holding glazing, wherein said window profile assembly comprises an openable window part and a fixedly arranged, adjacent window part which is arranged adjacent to the openable window part so that the two window parts extend substantially in a same plane;
- a grating profile coupled to the window profile assembly for holding slats for shielding the openable window part; and
- an awning profile assembly for holding a lateral side of an awning for shielding the fixedly arranged window part;

wherein the grating profile comprises a laterally protruding flange and wherein the awning profile assembly comprises a flange-receiving cavity for receiving said flange therein.

[0008] By providing the grating profile with a laterally protruding flange and by receiving said flange in a flange-receiving cavity of the awning profile assembly, the grating profile can be connected more precisely and aesthetically to the awning profile assembly. Only the awning profile assembly need be coupled directly to the window profile assembly. Furthermore, it is no longer necessary to also couple the grating profile to the window profile assembly using intermediate profiles. The grating profile

is now coupled to the window profile assembly via the awning profile assembly. It is therefore easier to attach the awning profile assembly by means of screws to a profile of the window profile assembly, without the screws being visible after installation and protruding as an obstacle during opening of the openable window part.

[0009] More specifically, for this the awning profile assembly may comprise:

- a base profile which is provided with a coupling wall via which the awning profile assembly is coupled to the window profile assembly, wherein the flange can be arranged against this coupling wall; and
- a closing profile piece which is attachable to the base profile for forming the flange-receiving cavity.

[0010] In a first variant, the base profile may for this be provided for example with a rear wall which protrudes with respect to the coupling wall. The closing profile piece may here be able to be attached directly to this rear wall, at the end of this rear wall which is arranged remotely from the coupling wall. The flange-receiving cavity may thus be formed between the closing profile piece, the rear wall and the coupling wall.

[0011] In a second variant, the base profile may also comprise, as well as such a rear wall, a grating side wall which protrudes with respect to the rear wall at the end of the rear wall remote from the coupling wall. The closing profile piece may be able to be attached in the cavity which is delimited by the grating side wall, the rear wall and the coupling wall, and here adjoin said grating side wall so that the flange-receiving cavity is again formed between the closing profile piece, the rear wall and the coupling wall.

[0012] In all these variants, the grating profile may easily be mounted by arranging its flange against the coupling wall and then attaching the closing profile piece to the base profile.

[0013] The closing profile piece is here preferably provided for holding the flange between the closing profile piece and the coupling wall.

[0014] The profile assembly furthermore preferably comprises screws for fastening the flange against the coupling wall. The closing profile piece is then preferably provided for shielding these screws. The screws are shielded after fixing of the closing profile piece to the base profile, so they are not easily be accessible for removing the grating profile. This provides increased protection against break-in and also contributes to fall prevention.

[0015] In order to provide the grating profile with a laterally protruding flange, this may for example be produced as the grating profile from NL 2 008 258 C.

More specifically, the flange is preferably formed stepped and for this provided with a stepped part, and the coupling wall is preferably provided with a shoulder which protrudes with respect to the coupling wall, such that the stepped part of the flange engages behind this shoulder

when the flange is arranged against the coupling wall.

[0016] By allowing the stepped part of the flange to engage behind a shoulder, it can easily be ensured that a certain distance is maintained between the grating profile and the window profile assembly, so that the grating profile with slats arranged therein can be aligned more easily with an awning device which contains the awning profile assembly.

Also, this stepped part offers the advantage that screws which attach the flange to the coupling wall can be countersunk.

A further advantage is that the stepped part is clamped behind the shoulder, and thus provides further security for protection against break-in.

In addition, the stepped part offers greater water-tightness since, thanks to the stepped part, no rain can penetrate behind the grating profile via the lateral sides of the grating profile.

[0017] When the profile assembly is configured according to the first variant above, the awning profile assembly preferably has a fixing collar which protrudes relative to the rear wall, at the end of the rear wall remote from the coupling wall, for fastening the closing profile piece to the rear wall.

More specifically, this fixing collar may for this be designed double-walled in order to form a screw channel for arranging therein screws for fastening the closing profile piece to the rear wall. Alternatively or additionally, the fixing collar may for example be provided for attaching the closing profile thereto by means of a clip fastening and/or a hook connection.

[0018] In a particularly preferred variant of a profile assembly according to this invention, the awning profile assembly comprises an awning side wall which is provided at the end of the rear wall remote from the coupling wall, so as to protrude relative to the rear wall, at the side of the rear wall opposite the side where the closing profile piece is attachable, in order to form, together with the rear wall and the coupling wall, an awning-receiving cavity for holding the lateral side of the awning.

[0019] More specifically, in a first said variant in which it is provided with a fixing collar, the awning profile assembly may comprise a second fixing collar which protrudes with respect to the rear wall, at the end of the rear wall remote from the coupling wall, in order to fix the awning side wall to the rear wall.

Even more specifically, for this said second fixing collar may be designed double-walled in order to form a screw channel for arranging therein screws for fastening the awning side wall to the rear wall. Alternatively or additionally, the second fixing collar may for example be provided for attaching the awning side wall thereto by means of a clip fastening and/or a hook connection.

[0020] In a preferred embodiment, the rear wall of the profile assembly according to this invention is designed double-walled and provided for arranging therein a fixing screw for coupling the coupling wall to a profile of the window profile assembly.

[0021] More specifically, the closing profile piece may then be provided with a cover flange for covering the fixing screw, in order to conceal this fixing screw from view. Additionally or alternatively, in variants with an awning side wall, said awning side wall may be provided with a cover flange for covering said fixing screw.

[0022] In a further variant of a profile assembly according to this invention, the coupling wall forms part of a profile of the window profile assembly.

[0023] The invention is now explained in more detail below with reference to the following detailed description of some preferred profile assemblies according to this invention. The aim of this description is exclusively to give clarifying examples and indicate further advantages and features of these profile assemblies, and thus may in no sense be interpreted as a restriction of the area of application of the invention or of the protective rights claimed in the claims.

[0024] In this detailed description, by means of reference signs, reference is made to the appended drawings in which:

- figure 1 shows in cross-section a first embodiment of a profile assembly according to the prior art;
- figure 2 shows in cross-section a second embodiment of a profile assembly according to the prior art;
- figure 3 shows in cross-section a first embodiment of a profile assembly according to the invention;
- figure 4 shows in more detail a part of the profile assembly from figure 3 in which the grating profile is arranged separately from the awning device;
- figure 5 shows in more detail a second part of the profile assembly from figure 3 in which the grating profile is arranged adjacent to the awning device;
- figure 6 shows in exploded view the profiles of the awning profile assembly and the grating profile from figure 4 separately;
- figure 7 shows in exploded view the profiles of the awning profile assembly and the grating profile from figure 5 separately;
- figure 8 shows in cross-section a second embodiment of a profile assembly according to the invention;
- figure 9 shows in more detail a part of the profile assembly from figure 8 in which the grating profile is arranged separately from the awning device;
- figure 10 shows in more detail a second part of the profile assembly from figure 8 in which the grating profile is arranged adjacent to the awning device;
- figure 11 shows in exploded view the profiles of the awning profile assembly and the grating profile from figure 9 separately;
- figure 12 shows in exploded view the profiles of the awning profile assembly and the grating profile from figure 10 separately;
- figure 13 shows in cross-section a third embodiment of a profile assembly according to the invention;
- figure 14 shows in exploded view, separately, the profiles of the awning profile assembly of the profile

assembly from figure 13, where the awning device is arranged separately from the grating profile;

- figure 15 shows in exploded view, separately, the profiles of the awning profile assembly of the profile assembly from figure 13, where the awning device is arranged adjacent to the grating profile;
- figure 16 shows in exploded view, separately, the profiles of the awning profile assembly of the profile assembly from figure 13, where the grating profile is arranged separately from the awning device.

[0025] The profile assemblies (1) for a combined awning and grating device according to the prior art have been described above.

[0026] The profile assemblies (1) according to the invention also comprise in each case a window profile assembly (2).

This window profile assembly (2) is designed to hold a glazing (39), as can be seen e.g. in the embodiment of figure 3, but may also serve for holding panels or gratings etc. Thus for example, in figure 13, an insulating panel (40) is held in the window profile assembly (2).

The window profile assembly (2) in each case comprises a fixed window part (4) and a window part (3) which can be opened with respect to the fixed window part (4). In the embodiment of figure 13, the fixed window part (4) is provided with glazing (39), and the openable window part (3) is provided with the insulating panel (40).

[0027] A grating profile (5) is in each case arranged in front of the openable window part (3) for shielding the openable window part (3).

The grating profile (5) is provided with an attachment groove (38) for holding slats (not shown) for forming a ventilation grating. Examples for holding slats in such a grating profile (5) are known from the prior art, such as e.g. from BE 1 012 000 A3, NL 2 002 316 C and BE 1 019 505 A5, so will not be discussed in more detail here. In the closed state of the openable window part (3) as shown in the figures, the ventilation grating is closed. In open state of the openable window part (3), large quantities of air can flow via the ventilation grating through one or more rooms to be ventilated in a building.

[0028] Awning profile assemblies (6), which are contained in an awning device and to this end provided with awning guides (32), are in each case arranged in front of the fixed window part (4).

This awning device comprises for example an awning (not shown) which can be rolled onto and unrolled from an awning roller, wherein thickened lateral sides of this awning are guided in the awning guides (32). These lateral sides may for this for example be provided with a half zip closure. Also, examples of such awning devices are known from the prior art, so these will not be described in more detail here.

By means of this awning, the fixed window part (4) can be shielded by unrolling the awning, or exposed by rolling up the awning.

[0029] In the depicted embodiments according to the

invention, the grating profile (5) is now in each case provided with a laterally protruding flange (9), and adjacent awning profile assemblies (6) are provided with a flange-receiving cavity (10) in which said flange (9) is received.

[0030] All awning profile assemblies (6) contain a base profile (11).

[0031] The base profile (11) in each case comprises a coupling wall (12) which couples the awning profile assembly (6) to the window profile assembly (12).

In the first two embodiments depicted (see figures 3-5 and 8-10), this coupling wall (12) is screwed to a profile (28) of the window assembly (2) by means of fixing screws (8). In the third embodiment depicted (see figures 13-16), the base profile (11) and hence also this coupling wall (12) form part of a profile (28) of the window profile assembly (2).

In the first embodiment depicted, the coupling walls (12) of the top and bottom awning profile assembly (6) shown are designed with single walls. The awning profile assembly (6) shown in the middle is provided with a double-walled coupling wall (12). In the second and third depicted embodiments, all awning profile assemblies (6) are provided with double-walled coupling walls (12). Alternatively, the single-walled coupling walls (12) may also be designed with double walls, and the double-walled coupling walls (12) may also be designed with single walls.

[0032] As well as the base profile (11), each awning profile assembly (6) comprises a closing profile piece (15, 20) which is attachable to the base profile (11). In addition, an awning side wall (19) may be provided which can also be fixed to the base profile (11).

In the awning profile assemblies (6) with a said flange-receiving cavity (10), the flange (9) can be arranged against the coupling wall (12), and the flange (9) is held between the closing profile piece (15) and the coupling wall (12) when the closing profile piece (15, 20) is attached to the base profile (11). In the embodiments depicted, the flange (9) is here fixedly screwed to the coupling wall (12) by means of screws (31). The closing profile piece (15) is provided for shielding these screws (31).

[0033] In the awning profile assemblies (6) without said flange-receiving cavity (10), the base profile (11) together with the closing profile piece (20) forms an awning-receiving cavity (22) for receiving therein an awning guide (32) for holding the lateral side of the awning.

In the awning profile assemblies (6) of the awning device arranged next to the grating profile (5), the base profile (11) together with the awning side wall (19) forms an awning-receiving cavity (22) for receiving therein an awning guide (32) for holding the lateral side of the awning. In some cases, the awning profile assembly (6) may furthermore be provided with one or more additional profiles, such as the insertion profile (33), in the top and bottom awning profile assembly (6) in the first embodiment depicted, as shown in figure 3. In these embodiments, the flange (9) is arranged on the coupling wall (12) not directly but indirectly via said insertion profile (33) which thickens the coupling wall (12). This insertion

profile (33) is for this attached to the base profile (11) by means of screws (37), but could equally well be attached to said base profile (11) in another suitable manner.

[0034] As well as the coupling wall (12), the base profile (11) in each case comprises a rear wall (13) which protrudes with respect to the coupling wall (12).

[0035] In addition, the base profile (11) may also comprise a grating side wall (14) or an awning side wall which forms an integral part of the base profile (11). This grating side wall (14) or awning side wall here stands at the end of the rear wall (13) remote from the coupling wall (12), with respect to the rear wall (13), in order to form a substantially U-shaped base profile (11). This is the case in the depicted awning profile assemblies (6) shown at the top and bottom of the first embodiment in figure 3. In these embodiments, the closing profile piece (15), (20) can be fastened into the U-shaped base profile (11) adjacent to the grating side wall (14) or the awning side wall.

[0036] For the base profiles (11) which are not provided with a grating side wall (14) or awning side wall, a fixing collar (16) is provided at the end of the rear wall (13) remote from the coupling wall (12), for fastening the closing profile piece (15) to the rear wall (13), so that said closing profile piece (15) protrudes with respect to the rear wall (13). In the embodiments depicted, this fixing collar (16) is designed double-walled in order to form a screw channel (23) for arranging therein screws (26) for fastening the closing profile piece (15) to the rear wall (13). Correspondingly, the closing profile piece (15) is provided with a fixing leg (35) which is designed double-walled for forming a screw channel (36), for arranging these screws (26) therein. Instead of making the closing profile piece (15) fastenable via screws (26) in this way, this closing profile piece (15) may additionally or alternatively also be made fastenable by a clip fastening and/or hook connection etc.

[0037] For the base profiles (11) of the awning profile assemblies (6) of the awning devices arranged adjacent to the grating profile (5), at the end of the rear wall (13) remote from the coupling wall (12), a second fixing collar (16) is provided for fastening the awning side wall (19) to the rear wall (13), so that said awning side wall (19) protrudes with respect to the rear wall (13), at the side of the rear wall (13) opposite the side where the closing profile piece (15) is attachable. In the depicted embodiments, this second fixing collar (21) is designed double-walled to form a screw channel (24) for arranging therein screws (26) for fastening the awning side wall (19) to the rear wall (13). Correspondingly, the awning side wall (19) is provided with a fixing leg (35) which is designed double-walled for forming a screw channel (36), for arranging these screws (26) therein. Instead of making this awning side wall (19) fastenable via screws (26) in this way, this awning side wall (19) may additionally or alternatively be made fastenable by means of a clip fastening and/or a hook connection etc.

[0038] In the first two embodiments depicted, the rear wall (13) of the awning profile assemblies (6) which are

provided with both a flange-receiving cavity (10) and with an awning-receiving cavity (22), are each designed double-walled for forming a screw channel (25), for arranging therein fixing screws (8) for coupling the coupling wall (12) to a profile (28) of the window profile assembly (2). In order to conceal these fixing screws (8) from view, the closing profile piece (15) is provided with a cover flange (29), and the awning side wall (19) is provided with a cover flange (30). These cover flanges (29, 30) may together cover these fixing screws (8) (see figures 3, 5, 8 and 10).

[0039] In the depicted embodiments, the flange (9) of the grating profile (5) is formed stepped. The coupling wall (12) is correspondingly provided with a shoulder (18) which protrudes with respect to the coupling wall (12), so that this stepped part (17) of the flange (9) engages behind this shoulder (18) when the flange (9) is arranged against the coupling wall (12). This shoulder (18) may be provided either as an integral part of the coupling wall (12) or it may form part of an above-mentioned insertion profile (33) for arranging this on the coupling wall (12).

Claims

1. Profile assembly (1), comprising:

- a window profile assembly (2) for holding glazing (39), wherein said window profile assembly (2) comprises an openable window part (3) and a fixedly arranged, adjacent window part (4) which is arranged adjacent to the openable window part (3) so that the two window parts (3, 4) extend substantially in a same plane;
- a grating profile (5) coupled to the window profile assembly (2) for holding slats for shielding the openable window part (3); and
- an awning profile assembly (6) for holding a lateral side of an awning for shielding the fixedly arranged window part (4);

characterized in that the grating profile (5) comprises a laterally protruding flange (9) and that the awning profile assembly (6) comprises a flange-receiving cavity (10) for receiving said flange (9) therein.

2. Profile assembly (1) according to Claim 1, **characterized in that** the awning profile assembly (6) comprises:

- a base profile (11) which is provided with a coupling wall (12) via which the awning profile assembly (6) is coupled to the window profile assembly (2), wherein the flange (9) can be arranged against this coupling wall (12); and
- a closing profile piece (15) which is attachable to the base profile (11) for forming the flange-receiving cavity (10).

3. Profile assembly (1) according to Claim 2, **characterized in that** the closing profile piece (15) is provided for holding the flange (9) between the closing profile piece (15) and the coupling wall (12).

4. Profile assembly (1) according to Claim 2 or 3, **characterized in that** the flange (9) is stepped and that the coupling wall (12) is provided with a shoulder (18) which protrudes with respect to the coupling wall (12) such that the stepped part (17) of the flange (9) engages behind the shoulder (18) when the flange (9) is arranged against the coupling wall (12).

5. Profile assembly (1) according to any of Claims 2 to 4, **characterized in that** the base profile (11) comprises a rear wall (13) which protrudes with respect to the coupling wall (12).

6. Profile assembly (1) according to Claim 5, **characterized in that** the base profile (11) has a grating side wall (14) which protrudes with respect to the rear wall (13) at an end of the rear wall (13) remote from the coupling wall (12).

7. Profile assembly (1) according to Claim 5, **characterized in that** the closing profile piece (15) is attachable to an end of the rear wall (13) remote from the coupling wall (12) in order to protrude relative to the rear wall (13) so as to form, together with the rear wall (13) and the coupling wall (12), the flange-receiving cavity (10).

8. Profile assembly (1) according to Claim 7, **characterized in that** the awning profile assembly (6) has a fixing collar (16) which protrudes relative to the rear wall (13), at the end of the rear wall (13) remote from the coupling wall (12), for fastening the closing profile piece (15) to the rear wall (13).

9. Profile assembly (1) according to Claim 8, **characterized in that** the fixing collar (16) is designed double-walled in order to form a screw channel (23) for arranging therein screws (26) for fastening the closing profile piece (15) to the rear wall (13).

10. Profile assembly (1) according to any of Claims 6 to 9, **characterized in that** the awning profile assembly (6) comprises an awning side wall (19) which is provided at the end of the rear wall (13) remote from the coupling wall (12), so as to protrude relative to the rear wall (13) at the side of the rear wall (13) opposite the side where the closing profile piece (15) is attachable, in order to form, together with the rear wall (13) and the coupling wall (12), an awning-receiving cavity (22) for holding the lateral side of the awning.

11. Profile assembly (1) according to Claim 10, **characterized in that** the awning profile assembly (6) com-

prises a second fixing collar (21) which protrudes with respect to the rear wall (13), at the end of the rear wall (13) remote from the coupling wall (12), in order to fix the awning side wall (19) to the rear wall (13).

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12. Profile assembly (1) according to any of Claims 2 to 11, **characterized in that** the rear wall (13) is designed double-walled in order to form a screw channel (25) for arranging therein a fixing screw (8) for coupling the coupling wall (12) to a profile (28) of the window profile assembly (2).
13. Profile assembly (1) according to Claim 12, **characterized in that** the closing profile piece (15) is provided with a cover flange (29) for covering the fixing screw (8).
14. Profile assembly (1) according to any of Claims 2 to 13, **characterized in that** the coupling wall (12) forms part of a profile (28) of the window profile assembly (2).
15. Profile assembly (1) according to any of Claims 2 to 14, **characterized in that** the profile assembly (1) comprises screws (31) for fastening the flange (9) against the coupling wall (12), and that the closing profile piece (15) is provided for shielding these screws (31).

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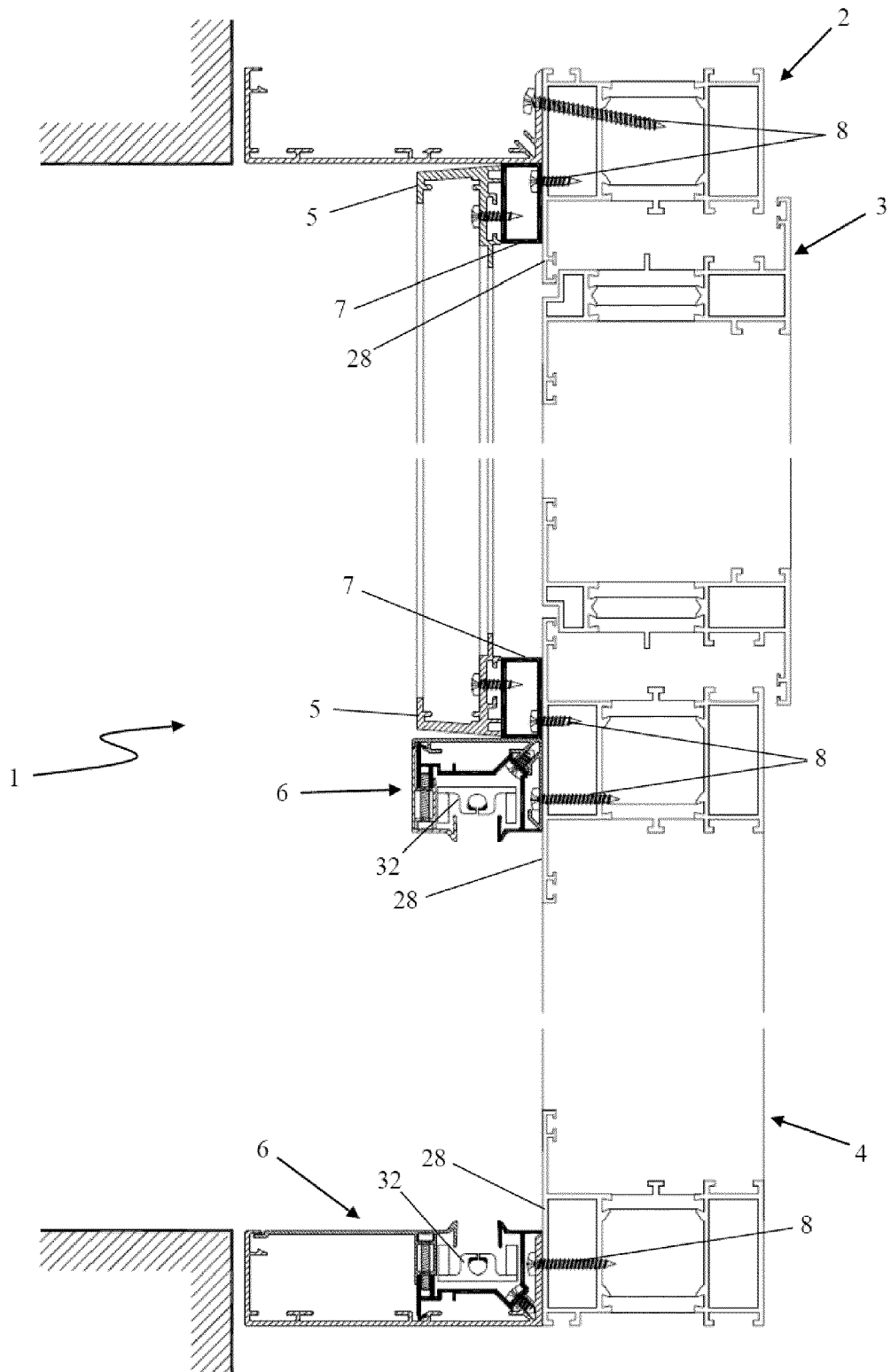
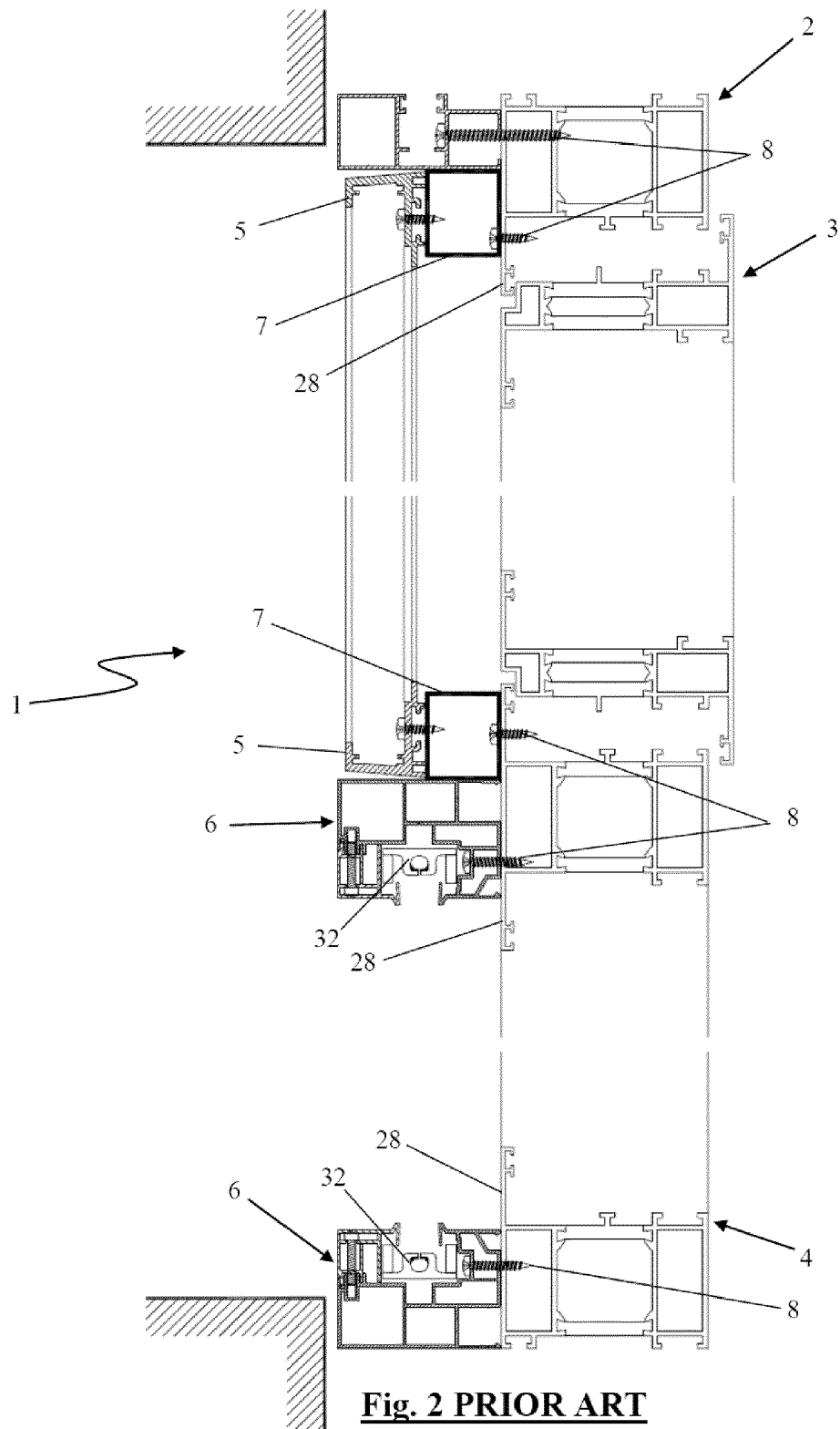


Fig. 1 PRIOR ART



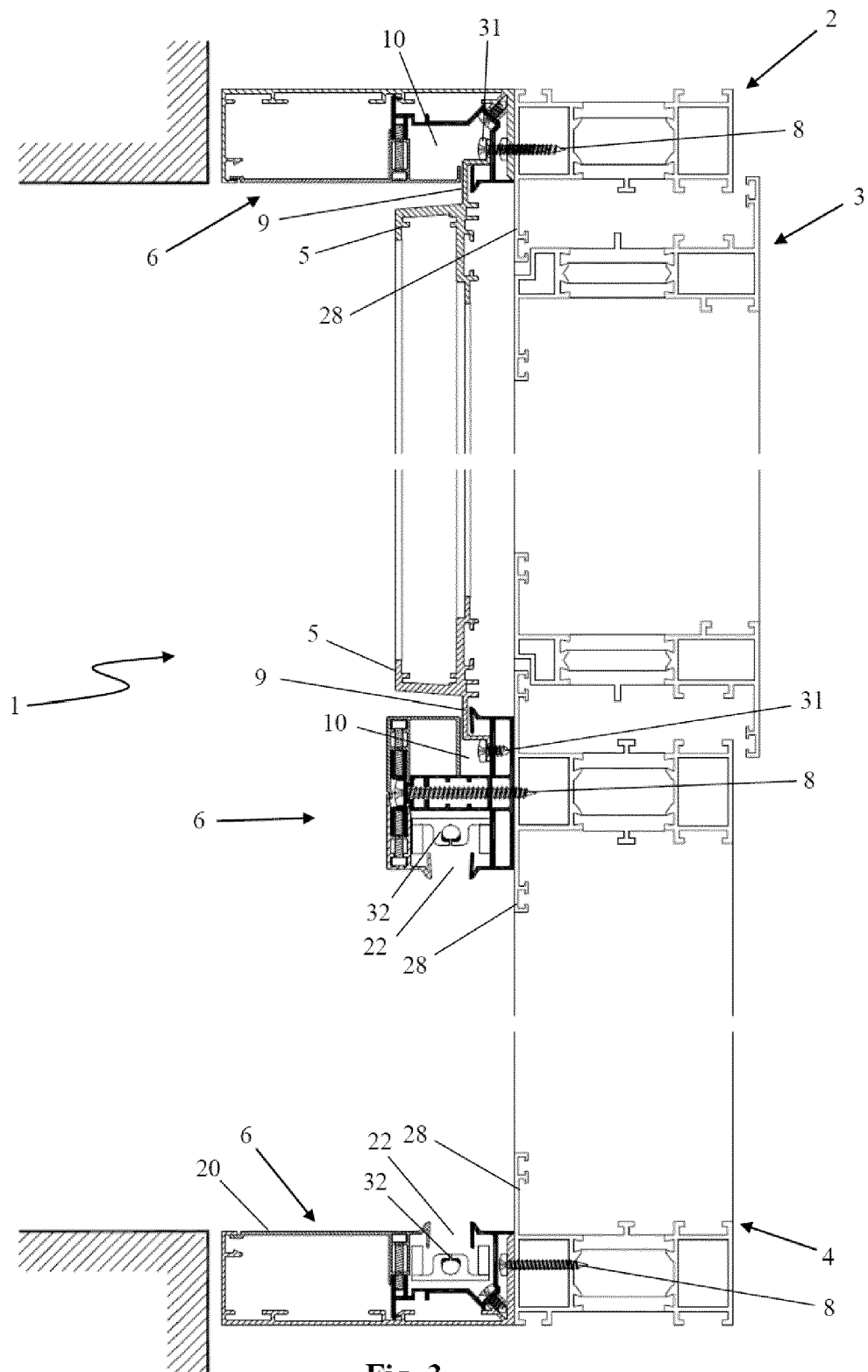


Fig. 3

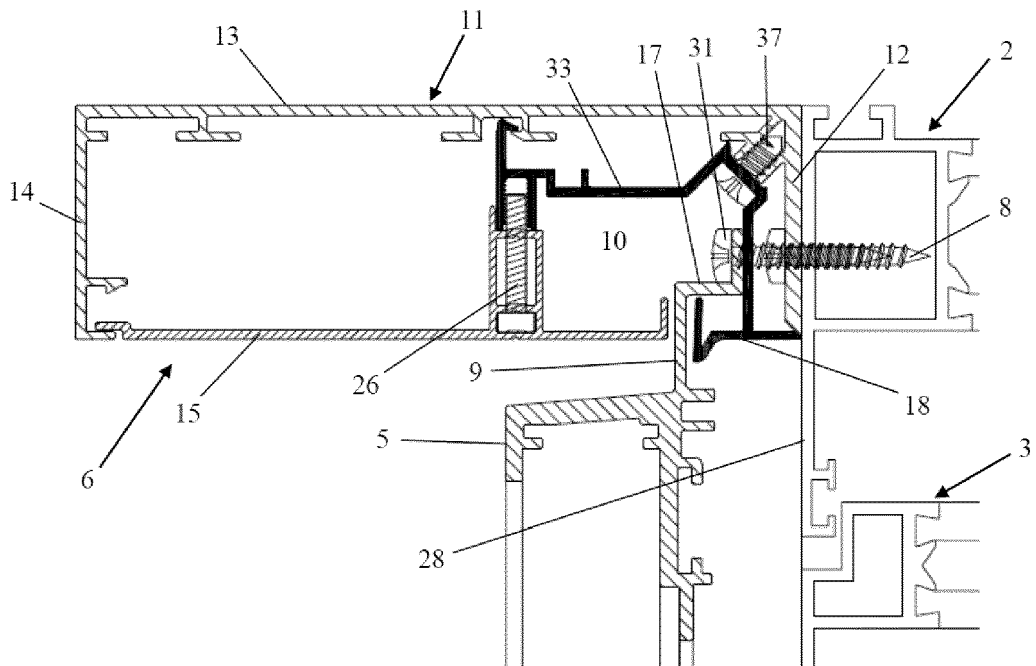


Fig. 4

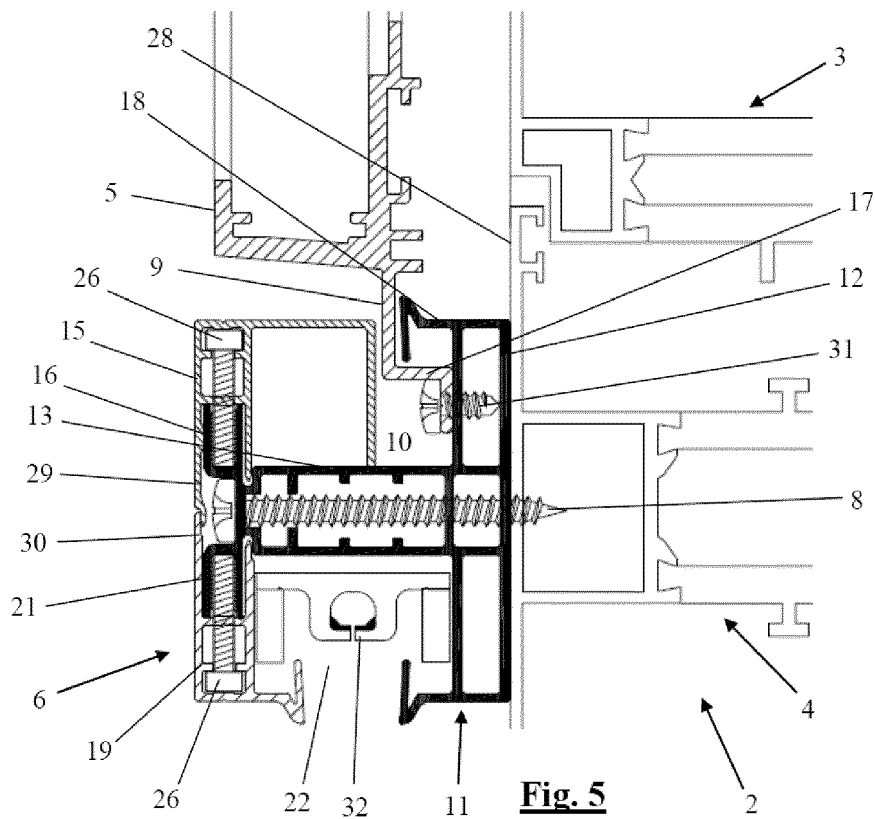


Fig. 5

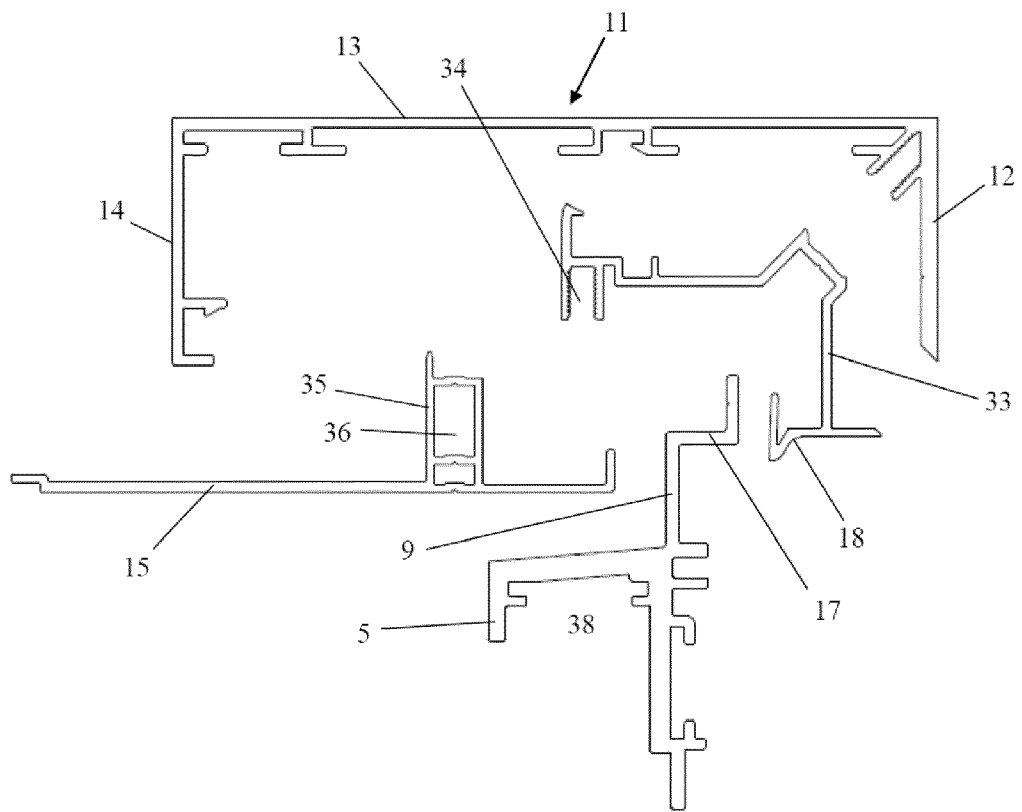


Fig. 6

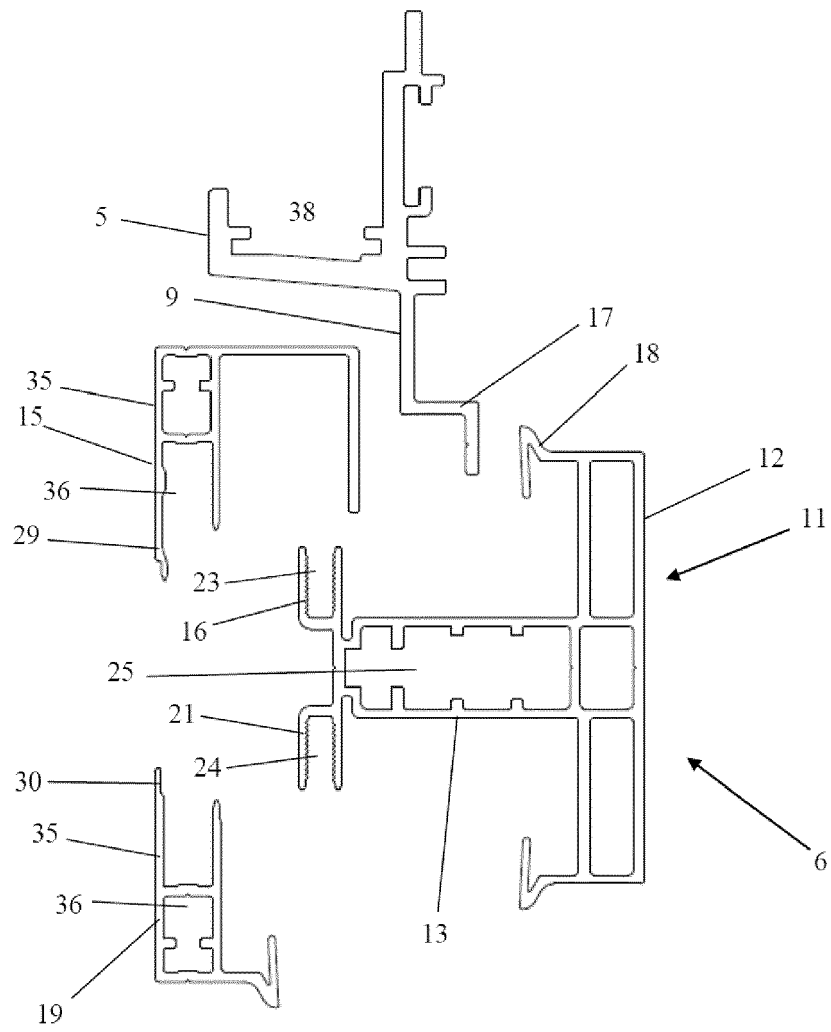


Fig. 7

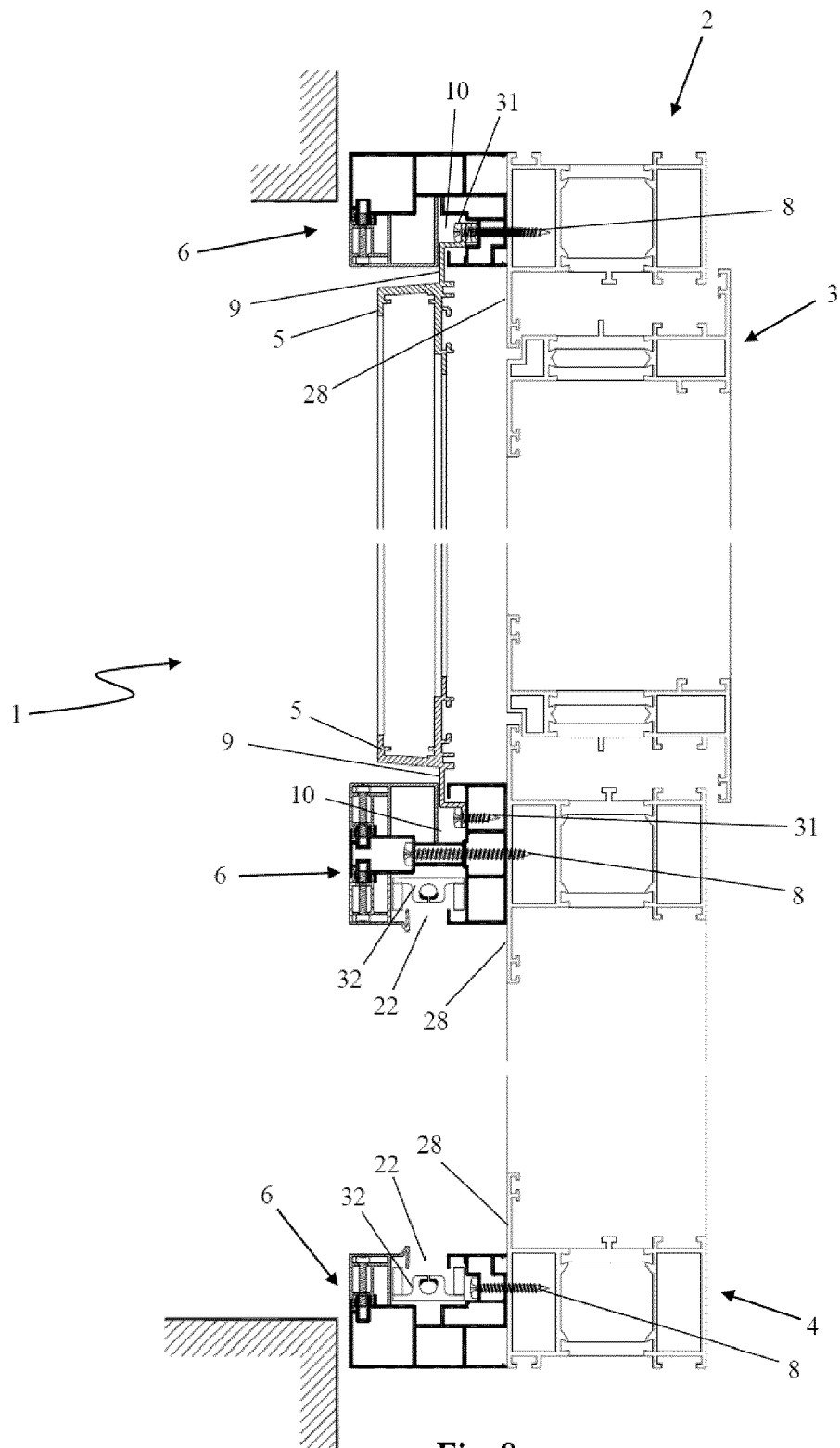


Fig. 8

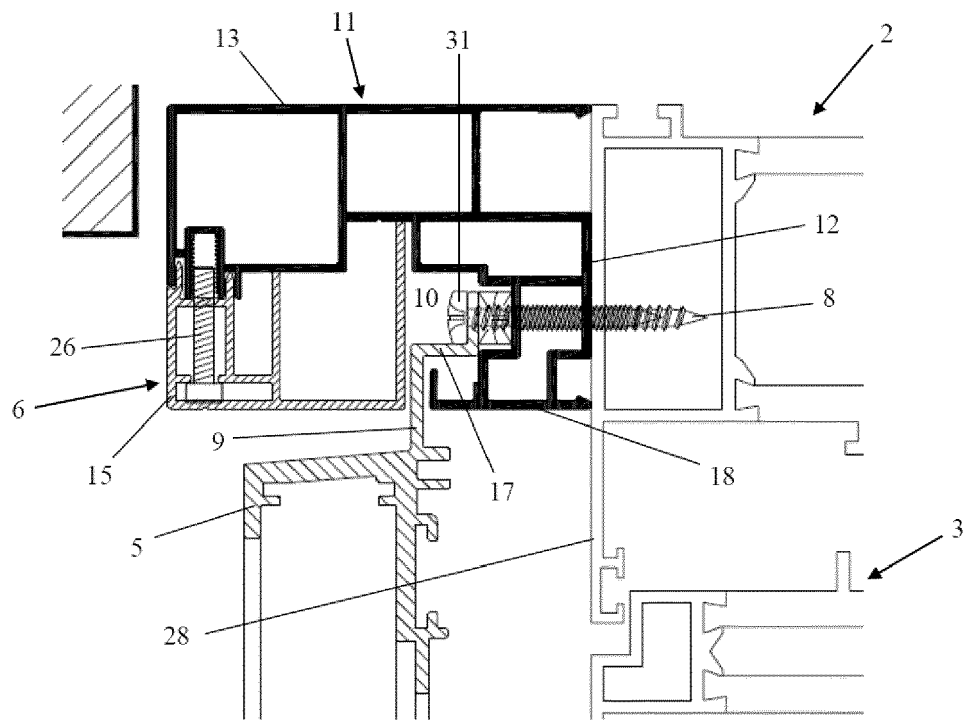


Fig. 9

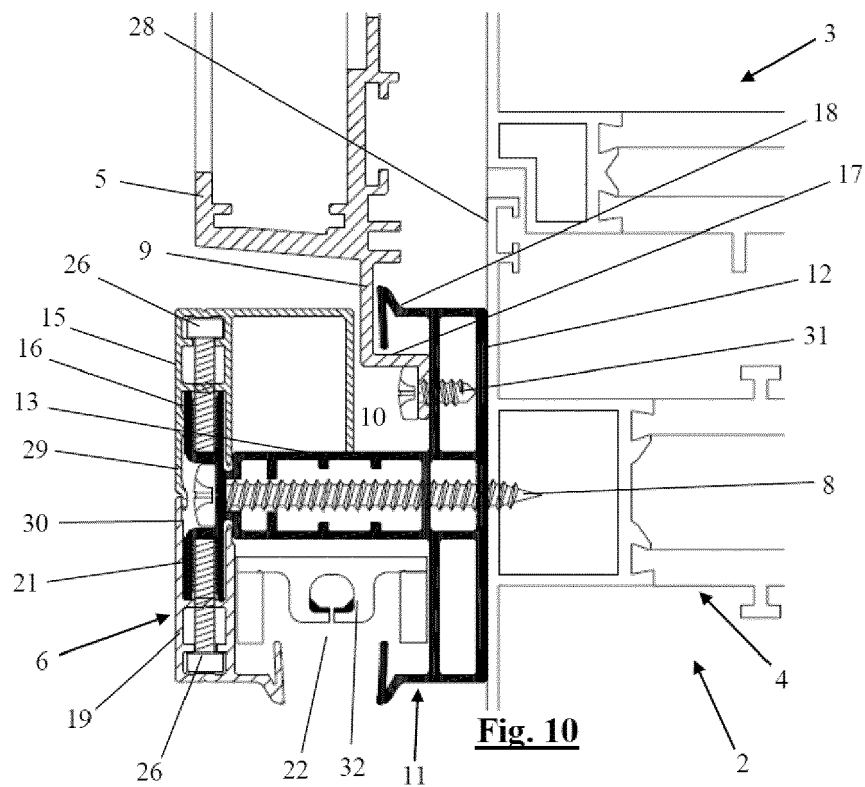


Fig. 10

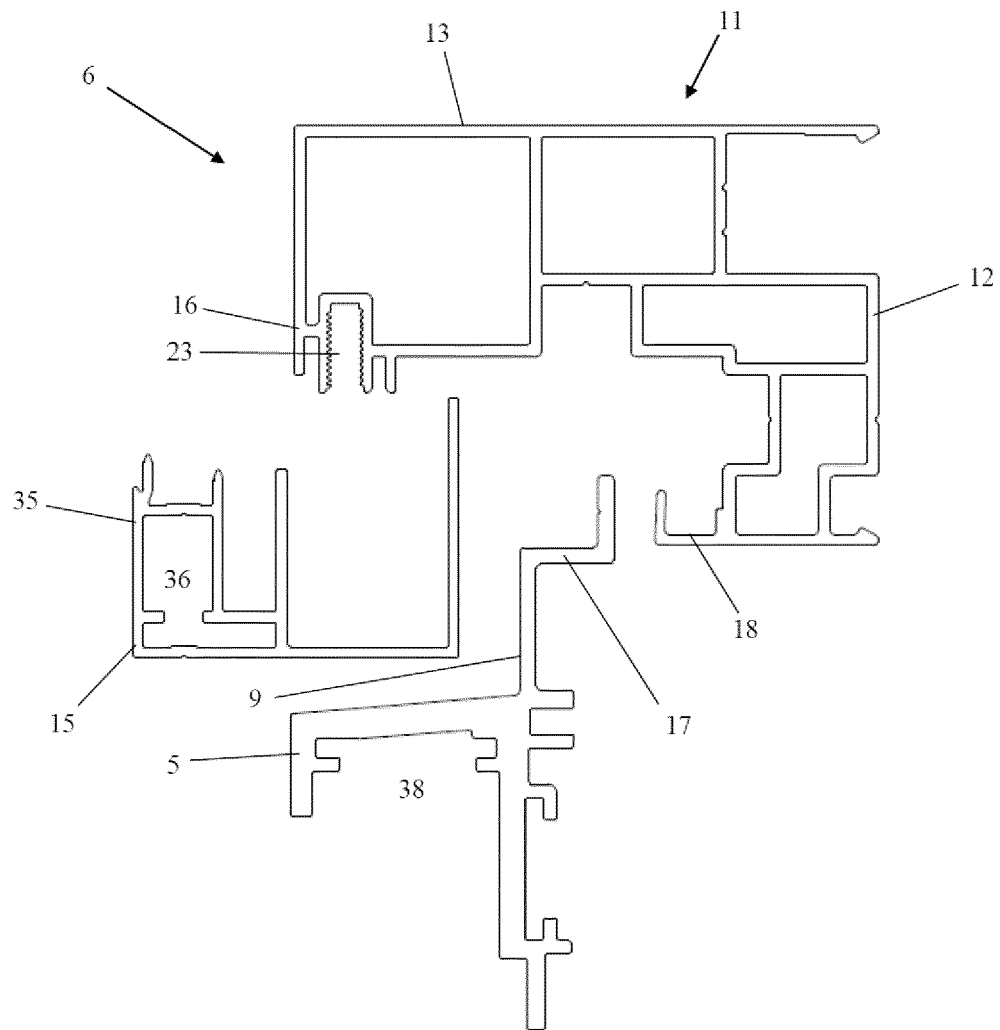


Fig. 11

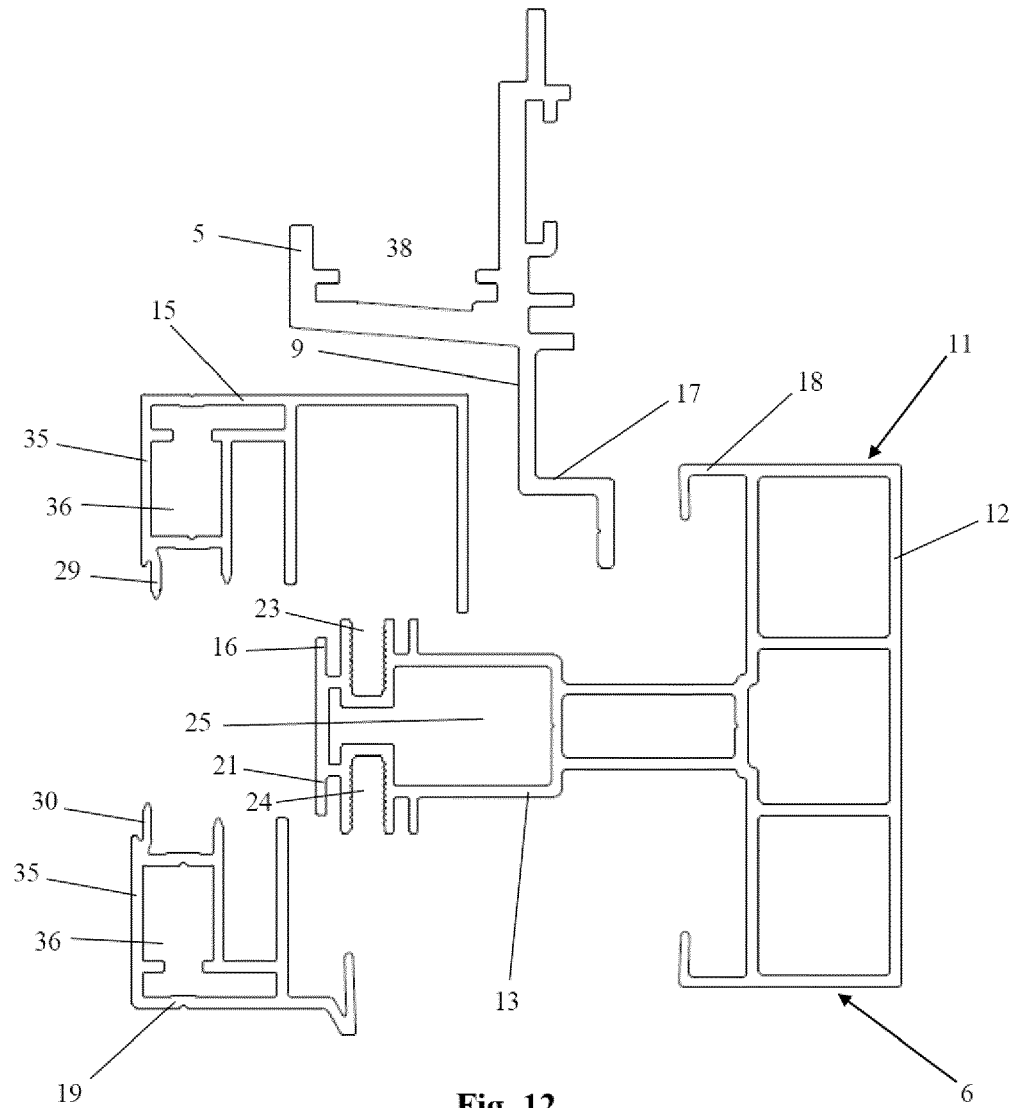


Fig. 12

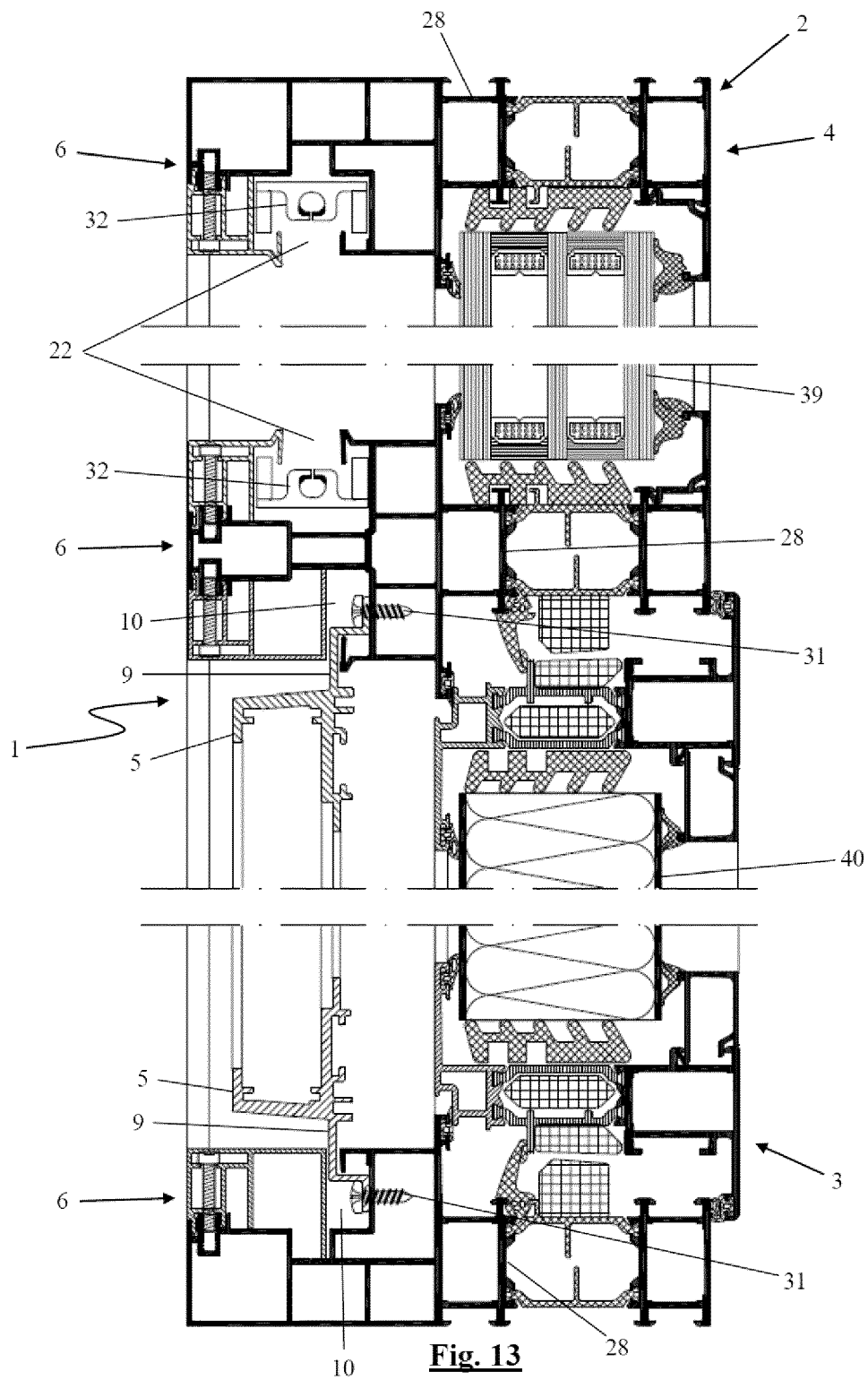


Fig. 13

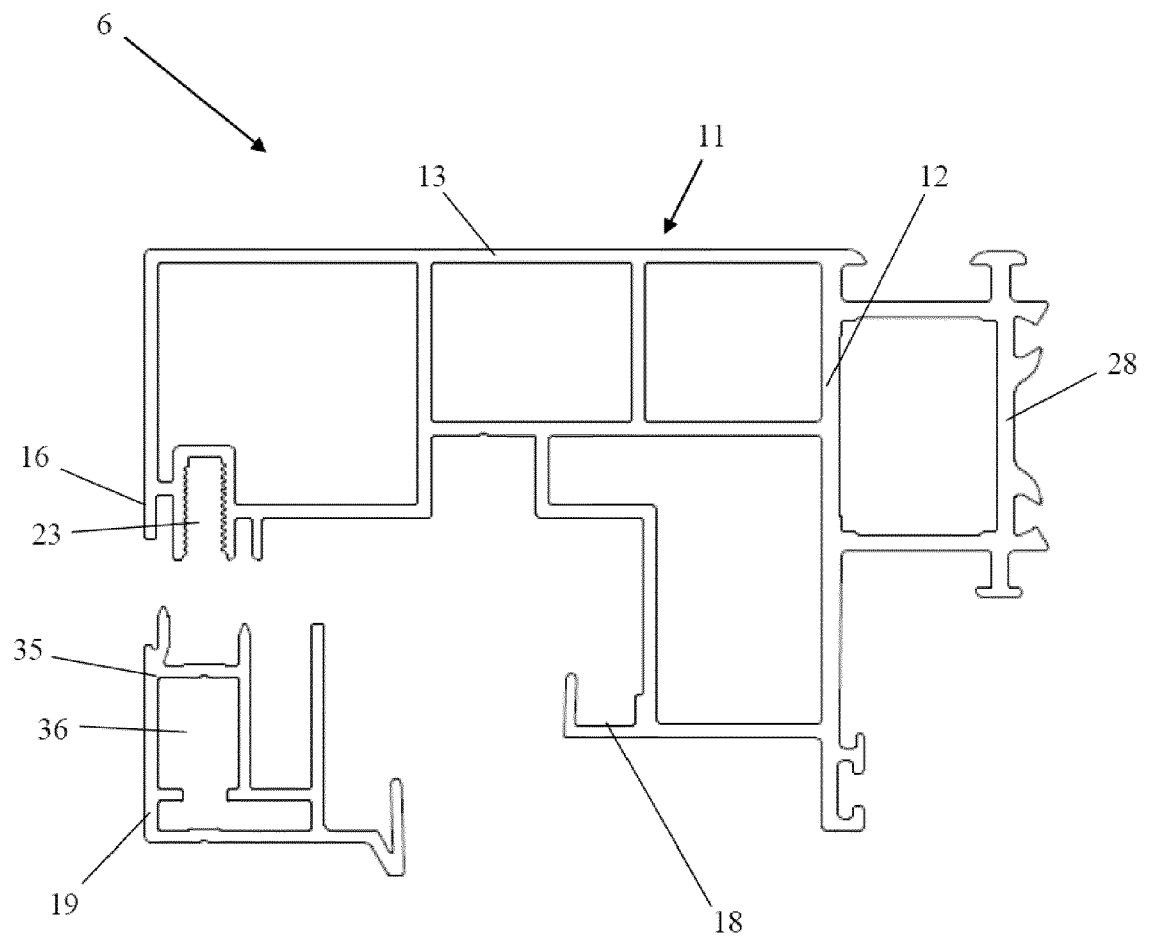


Fig. 14

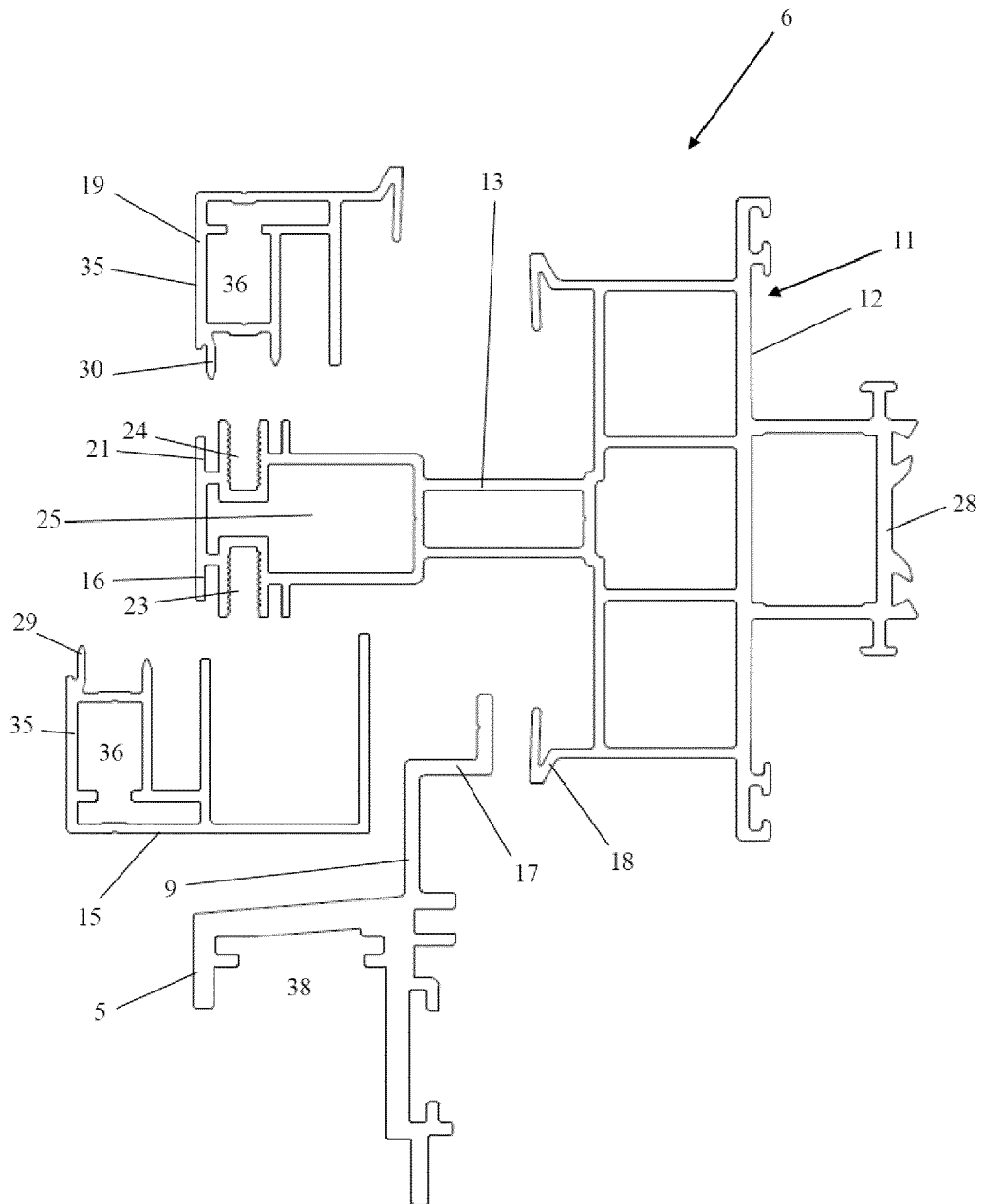


Fig. 15

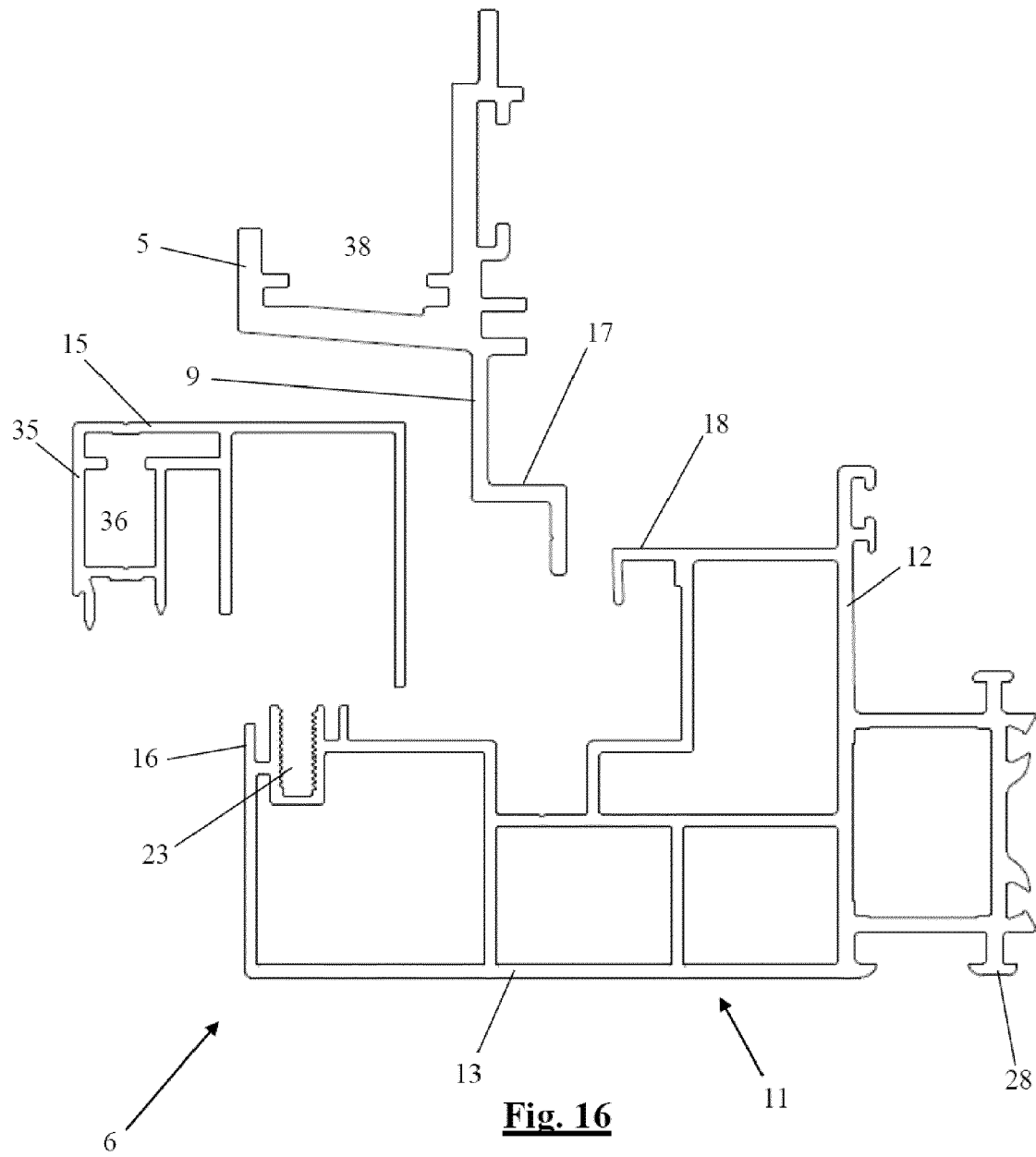


Fig. 16



EUROPEAN SEARCH REPORT

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			TECHNICAL FIELDS SEARCHED (IPC)
			E06B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 November 2021	Examiner Blancquaert, Katleen
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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