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(54) **COVER PANEL**

(57) Sectional door (1) comprising a pass door (2). A first main section (101, 102, 103) comprises a first main section edge (121, 122, 123) facing a primary pass door section (201, 202, 203). The primary pass door section (201, 202, 203) comprises a first pass door section edge (221, 222, 223) facing the first main section (101, 102, 103). The first main section (101, 102, 103) comprises a first main door profile (111, 112, 113) at the first main

section edge (121, 122, 123). The primary pass door section (201, 202, 203) comprises a first pass door profile (211, 212, 213) at the first pass door section edge (221, 222, 223). The primary pass door section (201, 202, 203) comprises a first cover panel (301, 302, 303) covering both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213).

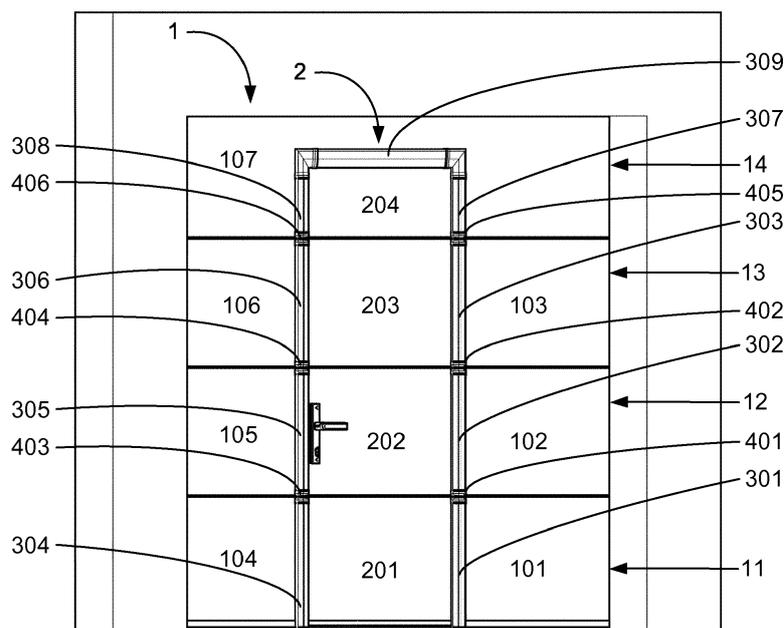


Fig. 1

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Description

TECHNICAL FIELD

[0001] The present invention relates to a sectional door comprising a pass door.

BACKGROUND ART

[0002] It is known to have a pass door for pedestrians in a sectional, in particular in industrial doors and relatively large garage doors. The pass door enables pedestrians to walk or smaller objects or vehicles, such as bikes, to pass the sectional door without having to open the complete sectional door.

[0003] The pass door usually has sections corresponding to the height of the sections of the sectional doors. The sections of the sectional door are hinged to each other such that they can be folded when guided by a track during opening and closing of the sectional door. In a similar manner, the sections of the pass door are hinged to each other such that they can be folded during opening and closing of the sectional door. The edges of the sections of the sectional door facing the pass door are usually provided with profiles, which typically are made of aluminium. Similarly, the edges of the sections of the pass door facing the sectional door sections are usually provided with profiles, which typically are made of aluminium.

[0004] FR 2 967 446 discloses a sectional door (1) comprising a door plate (2) comprising blades (3) that are consecutively and parallel hinged to each other by their rear face and having an axis of rotation that is parallel to the direction of the blades (3). A gate (5) is arranged in the door plate (2). The gate (5) is formed of panels (7) that are consecutively and parallel hinged to each other by their rear face and having an axis of rotation that is parallel to the direction of the blades (3). The gate (5) has a first side (51) that is perpendicular to the direction of the panels (7) and that is hinged to the door plate (2). The gate (5) has a second side (52) that is perpendicular to the direction of the panels (7) and that has a multipoint lock. A first profile (9) is placed on each end (71) of the edge of each panel (7). A second profile (9') is placed at the edge of the blades (3) facing each edge of each panel (7). The first profile (9) cooperates with the second profile (9') when the gate (5) is closed to close the space between the panels (7) and the blades (3). A third profile (11) is disposed between each panel (7) and the first profile (9) and a fourth panel (11') is disposed between each blade (3) and the second profile (9') to ensure rigidity of the panels (7) and blades (3).

[0005] However, there exists a need for an improved and alternative sectional door having a pass door.

SUMMARY OF THE INVENTION

[0006] One object of the present invention is to provide

a simplified sectional door having a pass door. One object of the present invention is to provide a sectional door having a pass door with improved aesthetic appearance.

[0007] These and further objects are achieved by a sectional door comprising a pass door as claimed in the independent claim 1, preferred variants thereof being defined in the associated dependent claims.

[0008] The sectional door comprising a pass door according to claim 1 comprises a plurality of horizontal sections, wherein at least one of the horizontal sections is a horizontal primary section. Each horizontal primary section comprises a primary pass door section and a first main section arranged at a first side of the primary pass door section and a second main section arranged at a second side of the primary pass door section. The first main section comprises a first main section edge facing the primary pass door section, and the primary pass door section comprises a first pass door section edge facing the first main section. The first main section comprises a first main door profile at the first main section edge. The primary pass door section comprises a first pass door profile at the first pass door section edge. The primary pass door section comprises a first cover panel covering both the first main door profile and the first pass door profile.

[0009] The above and further objects are also achieved by a pass door profile assembly for a sectional door with a pass door as claimed in the independent claim 16, preferred variants thereof being defined in the associated dependent claims.

[0010] The pass door profile assembly according to claim 16 comprises a main door profile for arrangement at an edge of a main section of the sectional door facing the pass door, a pass door profile for arrangement at an edge of a pass door section adjacent to said main section facing said main section, and a cover panel covering both said main door profile and said pass door profile.

[0011] The sectional door comprising a pass door as well as the pass door profile assembly of the present invention enable an easy production as well as an easy installation of a sectional door having a pass door is achieved. Since the cover panel covers the profiles, the accuracy of the cutting and mounting of the profiles is decreased. Since the profiles not are visible, the profiles do not need to have any particularly nice looking fitting. The ends of the profiles do not need to be totally straight and thereby the cutting is simplified and easily performed with even a hand saw such as a hacksaw or an angle grinder. Further, the lengths of the profiles do not have to exactly fit the height of the sections and thereby the cutting is also simplified and easily performed. Since both profiles are covered by the cover panel, the cover panel easily covers the profiles that not may be nicely fitted. The cover panel covering both profiles is a convenient way of achieving coverage of profiles which thereby do not need to be nicely fitted. Further, only one panel is necessary to cover both profiles. The cover panel also improves the aesthetic appearance of the sectional door

since the profiles even if nicely fitted not are visible. Since only one cover panel is needed to cover both profiles, a very nice smooth surface is obtainable that is aesthetically appealing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012]

Figure 1 is a perspective view of the front side of an embodiment of a sectional door with a pass door according to the present invention, where the door profile is covered by a cover panel;

Figure 2 is a perspective view of the back side of the embodiment shown in figure 1;

Figure 3 is a perspective view of the front side of the embodiment shown in figure 1 where the pass door is open and where the cover panel has been removed;

Figure 4 is a perspective view of a horizontal primary section of the embodiment of a sectional door with a pass door shown in figure 1 where the cover panel has been removed;

Figure 5 is a perspective view of a horizontal secondary section of the embodiment of a sectional door with a pass door shown in figure 1 where the cover panel has been removed;

Figure 6 is a perspective view of an embodiment of a cover panel according to the present invention;

Figure 7 is a cross sectional view of the embodiment of a cover panel shown in figure 6;

Figure 8 is a perspective view of an embodiment of a cover attachment means according to the present invention in the form of a fastening attachment means;

Figure 9 is a cross sectional view of the embodiment of a cover attachment means shown in figure 8 attached to a pass door profile and extending over a main door profile;

Figure 10 is a perspective view of an embodiment of a cover attachment means according to the present invention in the form of a hinge attachment means;

Figure 11 is a cross sectional view of the embodiment of a cover attachment means shown in figure 10 attached to a pass door profile and a main door profile;

Figure 12 is a cross sectional view of the embodiment

of a cover attachment means shown in figures 8 and 9 attached to a pass door profile and extending over a main door profile, where a cover panel is attached to the cover attachment means;

Figure 13 is a cross sectional view of the embodiment of a cover attachment means shown in figures 10 and 11 attached to a pass door profile and a main door profile, where a cover panel is attached to the cover attachment means;

Figure 14 is a perspective view of an embodiment of a gap cover according to the present invention;

Figure 15 is a perspective view of a horizontal secondary section and the top most horizontal primary section of the embodiment of a sectional door shown in figure 1 with the cover panels and the gap covers attached;

Figure 16 is a perspective view of the backside of a cover panel with a gap cover according to an embodiment of the present invention;

Figure 17 is a perspective view of the embodiment of a gap cover shown in figures 14-16 with its flexible member;

Figure 18 is a perspective view of a hinge on the back side of the embodiment of a sectional door shown in figure 2;

DETAILED DESCRIPTION

[0013] As stated above, the present invention relates to a sectional door (1) comprising a pass door (2). One such sectional door is shown in figures 1-3 and details thereof are shown in figures 4-18.

[0014] The sectional door (1) comprises a plurality of horizontal sections (11, 12, 13, 14). The number of horizontal sections is dependent on the height of the sectional door, i.e. the total height of the sectional door, and the height of each horizontal section.

[0015] The sectional door is guided in a conventional guide track system (not shown). The guide track system typically comprises two guide tracks, wherein one guide track is arranged at each side of the sectional door, i.e. one guide track on the right side of the sectional door and one guide track on the left side of the sectional door. Each guide track comprises a vertical track portion, a horizontal track portion and a curved track portion connecting the horizontal and vertical track portions.

[0016] The horizontal sections (11, 12, 13, 14) of the sectional door (1) are connected to each other by means of hinges (501, 502). Each section is hinged to at least one other section by means of hinges. The pass door sections are hinged to each other by means of hinges (502). The main sections are hinged to each other by

means of hinges (501). When the sectional door is guided by the guide tracks during opening and closing of the sectional door the sections will pivot in relation to each other due to the shape of the guide tracks which has both a vertical and a horizontal portion. The pivoting of the sections of the sectional door is partly visualized in figure 15. The hinges (501, 502) are typically located on the backside of the door as shown in figure 2. Since the hinges are located on the backside, i.e. the inner side, of the sectional door, the gap between the front surfaces of the sections increases when the sections are pivoted during opening of the sectional door and decreases when the sections are pivoted during closing of the sectional door. This is partly visualized in figure 15. The hinges (501, 502) are devised as shown in figure 18.

[0017] The sectional door (1) is a part of the sectional door (2). The pass door (2) is integrated in the sectional door (1).

[0018] At least two of the horizontal sections (11, 12, 13, 14) are a horizontal primary section (11, 12, 13). A horizontal primary section is a horizontal section comprising a primary pass door section. Thereby, a horizontal primary section is a horizontal section that comprises a pass door section but no upper door frame, i.e. a horizontal primary section is a horizontal section below the uppermost horizontal section that comprises a pass door section, as seen when the sectional door is vertically arranged, such as when the sectional door is closed. The sectional door shown in figures 1-3 comprises three horizontal primary sections (11, 12, 13). The number of horizontal primary sections is dependent on the height of the pass door and the height of each horizontal primary section.

[0019] In one aspect, one of the horizontal sections (11, 12, 13, 14) is a horizontal secondary section (14). A horizontal secondary section is a horizontal section comprising a secondary pass door section. Thereby, a horizontal secondary section is a horizontal section that comprises a pass door section that has an upper door frame, i.e. a horizontal primary section is the uppermost horizontal section that comprises a pass door section. The sectional door shown in figures 1-3 comprises one horizontal secondary section (14). A sectional door normally only has one horizontal secondary section. This reasoning, as well as the explanations herein, assumes a sectional door having only one pass door. However, a sectional door can comprise two or more pass doors and a skilled person realizes how the explanations of the present invention could be adapted thereto.

[0020] In one aspect, one of the horizontal sections (11, 12, 13, 14) is a horizontal tertiary section (not shown). A horizontal tertiary section is a horizontal section without a pass door section. Thereby, a horizontal tertiary section is a horizontal section above the uppermost horizontal section that comprises a pass door section. The sectional door shown in figures 1-3 does comprise any horizontal tertiary sections (11, 12, 13). The number of horizontal tertiary sections is dependent on the height of the sec-

tional door and the height of each horizontal tertiary section and may also be dependent on the number and height of the horizontal primary sections and the height of the horizontal secondary section.

[0021] Each horizontal primary section (11, 12, 13) comprises a primary pass door section (201, 202, 203), a first main section (101, 102, 103) and a second main section (104, 105, 106). The first main section (101, 102, 103) is arranged at a first side of the primary pass door section (201, 202, 203). The second main section (104, 105, 106) is arranged at a second side of the primary pass door section (201, 202, 203). The primary pass door section (201, 202, 203) is arranged between the first main section (101, 102, 103) and the second main section (104, 105, 106). In the sectional door shown in figures 1-3, the first main section (101, 102, 103) is arranged on the right side of the primary pass door section (201, 202, 203) and the second main section (104, 105, 106) is arranged on the left side of the primary pass door section (201, 202, 203) as seen from the outside of the sectional door (as seen in figures 1 and 3). The sectional door shown in figures 1-3 comprises three primary pass door sections (201, 202, 203), three first main sections (101, 102, 103) and three second main sections (104, 105, 106). The first main section (101, 102, 103) can also be denoted first primary main section (101, 102, 103). The second main section (104, 105, 106) can also be denoted second primary main section (104, 105, 106).

[0022] The first main section (101, 102, 103) comprises a first main section edge (121, 122, 123) facing the primary pass door section (201, 202, 203). The primary pass door section (201, 202, 203) comprises a first pass door section edge (221, 222, 223) facing the first main section (101, 102, 103). Thereby, the first main section edge (121, 122, 123) and the first pass door section edge (221, 222, 223) face each other and are adjacent to each other. In the sectional door shown in figures 1-3, the first main section edge (121, 122, 123) and the first pass door section edge (221, 222, 223) are on the right side of the pass door as seen from the outside of the sectional door (as seen in figures 1 and 3). The edges may be seen as edges that are created when a pass door section is cut out from a horizontal section of a sectional door previously without a pass door in order to produce a sectional door having a pass door.

[0023] The first main section (101, 102, 103) comprises a first main door profile (111, 112, 113) at the first main section edge (121, 122, 123). The primary pass door section (201, 202, 203) comprises a first pass door profile (211, 212, 213) at the first pass door section edge (221, 222, 223). The main door profiles stabilize the area around the pass door and give rigidity to and protect the edges of the main sections. The pass door profiles stabilize the pass door and give rigidity to and protect the edges of the pass door.

[0024] In one aspect, the second main section (104, 105, 106) comprises a second main section edge (124, 125, 126) facing the primary pass door section (201, 202,

203), and the primary pass door section (201, 202, 203) comprises a second pass door section edge (224, 225, 226) facing the second main section (104, 105, 106). Thereby, the second main section edge (124, 125, 126) and the second pass door section edge (224, 225, 226) face each other and are adjacent to each other. In the sectional door shown in figures 1-3, the second main section edge (124, 125, 126) and the second pass door section edge (224, 225, 226) are on the left side of the pass door as seen from the outside of the sectional door (as seen in figures 1 and 3).

[0025] In one aspect, the second main section (104, 105, 106) comprises a second main door profile (114, 115, 116) at the second main section edge (124, 125, 126), and the primary pass door section (201, 202, 203) comprises a second pass door profile (214, 215, 216) at the second pass door section edge (224, 225, 226).

[0026] In one aspect, the horizontal secondary section (14) comprises a secondary main section (107) and a secondary pass door section (204), wherein the secondary main section (107) comprises a cutout for the secondary pass door section (204). The secondary pass door section (204) is the uppermost pass door section. The secondary pass door section (204) is surrounded by the secondary main section (207) on the left side, the right side and the upper side of the secondary pass door section (204). On the lower side, the secondary pass door section (204) is surrounded by a primary pass door section (203). The secondary pass door section (204) is hinged to the uppermost of the primary pass door sections (203).

[0027] In one aspect, the secondary main section (107) comprises a first main section edge (127) facing the secondary pass door section (204). In one aspect, the secondary main section (107) comprises a second main section edge (128) facing the secondary pass door section (204). In one aspect, the secondary main section (107) comprises a top main section edge (129) facing the secondary pass door section (204). In one aspect, the secondary pass door section (204) comprises a first pass door section edge (227) facing the first main section edge (127) of the secondary main section (107). In one aspect, the secondary pass door section (204) comprises a second pass door section edge (228) facing the second main section edge (128) of the secondary main section (107). In one aspect, the secondary pass door section (204) comprises a top pass door section edge (229) facing the top main section edge (129) of the secondary main section (107). Thereby, the first main section edge (127) of the secondary main section (207) and the first pass door section edge (227) of the secondary pass door section (204) face each other and are adjacent to each other. In the same way, the second main section edge (128) of the secondary main section (207) and the second pass door section edge (228) of the secondary pass door section (204) face each other and are adjacent to each other. In the same way, the top main section edge (129) of the secondary main section (207) and the top pass door section edge (229) of the secondary pass door section (204) face each other and are adjacent to each other. In the sectional door shown in figures 1-3, the first main section edge (127) of the secondary main section (207) and the first pass door section edge (227) of the secondary pass door section (204) are on the right side of the pass door as seen from the outside of the sectional door (as seen in figures 1 and 3). In the sectional door shown in figures 1-3, the second main section edge (128) of the secondary main section (207) and the second pass door section edge (228) of the secondary pass door section (204) are on the left side of the pass door. In the sectional door shown in figures 1-3, the top main section edge (129) of the secondary main section (207) and the top pass door section edge (229) of the secondary pass door section (204) are on the upper side of the pass door.

[0028] In one aspect, the secondary main section (107) comprises a first main door profile (117) at the first main section edge (127). In one aspect, the secondary main section (107) comprises a second main door profile (118) at the second main section edge (128). In one aspect, the secondary main section (107) comprises a top main door profile (119) at the top main section edge (129). In one aspect, the secondary pass door section (204) comprises a first pass door profile (217) at the first pass door section edge (227). In one aspect, the secondary pass door section (204) comprises a second pass door profile (218) at the second pass door section edge (228). In one aspect, the secondary pass door section (204) comprises a top pass door profile (219) at the top pass door section edge (229).

[0029] In one aspect, the primary pass door section (201, 202, 203) comprises a first cover panel (301, 302, 303) covering both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213). By having a cover panel covering the profiles, an easy production as well as an easy installation of a sectional door having a pass door is achieved. Since the cover panel covers the profiles, the accuracy of the cutting and mounting of the profiles is decreased. Since the profiles are not visible, the profiles do not need to have any particularly nice looking fitting. The ends of the profiles do not need to be totally straight and thereby the cutting is simplified and easily performed with even a hand saw such as a hacksaw or an angle grinder. Further, the lengths of the profiles do not have to exactly fit the height of the sections and thereby the cutting is also simplified and easily performed. Since both profiles are covered by the cover panel, the cover panel easily covers the profiles that not may be nicely fitted. The cover panel covering both profiles is a convenient way of achieving coverage of profiles which thereby do not need to be nicely fitted. Further, only one panel is necessary to cover both profiles. The cover panel also improves the aesthetic appearance of the sectional door since the profiles even if nicely fitted are not visible. Since only one cover panel is needed to cover both profiles, a very nice smooth surface is obtainable that is aesthetically appealing. The first cover panel (301, 302, 303)

may be separate, such as a separate part, i.e. a separate part from the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213). Thereby, the first cover panel is not integrated in any of the profiles.

[0030] One way of producing a sectional door having a pass door is to cut the sections of a sectional door without a pass door, either before a new installation of the sectional door or when the sectional door is an existing sectional door without a pass door in which it is desired to have a pass door.

[0031] In one aspect, the first cover panel (301, 302, 303) covers both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213) when the pass door (2) is closed.

[0032] In one aspect, the cover panel has a width that covers both the main door profile and the pass door profile. In one aspect, the cover panel has a length corresponding to the length of the pass door profile and thereby also the length of the main door profile.

[0033] In one aspect, the profiles have a length corresponding to the height of the pass door section at which the profile is attached. In one aspect, the pass door profile and the main door profile adjacent each other have the same length.

[0034] In one aspect, the primary pass door section (201, 202, 203) comprises at least one first cover attachment means (231, 232, 233) attached at the first pass door profile (211, 212, 213) and the first cover panel (301, 302, 303) is attached to the first cover attachment means (231, 232, 233). The cover attachment means is a convenient way of attaching the cover panel to the pass door section. The cover attachment means may be attached to the pass door section, which is shown in figures 4, 9 and 11. The cover attachment means may be attached by means of screws. The cover attachment means may be attached to the pass door profile of the pass door section. In particular, the first cover attachment means may be attached to the first pass door profile. The cover panel is attached to the cover attachment means, which is shown in figures 12 and 13. The cover may be screwed to the cover attachment means as shown in figures 12 and 13.

[0035] In one aspect, on at least one of the horizontal primary sections (11, 12, 13), at least one of the first cover attachment means (231, 232, 233) is a hinge attachment means (231, 232, 233) comprising a hinge attached to the first main section (101, 102, 103) for opening and closing of the pass door (2). The hinge and the first cover attachment means are thereby integrated. Thereby, a simplified design is obtained. The number of parts is reduced and the costs may also be reduced. A hinge attachment means is shown in figures 10, 11 and 13. Preferably, at least one of the first cover attachment means is a hinge attachment means on at least two of the horizontal primary sections, or on at least one of the horizontal primary sections and the horizontal secondary section. At least one of the first cover attachment means may be a hinge attachment means on each of the hori-

zontal primary sections. Further, at least one of the first cover attachment means may be a hinge attachment means on the horizontal primary section. At least two of the first cover attachment means may be a hinge attachment means on each horizontal primary section. Each horizontal primary section may comprise at least two first cover attachment means. Each horizontal primary section may comprise two first cover attachment means. When each horizontal primary section comprises two first cover attachment means, each first cover attachment means may be a hinge attachment means, which is shown in figures 3 and 4. The horizontal secondary section may comprise one first cover attachment means. When the horizontal secondary attachment means comprises one first cover attachment means, the first cover attachment means may be a hinge attachment means, which is shown in figures 3 and 5. By having a plurality of hinge attachment means, the rigidity of the pass door is increased, in particular when the pass door is open. The hinge attachment means may be attached to the primary pass door section and the first main section, which is shown in figures 4 and 11. The hinge attachment means may be attached by means of screws.

[0036] In one aspect, the hinge attachment means (231, 232, 233) comprises a hinge knuckle (241). The hinge knuckle may be arranged on the outside of the sectional door. The pass door may be opened outwards.

[0037] In one aspect, the first cover panel (301, 302, 303) comprises a first flange (311), which first flange (311) is arranged to cover the hinge knuckle (241). Thereby, the cover panel covers the hinge knuckle. Thereby, the hinge knuckle is hidden behind the cover panel and is not visible. The hinge is thereby protected. This improves the safety of the sectional door, since the hinge not is reachable from the outside of the cover panel. The reliability and the life time of the hinge are improved since the hinge is protected from dirt and rain. The interval between services such as lubrication can be prolonged. Also an aesthetically appealing design is achieved. The first flange (311) may be arranged around the hinge knuckle (241). Since the cover panel covers the hinge knuckle, the hinge can have a simple and robust design that concentrates on functionality over appearance. When the hinge knuckle is arranged on the outside of an outwardly opening door, the design of the hinge may be further simplified.

[0038] In one aspect, the hinge knuckle (241) is arranged at a first distance (A) from the first main section edge (121, 122, 123) in direction away from the first main section edge (121, 122, 123), wherein the first distance (A) is at least as large as the width (W1) of the first main door profile (111, 112, 113). Thereby, the hinge knuckle is arranged at the edge of the first main door profile facing the inner of the first main section or further in on the first main section. Further, it is ensured that the cover panel covers the first main door profile when a first flange is covering the hinge knuckle. The hinge knuckle (241) may be arranged at a first distance (A) from the first main

section edge (121, 122, 123) in direction towards the inner of the first main section (101, 102, 103).

[0039] The width of a profile is as used herein the width of the profile on the frontside of the sectional door.

[0040] In one aspect, the hinge knuckle (241) forms a first distal end (241) of the hinge attachment means (231, 232, 233), wherein the hinge attachment means (231, 232, 233) comprises a second distal end (242), wherein the first cover panel (301, 302, 303) comprises a first flange (311) and a second flange (312) and wherein the first flange (311) covers the hinge knuckle (241) and the second flange (312) covers the second distal end (242). Thereby, the distal ends as well as the area between the distal ends are hidden behind the cover panel and are not visible. The hinge is thereby further protected and the safety and reliability of the sectional door is improved. Also an aesthetically appealing design is achieved. The first and the second distal ends are transversal distal ends in relation to the longitudinal direction of the profile at which the attachment means is attached. The first and the second distal ends are separated in the transversal direction in relation to the longitudinal direction of the profile at which the attachment means is attached. The first distal end (241) and the second distal end (242) are transversal distal ends in relation to the longitudinal direction of the first pass door profile (211, 212, 213).

[0041] In one aspect, the second distal end (242) is arranged at a second distance (B) from the first pass door section edge (221, 222, 223) in direction away from the first pass door section edge (221, 222, 223), wherein the second distance (B) is at least as large as the width (W2) of the first pass door profile (211, 212, 213). Thereby, the second distal end is arranged at the edge of the first pass door profile facing the inner of the primary pass door section or further in on the primary pass door section. Further, it is ensured that the cover panel covers the first pass door profile when a second flange of the cover panel is covering the second distal end. The second distal end (242) may be arranged at a second distance (B) from the first pass door section edge (221, 222, 223) in direction towards the inner of the primary pass door section (201, 202, 203).

[0042] When the first distal end (241) is arranged at the first distance (A) from the first main section edge (121, 122, 123), the second distal end (242) is arranged at the second distance (B) from the first pass door section edge (221, 222, 223), the first flange (311) of the cover panel covers the first distal end (241) and the second flange (312) of the cover panel covers the second distal end (242) it is ensured that both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213) are covered by the cover panel.

[0043] In one aspect, the primary pass door section (201, 202, 203) comprises a second cover panel (304, 305, 306) covering both the second main door profile (114, 115, 116) and the second pass door profile (214, 215, 216) when the pass door is closed. By having a second cover panel covering the second main door pro-

file and the second pass door profile, the production, installation and fitting of a sectional door having a pass door is facilitated as described above in relation to the first cover panel. The second cover panel also achieves convenient coverage of profiles and an aesthetically appealing design as also described above in relation to the first cover panel. The second cover panel (304, 305, 306) may be separate, such as a separate part, i.e. a separate part from the second main door profile (114, 115, 116) and the second pass door profile (214, 215, 216). Thereby, the second cover panel is not integrated in any of the profiles.

[0044] In one aspect, the primary pass door section (201, 202, 203) comprises at least one second cover attachment means (234, 235, 236) attached at the second pass door profile (214, 215, 216) and the second cover panel (304, 305, 306) is attached to the second cover attachment means (234, 235, 236). The cover attachment means is a convenient way of attaching the cover panel to the pass door section. The cover attachment means may be attached to the pass door section, which is shown in figures 4, 9 and 11. The cover attachment means may be attached by means of screws. The cover attachment means may be attached to the pass door profile of the pass door section. In particular, the second cover attachment means may be attached to the second pass door profile. The cover panel is attached to the cover attachment means, which is shown in figures 12 and 13. The cover may be screwed to the cover attachment means as shown in figures 12 and 13.

[0045] In one aspect, at least one of the second cover attachment means (234, 235, 236) is a fastening attachment means (234, 235, 236). The fastening attachment means is adapted to attach the cover panel. The fastening attachment means is a cover attachment means without a hinge. The fastening attachment means is thereby in particular useful on the lock side of the pass door. A fastening attachment means is shown in figures 8, 9 and 12. The fastening attachment means may be attached to the pass door section, which is shown in figures 4 and 9. The fastening attachment means may be attached by means of screws. In one aspect, all of the second cover attachment means are a fastening attachment means. Each horizontal primary section may comprise at least two second cover attachment means. Each horizontal primary section may comprise two second cover attachment means. Alternatively, each horizontal primary section may comprise one second cover attachment means. Each second cover attachment means may be a fastening attachment means, which is shown in figures 3 and 4. The horizontal secondary section may comprise one second cover attachment means. When the horizontal secondary attachment means comprises one second cover attachment means, the second cover attachment means may be a fastening attachment means, which is shown in figures 3 and 5. In one aspect, the fastening attachment means has an elongated shape. The fastening attachment means may extend along the majority of

the profile at which the fastening attachment means is attached. Thereby, the majority of the backside of the second cover panel is covered by the fastening attachment means. The fastening attachment means may be attached to the primary pass door section, which is shown in figures 4 and 9. The fastening attachment means may be attached by means of screws.

[0046] In one aspect, the fastening attachment means (234, 235, 236) comprises a primary distal end (243) and a secondary distal end (244), wherein the second cover panel (304, 305, 306) comprises a primary flange (313) and a secondary flange (314) and wherein the primary flange (313) covers the primary distal end (243) and the secondary flange (314) covers the secondary distal end (244). Thereby, the distal ends as well as the area between the distal ends are hidden behind the cover panel and are not visible. Thus, the fastening attachment means is hidden behind the cover panel. Also an aesthetically appealing design is achieved. The first and the second distal ends are transversal distal ends in relation to the longitudinal direction of the profile at which the attachment means is attached. The first and the second distal ends are separated in the transversal direction in relation to the longitudinal direction of the profile at which the attachment means is attached. The primary distal end (243) and the secondary distal end (244) are transversal distal ends in relation to the longitudinal direction of the second pass door profile (214, 215, 216).

[0047] In one aspect, the primary distal end (243) is arranged at a third distance (C) from the second main section edge (124, 125, 126) in direction away from the second main section edge (124, 125, 126), wherein the third distance (C) is at least as large as the width (W3) of the second main door profile (114, 115, 116). Thereby, the primary distal end is arranged at the edge of the second main door profile facing the inner of the second main section or further in on the second main section. Further, it is ensured that the cover panel covers the second main door profile when a primary flange is covering the primary distal end. The primary distal end (243) may be arranged at a third distance (C) from the second main section edge (124, 125, 126) in direction towards the inner of the second main section (104, 105, 106).

[0048] In one aspect, the secondary distal end (244) is arranged at a fourth distance (D) from the second pass door section edge (224, 225, 226) in direction away from the second pass door section edge (224, 225, 226), wherein the fourth distance (D) is at least as large as the width (W4) of the second pass door profile (214, 215, 216). Thereby, the secondary distal end is arranged at the edge of the second pass door profile facing the inner of the primary pass door section or further in on the primary pass door section. Further, it is ensured that the cover panel covers the second pass door profile when a secondary flange of the cover panel is covering the secondary distal end. The secondary distal end (244) may be arranged at a fourth distance (D) from the second pass door section edge (224, 225, 226) in direction to-

wards the inner of the primary pass door section (201, 202, 203).

[0049] When the primary distal end (243) is arranged at the third distance (C) from the second main section edge (124, 125, 126), the secondary distal end (244) is arranged at the fourth distance (D) from the second pass door section edge (224, 225, 226), the primary flange (313) of the cover panel covers the primary distal end (243) and the secondary flange (314) of the cover panel covers the secondary distal end (244) it is ensured that both the second main door profile (114, 115, 116) and the second pass door profile (214, 215, 216) are covered by the cover panel.

[0050] In one aspect, the secondary pass door section (204) comprises a first cover panel (307) covering both the first main door profile (117) and the first pass door profile (217). In one aspect, the secondary pass door section (204) comprises a second cover panel (308) covering both the second main door profile (118) and the second pass door profile (218) when the pass door (2) is closed. In one aspect, the secondary pass door section (204) comprises a top cover panel (309) covering both the top main door profile (119) and the top pass door profile (219) when the pass door (2) is closed. The first cover panel (307), the second cover panel (308) and/or the top cover panel (309) of the secondary pass door section further facilitates the production, installation and fitting of a sectional door having a pass door as described above in relation to the first cover panel of the primary pass door section. The cover panel(s) of the secondary pass door also achieves convenient coverage of profiles and an aesthetically appealing design as also described above in relation to the first cover panel of the primary pass door section. The top cover panel (309) may be separate, such as a separate part, i.e. a separate part from the top main door profile (119) and the top pass door profile (219). Thereby, the top cover panel is not integrated in any of the profiles.

[0051] In the corners, i.e. in the transition between the first cover panel (307) and the top cover panel (309) and between the second cover panel (308) and the top cover panel (309), respectively, the profiles may be covered by corner covers.

[0052] In one aspect, the secondary pass door section (204) comprises at least one first cover attachment means (237) attached at the first pass door profile (217) and the first cover panel (307) is attached to the first cover attachment means (237). In one aspect, the secondary pass door section (204) comprises at least one second cover attachment means (238) attached at the second pass door profile (218) and the second cover panel (308) is attached to the second cover attachment means (238). In one aspect, the secondary pass door section (204) comprises at least one top cover attachment means (239) attached at the top pass door profile (219) and the top cover panel (309) is attached to the top cover attachment means (239). The cover attachment means is a convenient way of attaching the cover panel to the pass door

section. The cover attachment means may be attached to the secondary pass door section, which is shown in figures 5, 9 and 11. The cover attachment means may be attached by means of screws. The cover attachment means may be attached to the pass door profile of the pass door section. In particular, the first cover attachment means (237) of the secondary pass door section (204) may be attached to the first pass door profile (217) of the secondary pass door section (204). In particular, the second cover attachment means (238) of the secondary pass door section (204) may be attached to the second pass door profile (218) of the secondary pass door section (204). In particular, the top cover attachment means (239) may be attached to the top pass door profile (219) of the secondary pass door section (204). The cover panel is attached to the cover attachment means, which is shown in figures 12 and 13. The cover may be screwed to the cover attachment means as shown in figures 12 and 13.

[0053] In one aspect, on the horizontal secondary section (14), at least one of the first cover attachment means (237) is a hinge attachment means as defined above attached to the secondary main section (107) at the first main section edge (127). The hinge attachment means of the horizontal secondary section may be attached to the secondary pass door section and the secondary main section, which is shown in figures 5 and 11. The hinge attachment means may be attached by means of screws.

[0054] In one aspect, the first cover attachment means (237) of the horizontal secondary section (14) is a hinge attachment means. In one aspect, the second cover attachment means (238) of the horizontal secondary section (14) is a fastening attachment means. In one aspect, the top cover attachment means (239) of the horizontal secondary section (14) is a fastening attachment means. This is shown in figure 3.

[0055] In view of the above, all profiles may be covered by a cover panel.

[0056] In one aspect, the sectional door comprises a first main door profile gap between the first main door profile (112) of one horizontal primary section (12) of the horizontal primary sections (11, 12, 13) and the first main door profile (111, 113) of one other horizontal primary section (11, 13) of the horizontal primary sections (11, 12, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12). In one aspect, the sectional door comprises a first pass door profile gap between the first pass door profile (212) of one horizontal primary section (12) of the horizontal primary sections (11, 12, 13) and the first pass door profile (211, 213) of one other horizontal primary section (11, 13) of the horizontal primary sections (11, 12, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12).

[0057] In one aspect, a gap cover (401, 402) is arranged to cover the first main door profile gap. In one aspect, a gap cover (401, 402) is arranged to cover the first pass door profile gap. Preferably, the gap cover (401,

402) covers both the first main door profile gap and the first pass door profile gap. In one aspect, the gap cover (401, 402) comprises a flexible member (411) covering the gap, i.e. the gap that the gap cover covers, such as the first main door profile gap and/or the first pass door profile gap. By having a gap cover covering the gap between the profiles, a safe sectional door is obtained. The flexible member covering the gap between the profiles improves the safety of the sectional door, since the flexible member seals the gap between the profiles and makes it impossible or at least very difficult to pinch fingers between the profiles when the sectional door is folded during opening and most important during closing of the sectional door. The flexibility of the flexible member enables that the flexible member is bent such that it follows the changing curvature of the surface of the sectional door when the horizontal sections pivot during opening and closing of the sectional door. The flexible member enables that the gap cover follows closely over the gap between the profiles. Thereby, a very safe design is obtained. The design is thereby also a small and slim and does not have any parts extending far out from the surface of the sectional door. The gap cover of the present invention is easily manufactured and does not demand any strict tolerances during manufacturing or fitting, since the flexible member adapts and follows closely over the gap between the profiles. As a consequence, the design is also aesthetically appealing.

[0058] In one aspect, the gap cover (401, 402) comprises a first stationary part (412) arranged on the pass door section (202) of said one horizontal primary section (12) and a second stationary part (413) arranged on the pass door section of said one other horizontal primary section (11, 13), wherein the first and second stationary parts (412, 413) hold the flexible member (411). Thereby, the flexible member is held on both horizontal primary sections. Thereby, the covering of the gap between the profiles is improved.

[0059] In one aspect, the first and second stationary parts (412, 413) hold the flexible member (411) close to or against an outer surface of the sectional door (1). By holding the flexible member close to or against the outer surface, the safety is improved since the risk of pinching fingers between the profiles is eliminated or at least reduced. Since the flexible member is hold close to or against the outer surface, it is impossible or at least very difficult to get fingers or any other body parts or objects into the gap between the profiles. The first and second stationary parts (412, 413) may hold the flexible member (411) close to or against an outer surface of the sectional door (1) when the sectional door is folded during opening and closing of the sectional door. The outer surface of the sectional door is the surface facing the outside, i.e. the surface of the sectional seen from the outside of the sectional door (seen in figures 1 and 3). The flexible member may be held against the outer surface of the first main door profiles (111, 112, 113) and/or the first pass door profiles (211, 212, 213) of the sectional door.

[0060] In one aspect, at least one of the first and second stationary parts (412, 413) has a slit (414, 415) into which slit (414, 415) the flexible member (411) is inserted. A slit is a convenient way of holding the flexible member. A slit is in particular a convenient way of holding the flexible member when the flexible member has a substantially flat shape.

[0061] In one aspect, the flexible member (411) is slidable in at least one of said slit(s) (414, 415). Thereby, the flexible member can follow the curvature of the sectional door and the gap between profiles when the sections of the sectional door are pivoted during opening and closing of the sectional door. The flexible member can slide out of the slit when the gap between the profiles increases during opening of the sectional door. The flexible member can slide into the slit when the gap between the profiles decreases during closing of the sectional door. In one aspect, the flexible member (411) is slidable in the slit of one of the first and second stationary parts (412, 413). In one aspect, the flexible member (411) is slidable in the slit of one of the first and second stationary parts (412, 413) and fastened to the other of the first and second stationary parts (412, 413). The flexible member may be fastened to the first stationary part (412) on the pass door section (202) of one horizontal primary section (12) and slidable in relation to the second stationary part (413) on the pass door section (201) of another horizontal primary section (11). The flexible member may be fastened to one stationary part by means of a screw. Fastening of the flexible member to a stationary part by means of a screw is shown in figure 16.

[0062] Each stationary part may be devised as a cover and then the stationary parts may be denoted stationary cover parts.

[0063] In one aspect, the gap cover comprises a stop member preventing the flexible member from slipping out of any of said slit(s). The stop member may be an attachment means such as a screw that fastens the flexible member to one of the first and second stationary parts, such that the length of the flexible member extending out of the slit of said one of the first and second stationary parts is at least as long as the distance to the slit of the other of the first and second stationary parts when the gap between the profiles have its largest size, i.e. when the neighboring sections are maximum pivoted in relation to each other. Alternatively, the stop member may be an abutment surface, e.g. place on the stationary part, such that it blocks the flexible member from entering longer into the slit of one of the first and second stationary parts than a position where the length of the flexible member extending out of the slit of said one of the first and second stationary parts is at least as long as the distance to the slit of the other of the first and second stationary parts when the gap between the profiles have its largest size, i.e. when the neighboring sections are maximum pivoted in relation to each other. As a second alternative, the stop member may be a shoulder on the flexible member, preferable at one end of the flexible member, which shoulder

may abut the rim of the slit such that it blocks the flexible member from sliding out of the slit.

[0064] In one aspect, the flexible member (411) has a substantially flat shape. Thereby, the flexible member conveniently is held close to or against the outer surface of the sectional door, such as the outer surface of the first main door profiles (111, 112, 113) and/or the first pass door profiles (211, 212, 213) of the sectional door. The flat shape of the flexible member also implies that a slim design is obtained, which also is aesthetically appealing.

[0065] In one aspect, the primary pass door section (201, 202, 203) comprises a first cover panel (301, 302, 303) covering the first main door profile (111, 112, 113) and/or the first pass door profile (211, 212, 213), wherein the gap cover (401, 402) covers a first cover panel gap between the first cover panel (302) of said one horizontal primary section (12) and the first cover panel (301, 303) of said one other horizontal primary section (11, 13). Thereby, the gap cover increases the safety of a sectional door having a pass door where the profiles are covered by a cover panel. The gap cover prevents pinching of fingers between the ends of the cover panels of two adjacent horizontal sections. Preferably, the first cover panel (301, 302, 303) covers both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213)

[0066] In one aspect, the first stationary part (412) is connected to the first cover panel (302) of said one horizontal primary section (12) and the second stationary part (413) is connected to the first cover panel (301, 303) of said one other horizontal primary section (11, 13). Thereby, the stationary part connects to the respective cover panel, which eliminates the distance between the stationary part and the cover panel. The safety is increased further. The aesthetics of the sectional door is also increased. The cover panels to which the stationary parts connect may be as described anywhere herein.

[0067] In one aspect, the first stationary part (412) and the second stationary part (413) have a width that is substantially equal to the width of the cover panel. Thereby, a smooth transition between the cover panel and the first and second stationary parts is achieved. In one aspect, the first stationary part (412), the second stationary part (413) and the cover panel have a thickness that is substantially equal to each other. Thereby, a smooth transition between the cover panel and the first and second stationary parts is facilitated. In one aspect, the cover panel has a length that together with the stationary parts corresponds to the length of the pass door profile and thereby also the length of the main door profile. In one aspect, the cover panel has a length that together with the stationary parts corresponds to the height of the pass door section at which the cover panel and the stationary parts are attached.

[0068] In one aspect, on all horizontal primary sections having another adjacent horizontal primary section, the sectional door comprises a first main door profile gap

between the first main door profile (112) of one horizontal primary section (12) and the first main door profile (111, 113) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12), as well as a first pass door profile gap between the first pass door profile (212) of one horizontal primary section (12) and the first pass door profile (211, 213) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12). On all such primary sections, a gap cover (401, 402) may be arranged to cover the first main door profile gap and/or the first pass door profile gap. All such gap covers (401, 402) may be denoted first gap covers (401, 402).

[0069] In one aspect, the sectional door comprises a second main door profile gap between the second main door profile (115) of one horizontal primary section (12) and the second main door profile (114, 116) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12). In one aspect, the sectional door comprises a second pass door profile gap between the second pass door profile (215) of one horizontal primary section (12) and the second pass door profile (214, 216) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12). In one aspect, a second gap cover (403, 404) is arranged to cover the second main door profile gap and/or the second pass door profile gap.

[0070] In one aspect, for all horizontal primary sections having another adjacent horizontal primary section, the sectional door comprises a second main door profile gap between the second main door profile (115) of one horizontal primary section (12) and the second main door profile (114, 116) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12), as well as a second pass door profile gap between the second pass door profile (215) of one horizontal primary section (12) and the second pass door profile (214, 216) of one other horizontal primary section (11, 13), which one other horizontal primary section (11, 13) is adjacent to the one horizontal primary section (12). For all such primary sections, a second gap cover (403, 404) may be arranged to cover the second main door profile gap and/or the second pass door profile gap.

[0071] In one aspect, the sectional door comprises a third main door profile gap between the first main door profile (117) of the horizontal secondary section (14) and the first main door profile (113) of the horizontal primary section (13) adjacent to the horizontal secondary section (14). In one aspect, the sectional door comprises a third pass door profile gap between the first pass door profile (217) of the horizontal secondary section (14) and the first pass door profile (213) of the horizontal primary section (13) adjacent to the horizontal secondary section

(14). In one aspect, a third gap cover (405) is arranged to cover the third main door profile gap and/or the third pass door profile gap.

[0072] In one aspect, the sectional door comprises a fourth main door profile gap between the second main door profile (118) of the horizontal secondary section (14) and the second main door profile (116) of the horizontal primary section (13) adjacent to the horizontal secondary section (14). In one aspect, the sectional door comprises a fourth pass door profile gap between the second pass door profile (218) of the horizontal secondary section (14) and the second pass door profile (216) of the horizontal primary section (13) adjacent to the horizontal secondary section (14). In one aspect, a fourth gap cover (406) is arranged to cover the fourth main door profile gap and/or the fourth pass door profile gap.

[0073] Thus, all gaps between profiles may be covered by a gap cover. Each gap cover may be devised as the first gap cover (401, 402) described above.

[0074] The present invention also relates to a pass door profile assembly for a sectional door (1) with a pass door (2), comprising a main door profile (111, 112, 113, 114, 115, 116, 117, 118, 119) for arrangement at an edge (121, 122, 123, 124, 125, 126, 127, 128, 129) of a main section (101, 102, 103, 104, 105, 106, 107) of the sectional door (1) facing the pass door (2), a pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219) for arrangement at an edge (221, 222, 223, 224, 225, 226, 227, 228, 229) of a pass door section (201, 202, 203, 204) adjacent to said main section (101, 102, 103, 104, 105, 106, 107) facing said main section (101, 102, 103, 104, 105, 106, 107), and a cover panel (301, 302, 303, 304, 305, 306, 307, 308, 309) covering both said main door profile (111, 112, 113, 114, 115, 116, 117, 118, 119) and said pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219). The pass door profile assembly facilitates the production, installation and fitting of a sectional door having a pass door as described above in relation to the first cover panel of the primary pass door section. The pass door profile assembly also achieves convenient coverage of profiles and an aesthetically appealing design as also described above in relation to the first cover panel of the primary pass door section.

[0075] The parts of the pass door profile assembly may have the features and may comprise the parts that are described herein. The pass door profile assembly may also comprise additional parts and features described herein.

[0076] For example, in one aspect of the pass door profile assembly, the pass door profile assembly comprises at least one cover attachment means (231, 232, 233, 234, 235, 236, 237, 238, 239) attachable at the pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219), wherein the cover panel (301, 302, 303, 304, 305, 306, 307, 308, 309) is attachable to the cover attachment means (231, 232, 233, 234, 235, 236, 237, 238, 239).

[0077] For instance, in one aspect of the pass door profile assembly, at least one of the cover attachment

means (231, 232, 233, 234, 235, 236, 237, 238, 239) is a hinge attachment means (231, 232, 233, 237) comprising a hinge for attachment to the main section (101, 102, 103, 107) for opening and closing of the pass door (2).

[0078] The present invention also relates to a gap cover (401, 402, 403, 404, 405, 406) for a sectional door (1) with a pass door (2), comprising a first stationary part (412), a second stationary part (413) and a flexible member (411) held by the first and second stationary parts (412, 413).

[0079] The gap cover achieves a safe sectional door, facilitates the manufacturing of a sectional door with a pass door and achieves an aesthetically appealing design as described above in relation to the gap cover of the sectional door.

[0080] The gap cover may have the features and may comprise the parts that are described herein. In particular, the gap cover (401, 402, 403, 404, 405, 406) is a gap cover (401, 402) as defined anywhere above.

[0081] The above aspects and variants may be combined with each other as well as with details specified below in any combination comprising two, more or all of the aspects, variants and details specified herein.

[0082] A version of a sectional door (1) comprising a pass door (2) according to the invention will be described with reference to the figures 1-18.

[0083] The sectional door (1) comprises a pass door (2). The sectional door comprises three horizontal primary sections (11, 12, 13) and a horizontal secondary section (14).

[0084] Each horizontal primary section (11, 12, 13) comprises a primary pass door section (201, 202, 203) and a first main section (101, 102, 103) arranged at a first side of the primary pass door section (201, 202, 203) and a second main section (104, 105, 106) arranged at a second side of the primary pass door section (201, 202, 203).

[0085] The first main section (101, 102, 103) comprises a first main door profile (111, 112, 113) at a first main section edge (121, 122, 123) facing the primary pass door section (201, 202, 203). The primary pass door section (201, 202, 203) comprises a first pass door profile (211, 212, 213) at a first pass door section edge (221, 222, 223) facing the first main section (101, 102, 103).

[0086] The second main section (104, 105, 106) comprises a second main door profile (114, 115, 116) at a second main section edge (124, 125, 126) facing the primary pass door section (201, 202, 203). The primary pass door section (201, 202, 203) comprises a second pass door profile (214, 215, 216) at a second pass door section edge (224, 225, 226) facing the second main section (104, 105, 106).

[0087] The horizontal secondary section (14) comprises a secondary main section (107) and a secondary pass door section (204), wherein the secondary main section (107) comprises a cutout for the secondary pass door section (204).

[0088] The secondary main section (107) comprises a

first main door profile (117) at a first main section edge (127) facing the secondary pass door section (204), a second main door profile (118) at a second main section edge (128) facing the secondary pass door section (204) and a top main door profile (119) at a top main section edge (129) facing the secondary pass door section (204). The secondary pass door section (204) comprises a first pass door profile (217) at a first pass door section edge (227) facing the first main section edge (127) of the secondary main section (107), a second pass door profile (218) at a second pass door section edge (228) facing the second main section edge (128) of the secondary main section (107) and a top pass door profile (219) at a top pass door section edge (229) facing the top main section edge (129).

[0089] At each first pass door profile (211, 212, 213) of the three horizontal primary sections (11, 12, 13) are two hinge attachment means (231, 232, 233) attached. At the first pass door profile (217) of the horizontal secondary section (14) is one hinge attachment means (237) attached. At each second pass door profile (214, 215, 216) of the three horizontal primary sections (11, 12, 13) is one fastening attachment means (234, 235, 236) attached. At the second pass door profile (218) of the horizontal secondary section (14) is one fastening attachment means (238) attached. At the top pass door profile (219) is one fastening attachment means (239) attached.

[0090] To the two hinge attachment means (231, 232, 233) of each horizontal primary section (11, 12, 13) is a first cover panel (301, 302, 303) attached. To the hinge attachment means (237) of the horizontal secondary section (14) is a first cover panel (307) attached. To the fastening attachment means (234, 235, 236) of each horizontal primary section (11, 12, 13) as well as of the horizontal secondary section (14) is a second cover panel (304, 305, 306, 308) attached. To the top attachment means (239) is a top cover panel (309) attached.

[0091] Each cover panel (301, 302, 303, 304, 305, 306, 307, 308, 309) covers both the pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219) at which the cover panel is attached and the parallel adjacent main door profile (111, 112, 113, 114, 115, 116, 117, 118, 119) when the pass door (2) is closed.

[0092] At each end of the cover panels (301, 302, 303, 304, 305, 306, 307, 308) facing another cover panel is a stationary part (412, 413) connected. Each stationary part has a slit (414, 415) in which a flexible member (411) is slidable. Between the stationary parts (412, 413) of two adjacent cover panels is the flexible member (411) slidably arranged. The stationary parts (412, 413) of two adjacent ends of a cover panel and the flexible member (411) form a gap cover (401, 402, 403, 404, 405, 406). The flexible member (411) covers the gap between the profiles as well as the gap between the panels of two adjacent horizontal sections as shown in figure 15.

[0093] The foregoing has described the principles, preferred embodiments, aspects and modes of operation of the present invention. However, the description should

be regarded as illustrative rather than restrictive, and the invention should not be limited to the particular embodiments and aspects discussed above. As mentioned above, the different features of the various embodiments and aspects of the invention can be combined in other combinations than those explicitly described. It should therefore be appreciated that variations may be made in those embodiments and aspects by those skilled in the art without departing from the scope of the present invention as defined by the following claims.

Claims

1. Sectional door (1) comprising a pass door (2), wherein the sectional door (1) comprises a plurality of horizontal sections (11, 12, 13, 14), wherein at least one of the horizontal sections (11, 12, 13, 14) is a horizontal primary section (11, 12, 13), wherein each horizontal primary section (11, 12, 13) comprises a primary pass door section (201, 202, 203) and a first main section (101, 102, 103) arranged at a first side of the primary pass door section (201, 202, 203) and a second main section (104, 105, 106) arranged at a second side of the primary pass door section (201, 202, 203), wherein the first main section (101, 102, 103) comprises a first main section edge (121, 122, 123) facing the primary pass door section (201, 202, 203), and the primary pass door section (201, 202, 203) comprises a first pass door section edge (221, 222, 223) facing the first main section (101, 102, 103), wherein the first main section (101, 102, 103) comprises a first main door profile (111, 112, 113) at the first main section edge (121, 122, 123), and the primary pass door section (201, 202, 203) comprises a first pass door profile (211, 212, 213) at the first pass door section edge (221, 222, 223), wherein the primary pass door section (201, 202, 203) comprises a first cover panel (301, 302, 303) covering both the first main door profile (111, 112, 113) and the first pass door profile (211, 212, 213).
2. Sectional door according to claim 1, wherein the primary pass door section (201, 202, 203) comprises at least one first cover attachment means (231, 232, 233) attached at the first pass door profile (211, 212, 213) and the first cover panel (301, 302, 303) is attached to the first cover attachment means (231, 232, 233).
3. Sectional door according to claim 2, wherein, on at least one of the horizontal primary sections (11, 12, 13), at least one of the first cover attachment means (231, 232, 233) is a hinge attachment means (231, 232, 233) comprising a hinge attached to the first main section (101, 102, 103) for opening and closing of the pass door (2).
4. Sectional door according to claim 3, wherein the hinge attachment means (231, 232, 233) comprises a hinge knuckle (241).
5. Sectional door according to claim 4, wherein the first cover panel (301, 302, 303) comprises a first flange (311), which first flange (311) is arranged to cover the hinge knuckle (241).
6. Sectional door according to claim 4 or 5, wherein the hinge knuckle (241) is arranged at a first distance (A) from the first main section edge (121, 122, 123) in direction away from the first main section edge (121, 122, 123), wherein the first distance (A) is at least as large as the width (W1) of the first main door profile (111, 112, 113).
7. Sectional door according to claim 4 or 5, wherein the hinge knuckle (241) forms a first distal end (241) of the hinge attachment means (231, 232, 233), wherein the hinge attachment means (231, 232, 233) comprises a second distal end (242), wherein the first cover panel (301, 302, 303) comprises a first flange (311) and a second flange (312) and wherein the first flange (311) covers the hinge knuckle (241) and the second flange (312) covers the second distal end (242).
8. Sectional door according to claim 7, wherein the second distal end (242) is arranged at a second distance (B) from the first pass door section edge (221, 222, 223) in direction away from the first pass door section edge (221, 222, 223), wherein the second distance (B) is at least as large as the width (W2) of the first pass door profile (211, 212, 213).
9. Sectional door according to any one of the preceding claims, wherein the second main section (104, 105, 106) comprises a second main section edge (124, 125, 126) facing the primary pass door section (201, 202, 203), and the primary pass door section (201, 202, 203) comprises a second pass door section edge (224, 225, 226) facing the second main section (104, 105, 106), wherein the second main section (104, 105, 106) comprises a second main door profile (114, 115, 116) at the second main section edge (124, 125, 126), and the primary pass door section (201, 202, 203) comprises a second pass door profile (214, 215, 216) at the second pass door section edge (224, 225, 226), wherein the primary pass door section (201, 202, 203) comprises a second cover panel (304, 305, 306) covering both the second main door profile (114, 115, 116) and the second pass door profile (214, 215, 216) when the pass door is closed.
10. Sectional door according to claim 9, wherein the pri-

mary pass door section (201, 202, 203) comprises at least one second cover attachment means (234, 235, 236) attached at the second pass door profile (214, 215, 216) and the second cover panel (304, 305, 306) is attached to the second cover attachment means (234, 235, 236).

11. Sectional door according to claim 10, wherein at least one of the second cover attachment means (234, 235, 236) is a fastening attachment means (234, 235, 236).

12. Sectional door according to claim 11, wherein the fastening attachment means (234, 235, 236) comprises a primary distal end (243) and a secondary distal end (244), wherein the second cover panel (304, 305, 306) comprises a primary flange (313) and a secondary flange (314) and wherein the primary flange (313) covers the primary distal end (243) and the secondary flange (314) covers the secondary distal end (244).

13. Sectional door according to any one of the preceding claims, wherein one of the horizontal sections (11, 12, 13, 14) is a horizontal secondary section (14), wherein the horizontal secondary section (14) comprises a secondary main section (107) and a secondary pass door section (204), wherein the secondary main section (107) comprises a cutout for the secondary pass door section (204), wherein the secondary main section (107) comprises a first main section edge (127) facing the secondary pass door section (204), a second main section edge (128) facing the secondary pass door section (204) and a top main section edge (129) facing the secondary pass door section (204), and the secondary pass door section (204) comprises a first pass door section edge (227) facing the first main section edge (127) of the secondary main section (107), a second pass door section edge (228) facing the second main section edge (128) of the secondary main section (107) and a top pass door section edge (229) facing the top main section edge (129) of the secondary main section (107), wherein the secondary main section (107) comprises a first main door profile (117) at the first main section edge (127), a second main door profile (118) at the second main section edge (128) and a top main door profile (119) at the top main section edge (129), and the secondary pass door section (204) comprises a first pass door profile (217) at the first pass door section edge (227), a second pass door profile (218) at the second pass door section edge (228) and a top pass door profile (219) at the top pass door section edge (229), wherein the secondary pass door section (204) comprises a first cover panel (307) covering both the first main door profile (117) and the first pass door profile

(217), a second cover panel (308) covering both the second main door profile (118) and the second pass door profile (218) and a top cover panel (309) covering both the top main door profile (119) and the top pass door profile (219) when the pass door (2) is closed.

14. Sectional door according to claim 13, wherein the secondary pass door section (204) comprises at least one first cover attachment means (237) attached at the first pass door profile (217) and the first cover panel (307) is attached to the first cover attachment means (237), wherein the secondary pass door section (204) comprises at least one second cover attachment means (238) attached at the second pass door profile (218) and the second cover panel (308) is attached to the second cover attachment means (238), and wherein the secondary pass door section (204) comprises at least one top cover attachment means (239) attached at the top pass door profile (219) and the top cover panel (309) is attached to the top cover attachment means (239).

15. Sectional door according to claim 14, wherein, on the horizontal secondary section (14), at least one of the first cover attachment means (237) is a hinge attachment means as defined in any of the claims 3-8 attached to the secondary main section (107) at the first main section edge (127).

16. Pass door profile assembly for a sectional door (1) with a pass door (2), comprising a main door profile (111, 112, 113, 114, 115, 116, 117, 118, 119) for arrangement at an edge (121, 122, 123, 124, 125, 126, 127, 128, 129) of a main section (101, 102, 103, 104, 105, 106, 107) of the sectional door (1) facing the pass door (2), a pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219) for arrangement at an edge (221, 222, 223, 224, 225, 226, 227, 228, 229) of a pass door section (201, 202, 203, 204) adjacent to said main section (101, 102, 103, 104, 105, 106, 107) facing said main section (101, 102, 103, 104, 105, 106, 107), and a cover panel (301, 302, 303, 304, 305, 306, 307, 308, 309) covering both said main door profile (111, 112, 113, 114, 115, 116, 117, 118, 119) and said pass door profile (211, 212, 213, 214, 215, 216, 217, 218, 219).

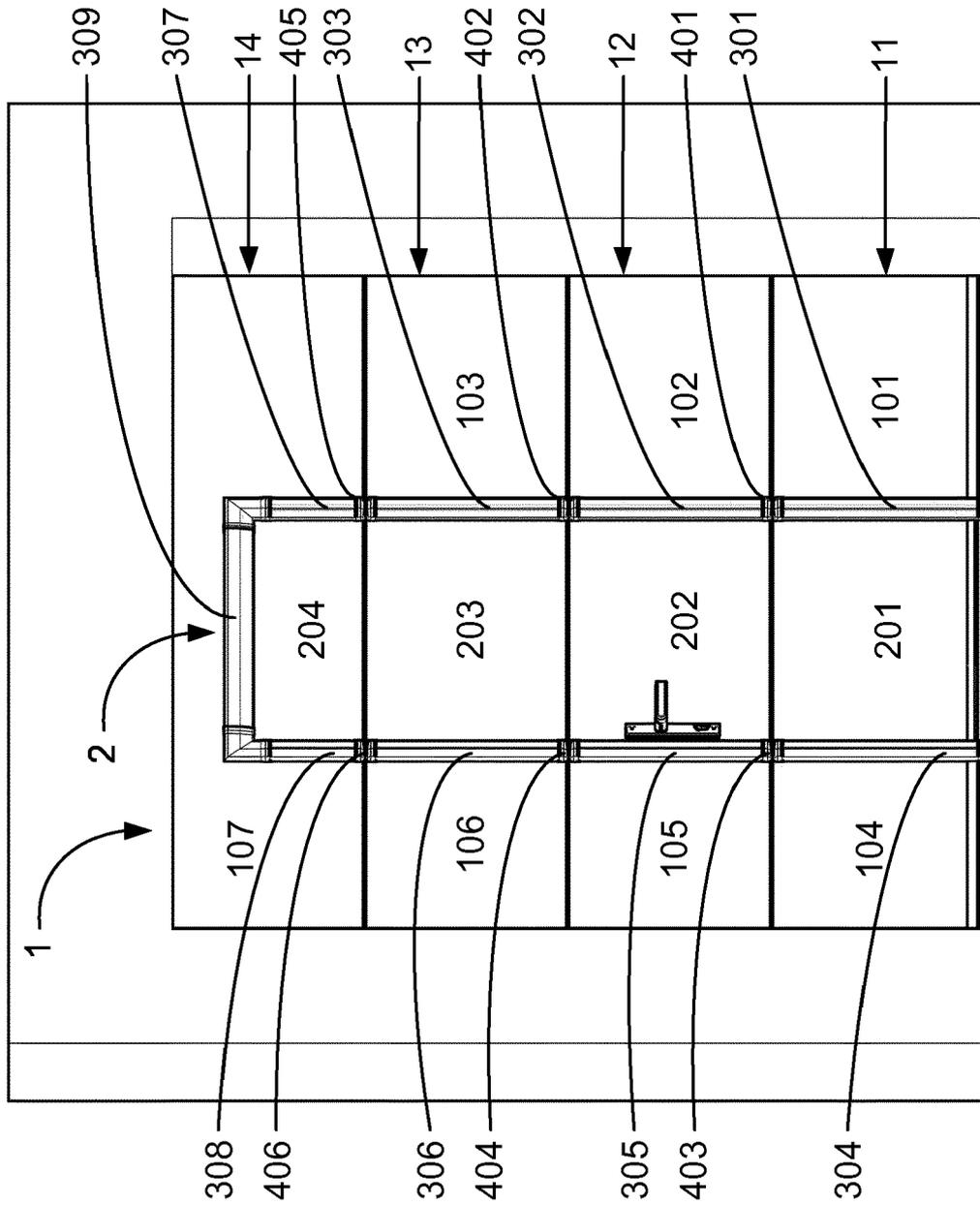


Fig. 1

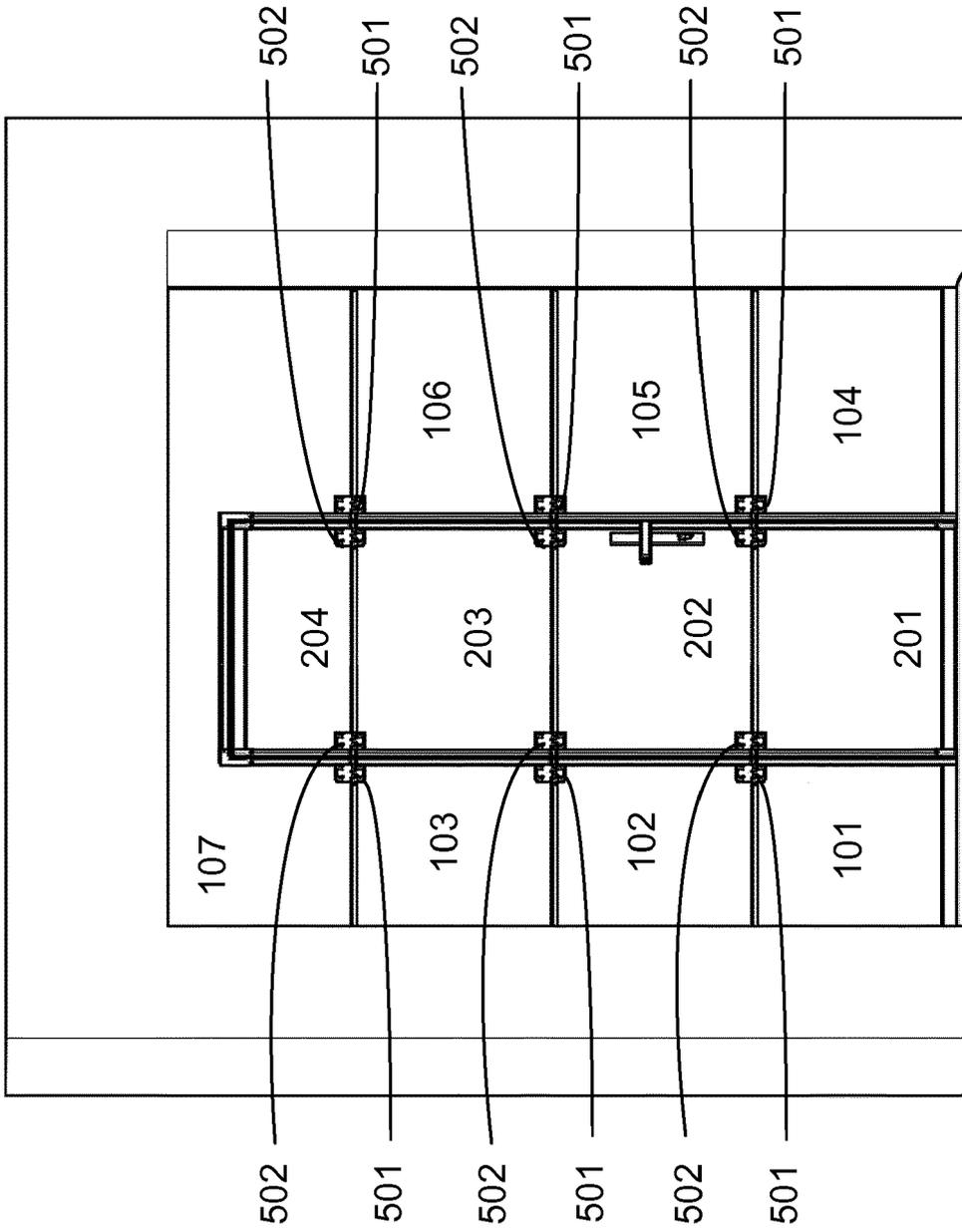


Fig. 2

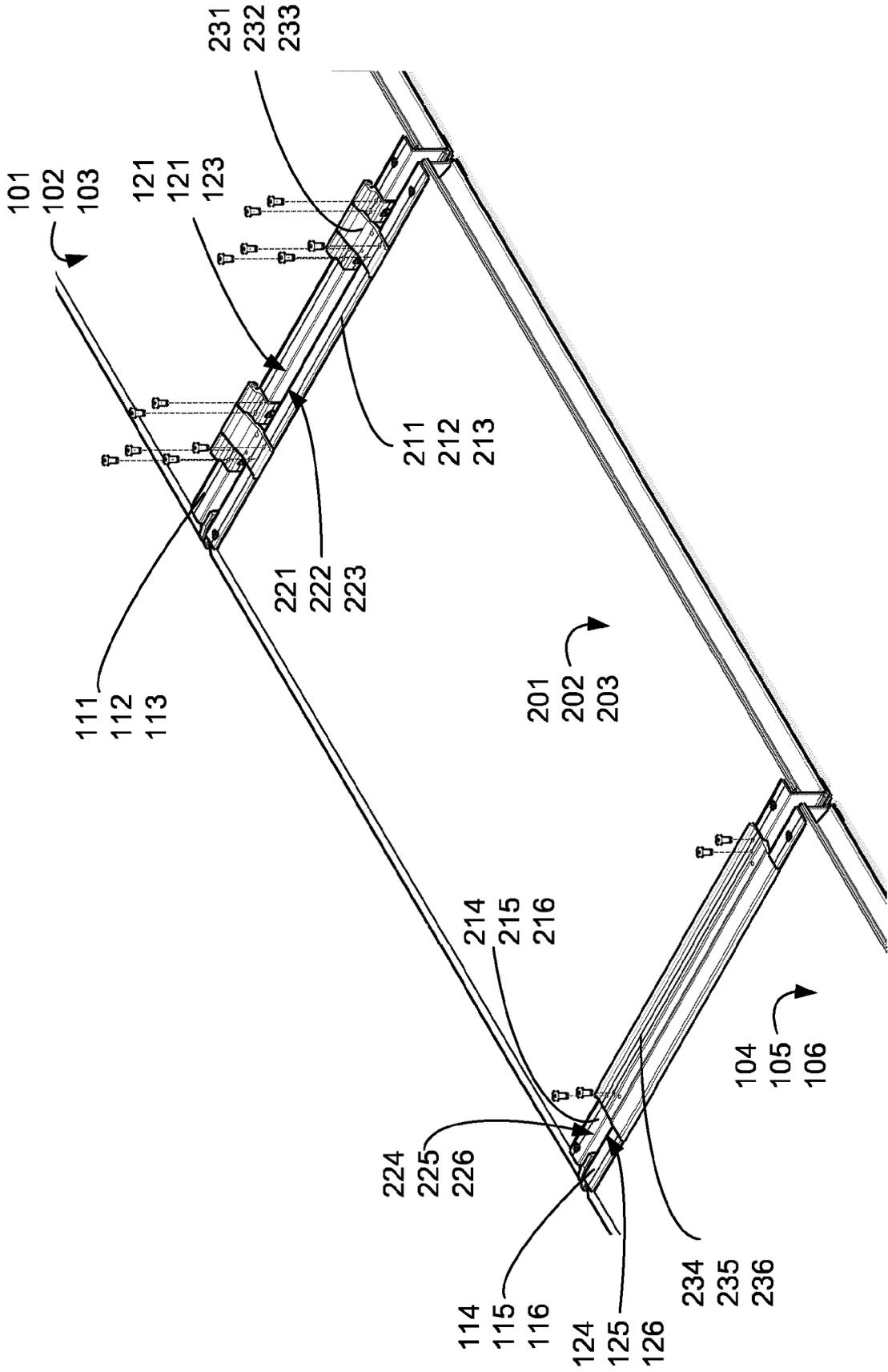


Fig. 4

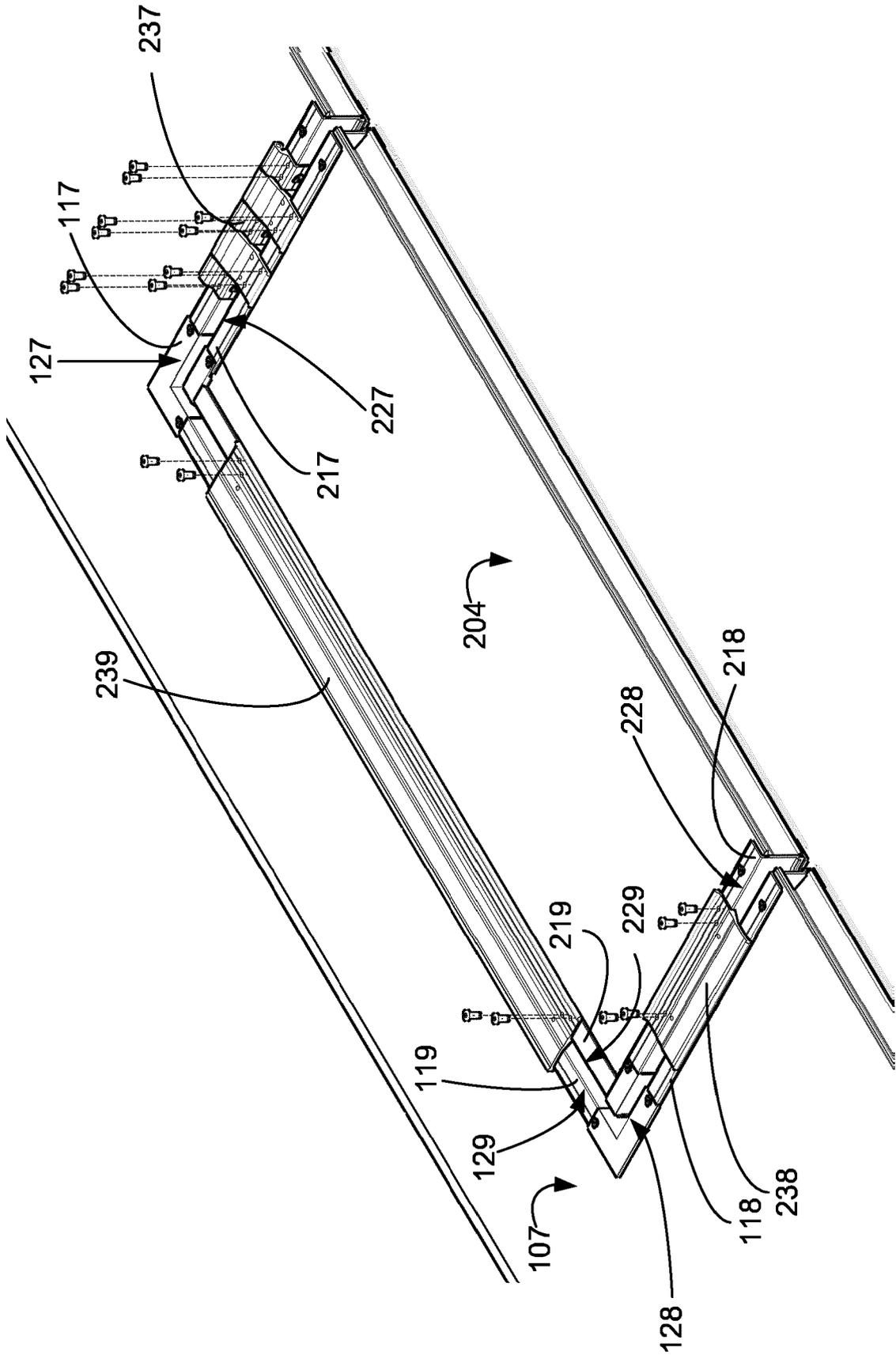


Fig. 5

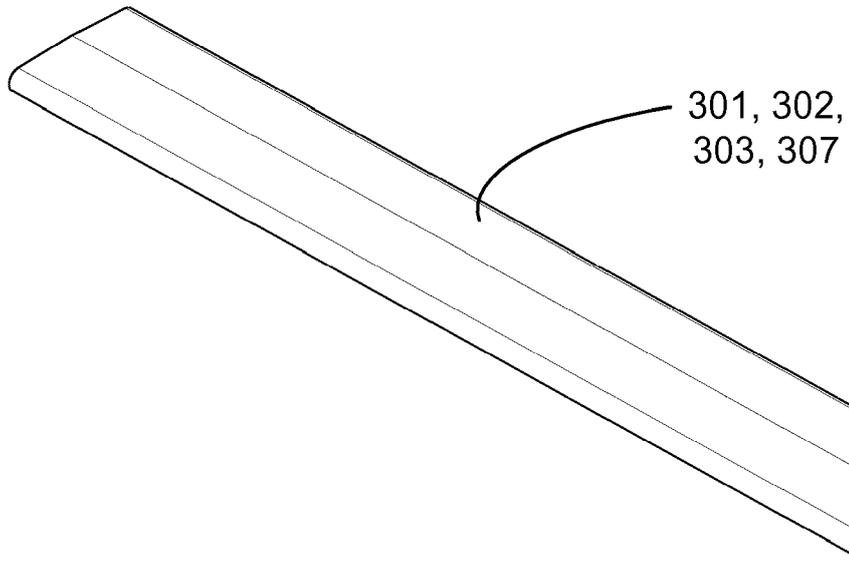


Fig. 6

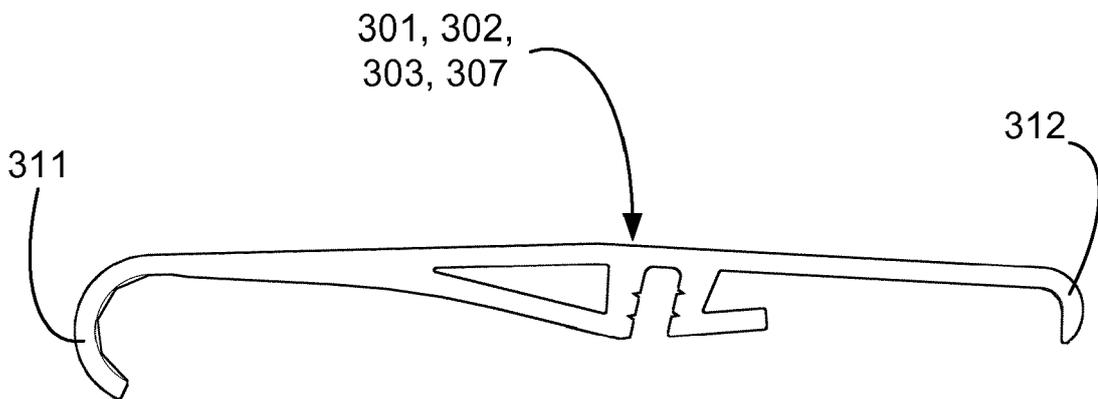


Fig. 7

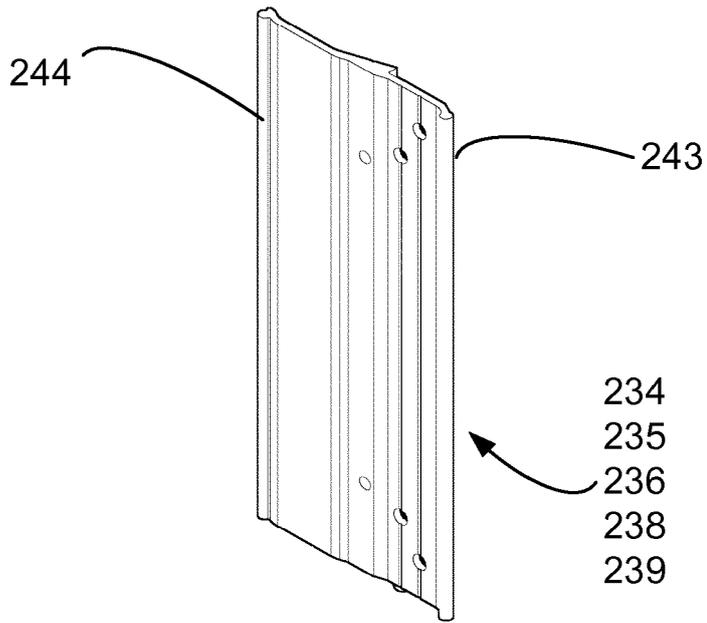


Fig. 8

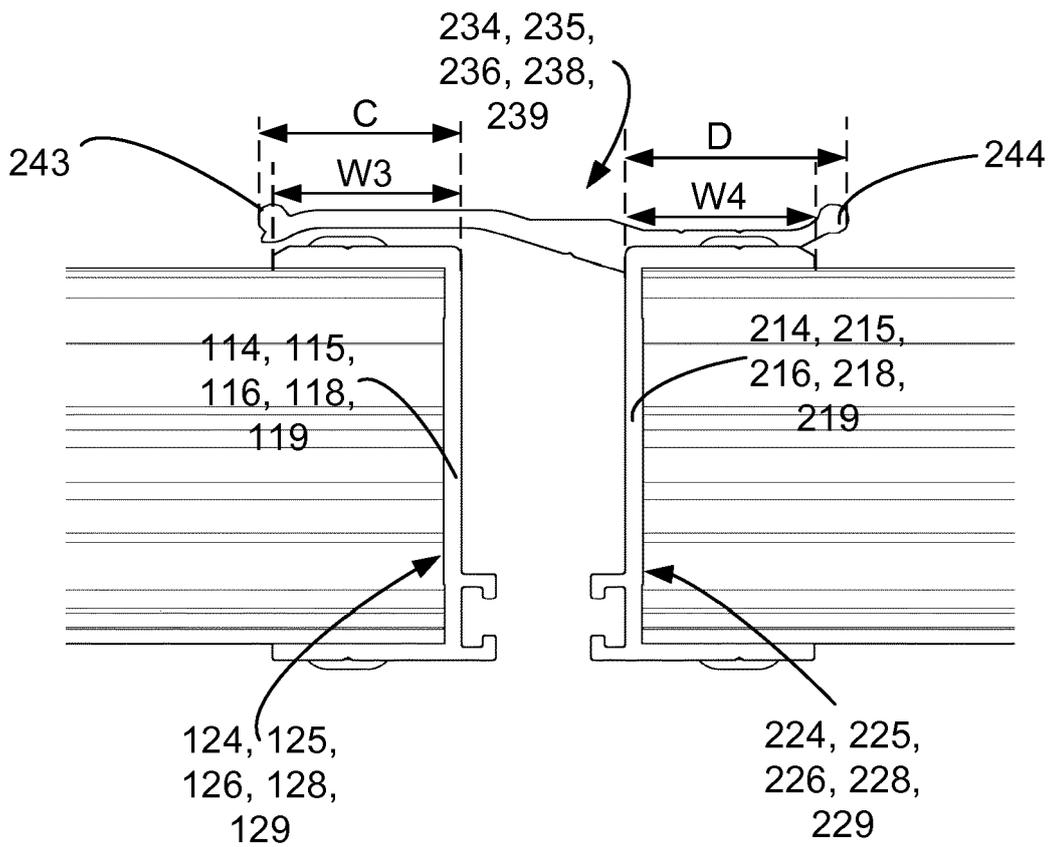


Fig. 9

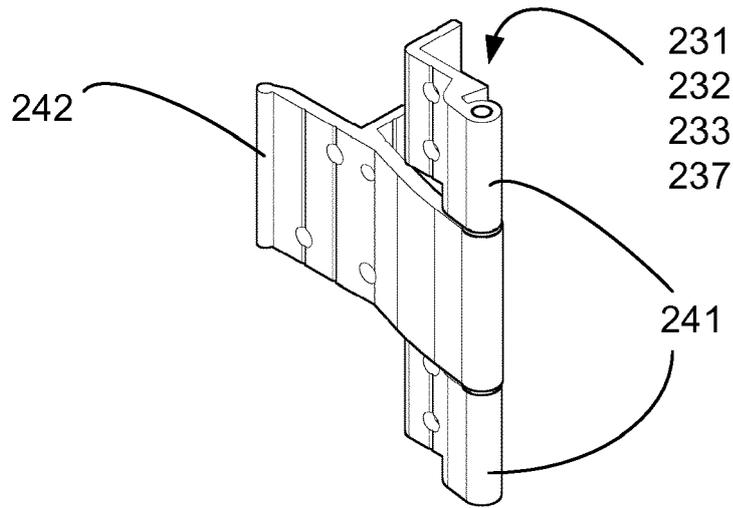


Fig. 10

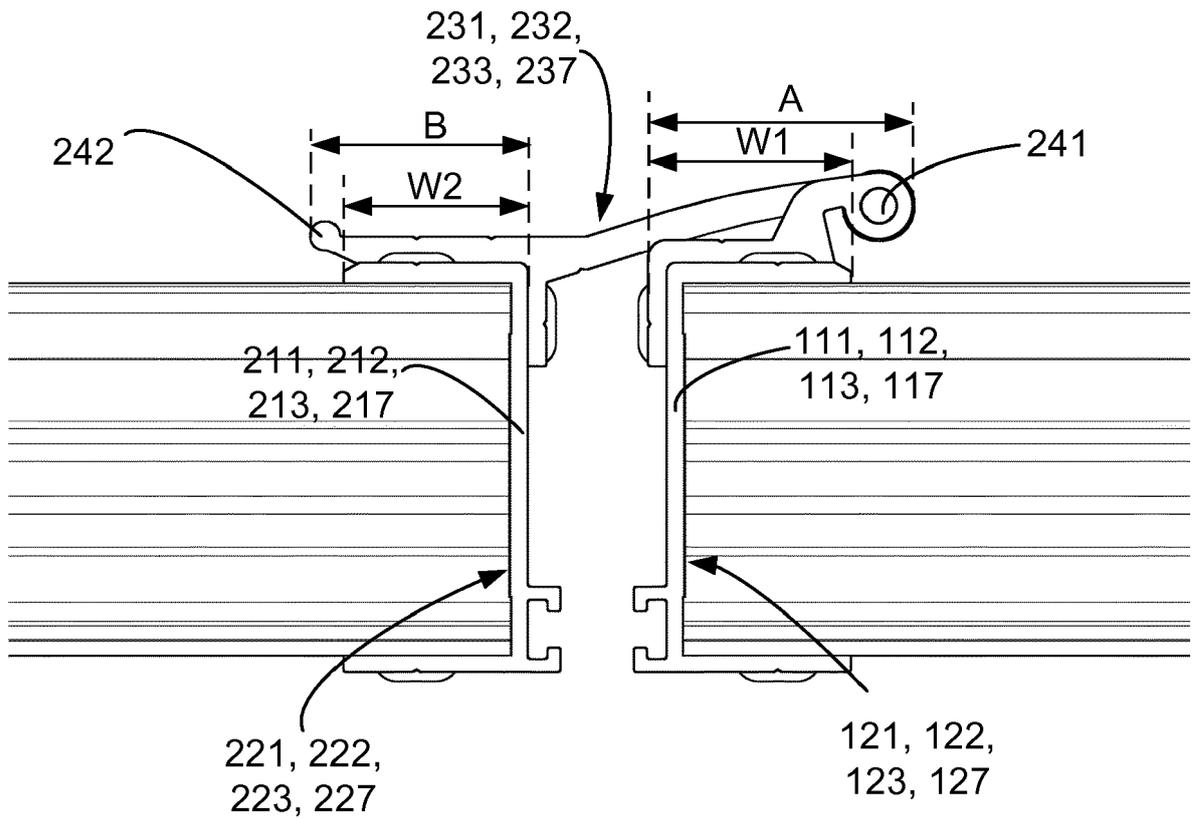


Fig. 11

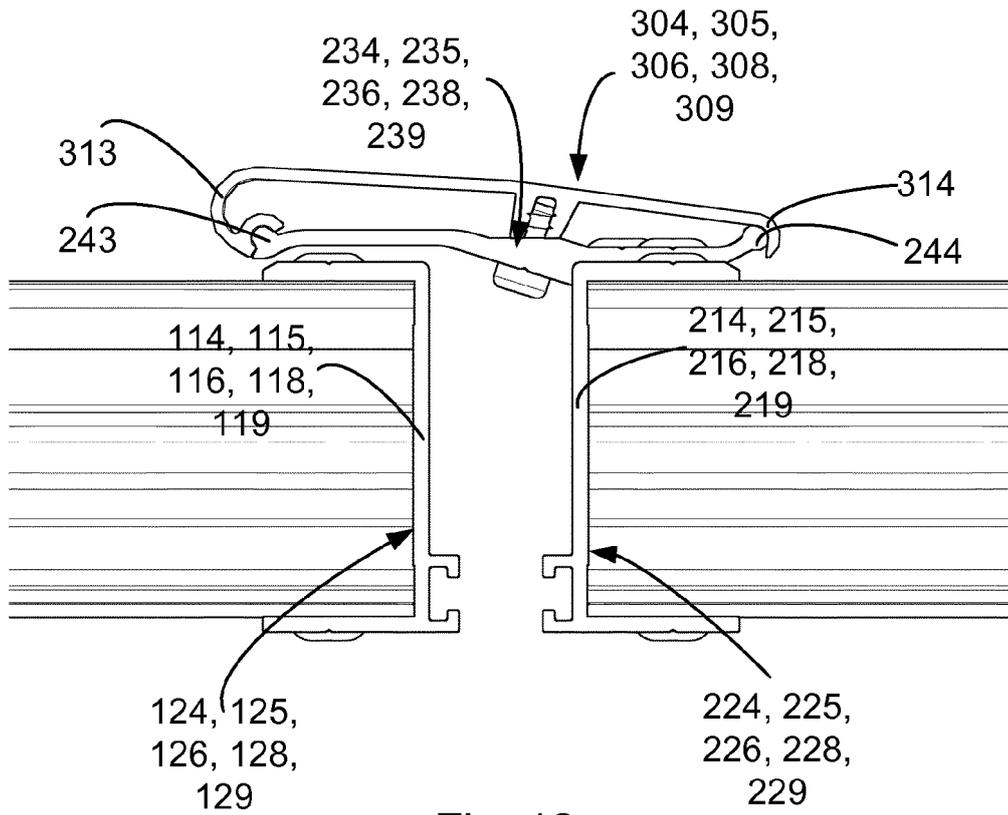


Fig. 12

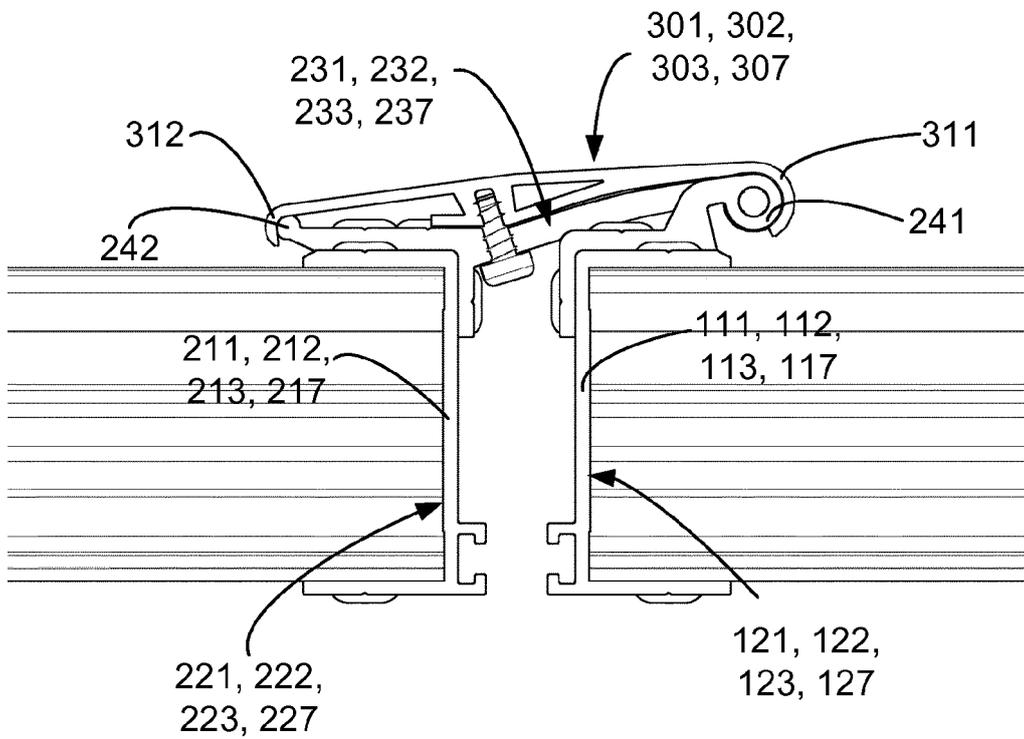


Fig. 13

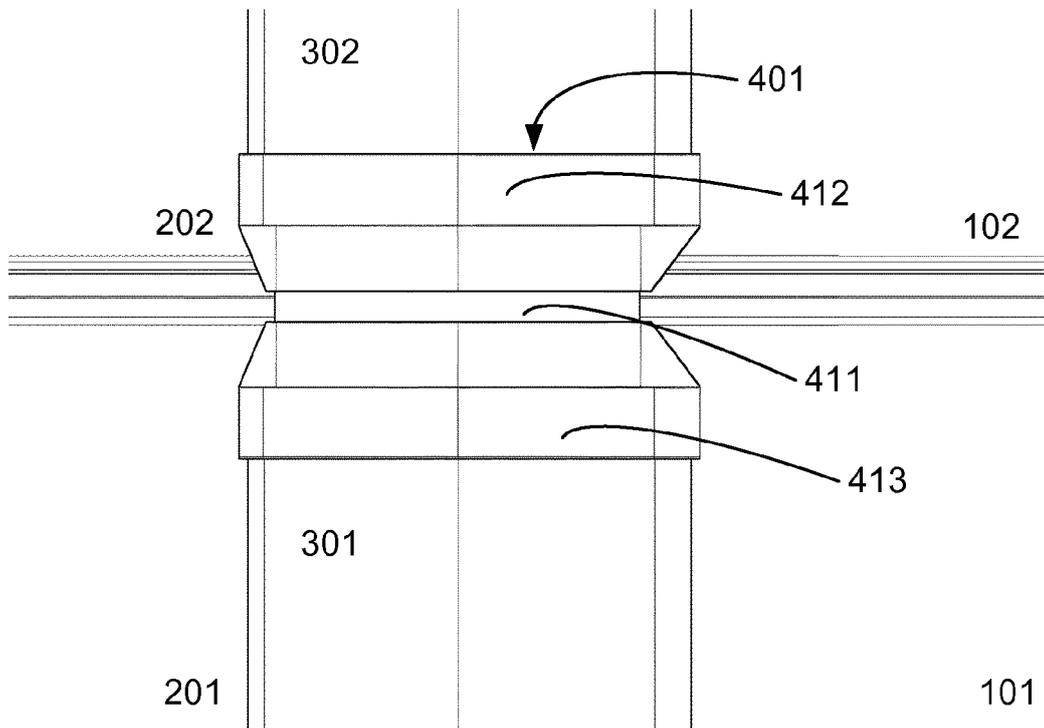


Fig. 14

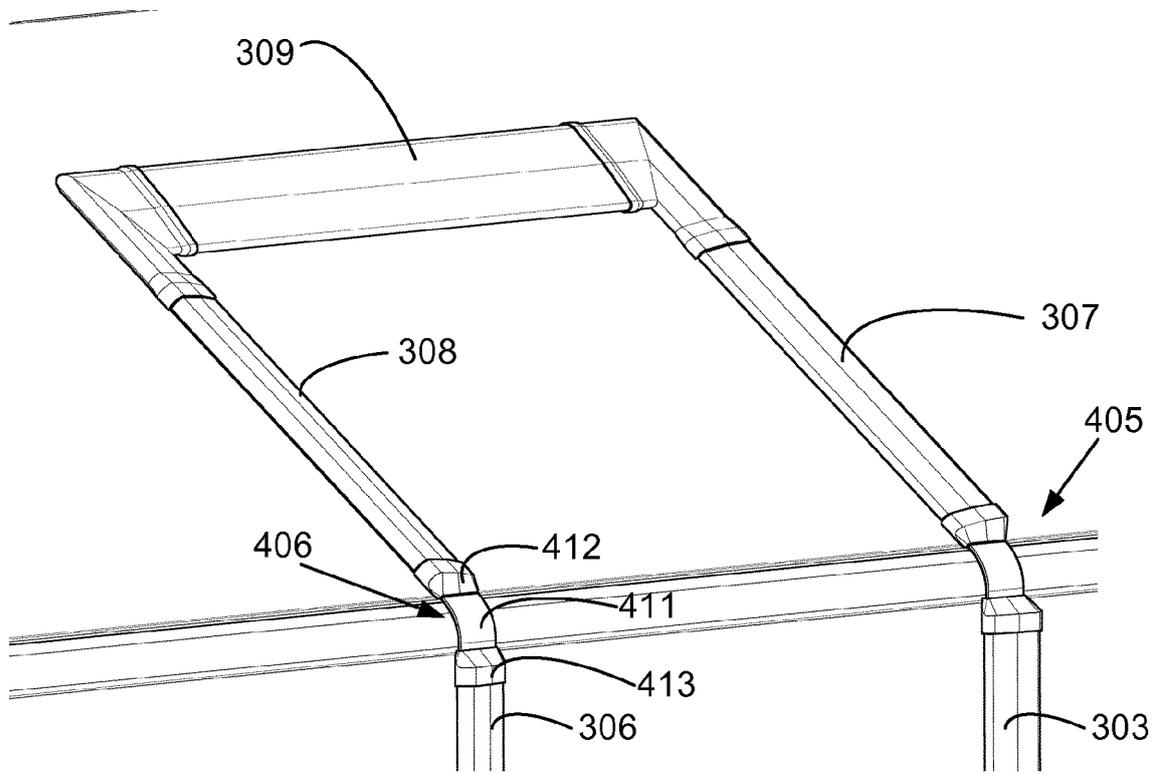


Fig. 15

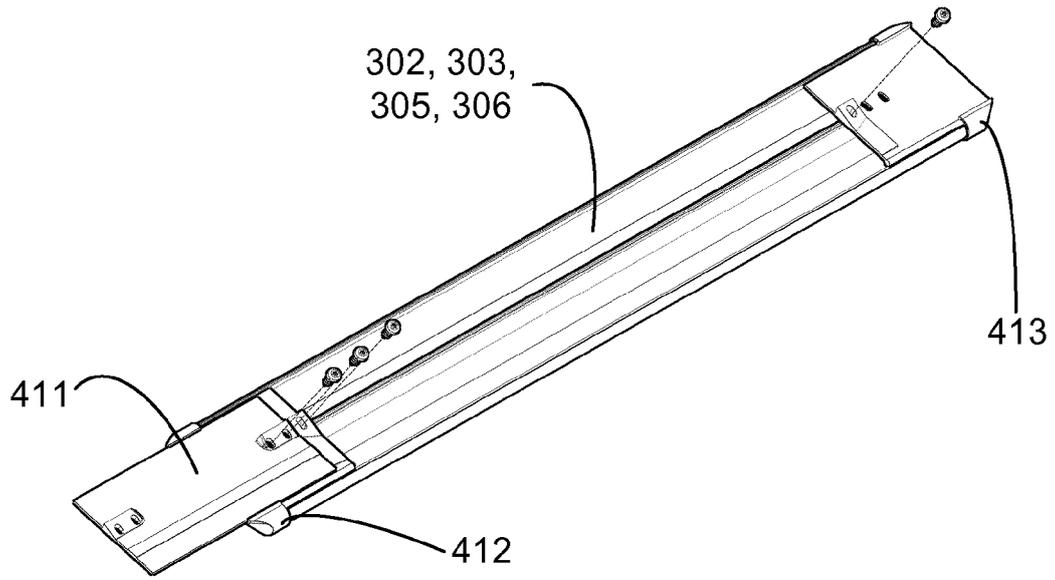


Fig. 16

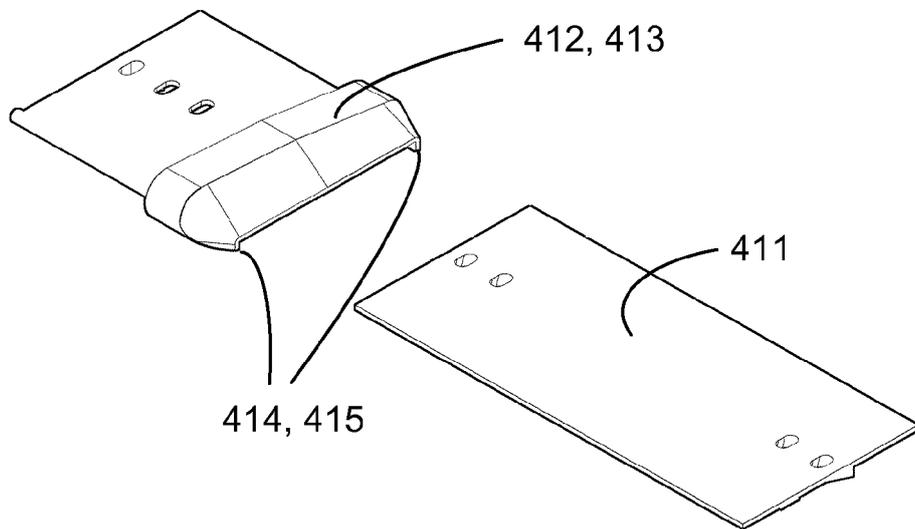


Fig. 17

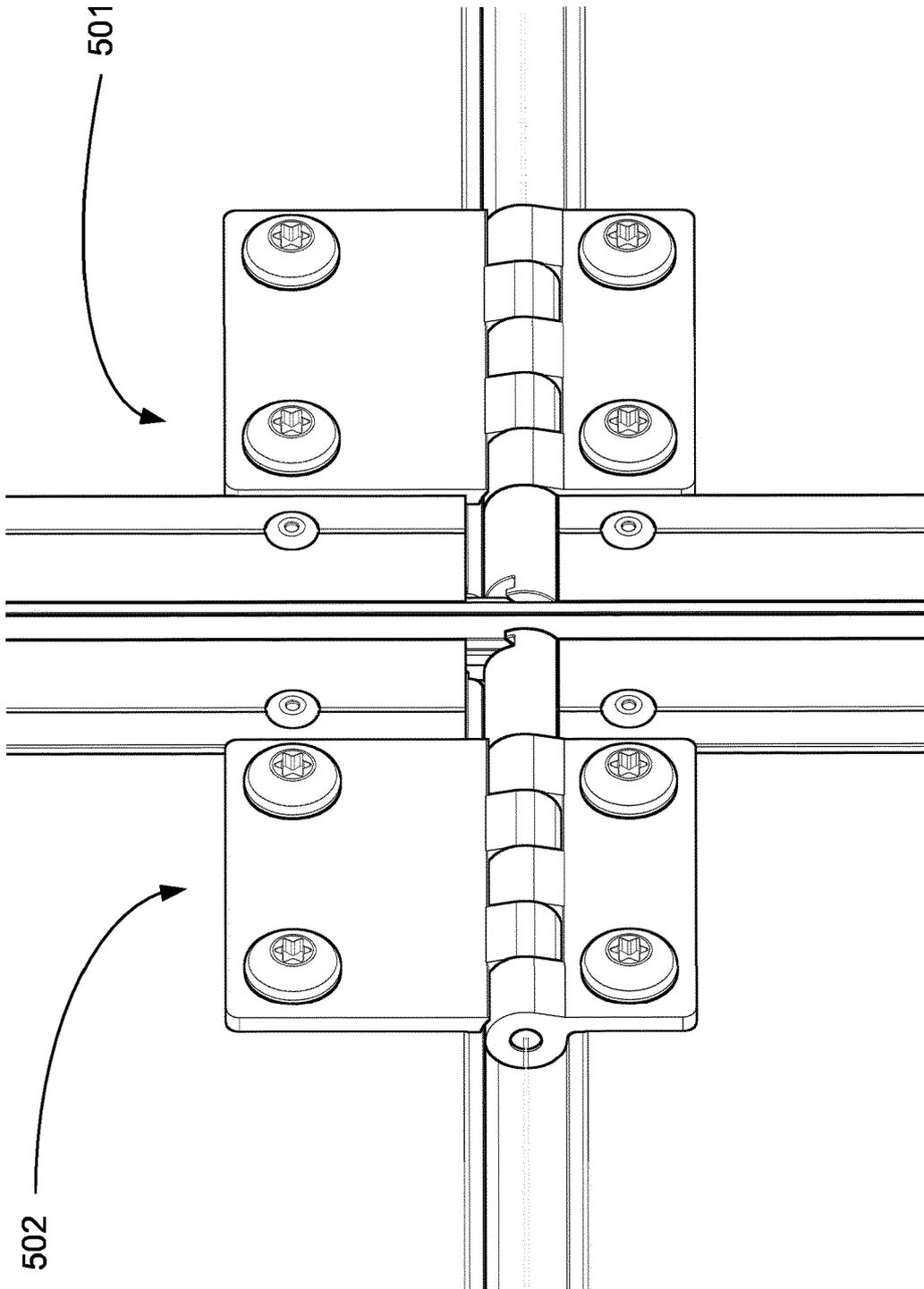


Fig. 18



EUROPEAN SEARCH REPORT

Application Number
EP 16 15 3782

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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)
A,D	FR 2 967 446 A1 (SOPROFEN [FR]) 18 May 2012 (2012-05-18) * figure 3 *	1	INV. E06B3/48
A	DE 20 2006 001779 U1 (TEKLA-TECHNIK TOR & TUER GMBH & CO. KG [DE]) 6 April 2006 (2006-04-06) * figure 1 *	1	
			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 May 2016	Examiner Verdonck, Benoit
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 16 15 3782

5 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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30-05-2016

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FR 2967446 A1	18-05-2012	NONE	

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