(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 3 868 254 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
25.08.2021 Bulletin 2021/34

(51) Int Cl.:
A47B 88/40 *(2017.01)* ***A47B 88/90*** *(2017.01)*

(21) Application number: **21157759.8**

(22) Date of filing: **18.02.2021**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

(30) Priority: **21.02.2020 IT 202000003605**

(71) Applicant: **Essetre S.P.A.**
61043 Cagli (PU) (IT)

(72) Inventor: **MENSA', Stefano**
61043 Cagli (PU) (IT)

(74) Representative: **Baldi, Claudio**
Ing. Claudio Baldi S.r.l.
Viale Cavallotti, 13
60035 Jesi (Ancona) (IT)

(54) **MODULAR DRAWER FOR FURNITURE, PREFERABLY CUSTOM-MADE FURNITURE**

(57) A modular drawer (100, 200) for furniture (M) comprising a pair of sides (S1, S2), a back side (P1, P2) and a base (B); the peculiarity of the modular drawer (100, 200) consists in the fact that the back side (P1, P2) comprises two lateral sections (1, 2, 3, 4), each one of them being connected to a side (S1, S2); the lateral sections (1, 2) are slidingly mounted in such a way to adjust the distance between the two sides (S1, S2).

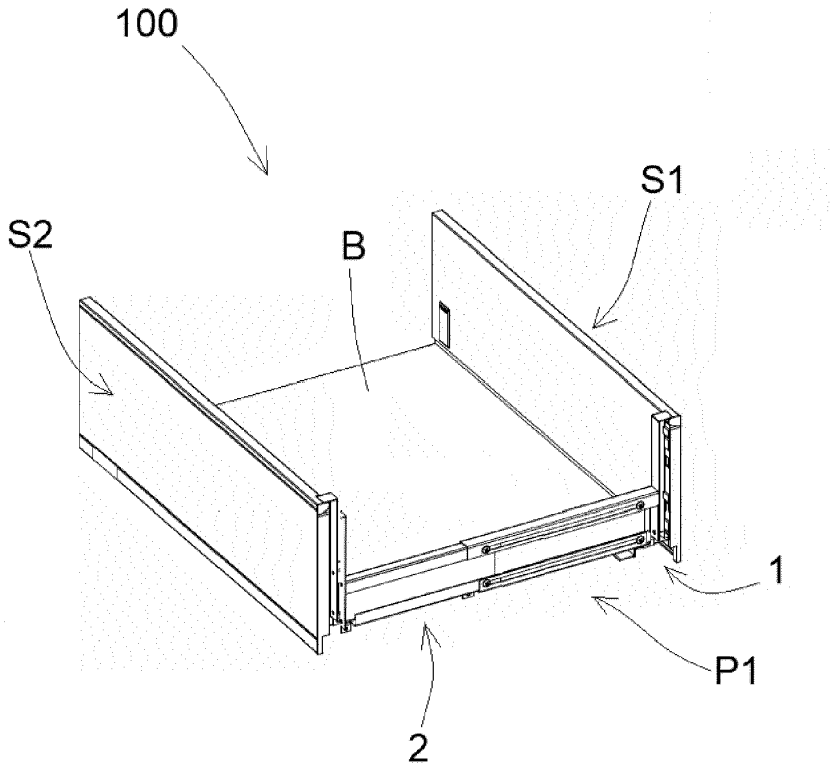

FIG. 1

EP 3 868 254 A1

Description

[0001] The present invention relates to a modular drawer for furniture, preferably a modular drawer for custom-made furniture.

[0002] The field of reference is the sector of furniture with drawers for interior spaces, particularly furniture with drawers for kitchens, bathrooms, living rooms or offices.

[0003] The market is currently facing an increasing demand for furniture with custom-made drawers, namely furniture with customized dimensions in order to satisfy the specific requests of a customer.

[0004] Producers of hardware for drawers usually provide furniture manufacturers with two sides, a base and a back side. The sides are suitable for being connected to the back side by means of connection elements.

[0005] In order to meet the specific requests and needs of each single customer, and in order to adjust the drawer to the width of the piece of furniture wherein the drawer is inserted, the producers of hardware for drawers must necessarily supply a back side with a suitable size with respect to the piece of furniture. Otherwise said, the back side must be cut to measure in order to comply with the width of the piece of furniture.

[0006] Therefore, in order to produce a drawer that can be inserted in a piece of furniture with a given width, it is necessary to:

- measure the piece of furniture wherein the drawer is to be inserted, and
- cut the back side to measure according to the measurements of the piece of furniture.

[0007] Such a solution is extremely uneconomical in terms of production times and expensive because in such a case the machines need to be adjusted and programmed for each specific modular drawer.

[0008] Moreover, rejected pieces may be originated in case of errors or inaccuracies during the measurement or during the cutting of the back side. Evidently, said errors or inaccuracies will considerably slow down the production of said modular drawers for furniture.

[0009] US3463343 discloses a drawer for cabinets according to the preamble of the independent claim 1.

[0010] US3272583 discloses a drawer for cabinets according to the preamble of the independent claim 5.

[0011] US2007/114893 discloses an adjustable sliding sink drawer comprising panels and shaped trays for the insertion of a device, similarly to a drawer.

[0012] The purpose of the present invention is to remedy the drawbacks of the prior art by disclosing a modular drawer that can be adjusted in width easily and rapidly according to the requirements of a user, eliminating the step of measuring and the step of cutting of the back side.

[0013] Another purpose of the present invention is to disclose a modular drawer that is easy and economical to produce.

[0014] These purposes are achieved according to the invention with the characteristics of the independent claims.

[0015] Advantageous embodiments appear from the dependent claims.

[0016] The modular drawer of the invention is defined by the independent claims.

[0017] For the sake of clarity, the description of the modular drawer according to the invention continues with reference to the appended drawings, which have a merely illustrative, not limiting value, wherein:

Fig. 1 is an axonometric view of a first embodiment of the modular drawer according to the invention;
Fig. 2 is an axonometric view of the modular drawer of Fig. 1, wherein the base is disassembled from the sides and from the back side;
Fig. 3 is an axonometric view of the first lateral section and of the second lateral section of the back side of Fig. 2 in disassembled condition;
Fig. 3A is an enlarged view of the detail enclosed in the broken circle K3 of Fig. 3;
Fig. 4 and Fig. 5 are views of the first lateral section and of the second lateral section of the back side in assembled condition in two different positions;
Fig. 4A is an enlarged view of the detail enclosed in the broken circle K4 of Fig. 4;
Fig. 5A is an enlarged view of the detail enclosed in the broken circle K5 of Fig. 5;
Fig. 6 is an axonometric view of a second embodiment of the modular drawer according to the invention;
Fig. 7 is an axonometric view of the modular drawer of Fig. 6, wherein the base is disassembled from the sides and from the back side;
Fig. 8 is an axonometric view of the back side of Fig. 7, wherein the lateral sections and the central section of the back side are disassembled;
Fig. 8A is an enlarged view of the detail enclosed in the broken circle K8 of Fig. 8;
Fig. 9 and Fig. 10 are axonometric views of the back side of Fig. 8, wherein the lateral sections and the central section of the back side are assembled in two different positions;
Fig. 9A is an enlarged view of the detail enclosed in the broken circle K9 of Fig. 9;
Fig. 10A is an enlarged view of the detail enclosed in the broken circle of K10 of Fig. 10;
Fig. 11 is an axonometric view of a constructive detail of the modular drawer according to the invention;
Figs. 12A and 12B are views of the two lateral sections of the back side according to a different constructive variant;
Fig. 13 and Fig. 14 are two axonometric views of two pieces of furniture comprising the modular drawer of Fig. 1;
Fig. 15 and Fig. 16 are two axonometric views of two pieces of furniture comprising the modular drawer of Fig. 6.

[0018] With reference to Figs. 1 to 10, a modular drawer of the invention is disclosed according to two embodiments, which are comprehensively indicated with reference numerals (100 and 200). The two embodiments are perfectly identical for what concerns the purpose to be achieved by the present invention.

[0019] According to both embodiments, the modular drawer (100, 200) comprises a pair of sides (S1, S2), a back side (P1, P2) orthogonal to the sides (S1, S2) and a base (B) supported by the pair of sides (S1, S2) and by the back side (P1, P2).

[0020] The two embodiments of the invention differ in the structure of the back side (P1, P2).

[0021] Following is a description of the first embodiment of the invention shown in Figs. 1 to 5, which will be followed by the description of the second embodiment of the invention shown in Figs. 6 to 10.

[0022] With reference to Figs. 1 to 5, the back side (P1) of the modular drawer (100) according to the first embodiment of the invention comprises a first lateral section (1) and a second lateral section (2), each of them being connected to a side (S1, S2). The two lateral sections (1, 2) are slidingly mounted in such a way to adjust the distance between the two sides (S1, S2).

[0023] The modular drawer (100) is provided with fixing means (V) for fixing the two sides (1, 2) in such a way to adjust the distance between the sides (S1, S2) in order to insert the modular drawer (100) in a piece of furniture with a specific width.

[0024] With reference to Figs. 3 and 3A, the first lateral section (1) comprises a seat (10) wherein said second lateral section (2) is slidingly inserted. More precisely, the first lateral section (1) has a C-shaped section and comprises a central portion (13), an upper portion (11) and a lower portion (12) that define the seat (10) wherein the second lateral section (2) slides.

[0025] Preferably, also the second lateral section (2) has a C-shaped section and comprises a central portion (23) adjacent to the central portion (13) of the first lateral section (1), an upper portion (21) adjacent to the upper portion of the first lateral section (1), and a lower portion (22) adjacent to the lower portion (12) of the first lateral section (1).

[0026] The first lateral section (1) comprises two longitudinal slots (1a, 1b) in parallel position, namely an upper longitudinal slot (1a) obtained in the upper portion (11) and a lower longitudinal slot (1b) obtained in the lower portion (12).

[0027] Two holes (2a, 2b) are obtained in said second lateral section (2). Each hole (2a, 2b) is aligned with one of said longitudinal slots (1a, 1b).

[0028] In particular, a first hole (2a) is obtained in the upper portion (21) of the second lateral section (2) and a second hole (2b) is obtained in the lower portion (22) of the second lateral section (2).

[0029] Preferably, according to an embodiment shown in Figs. 1 to 5, said upper portion (11) and said lower portion (12) of the first lateral section (1) comprise a transverse portion, which protrudes perpendicularly with respect to the central portion (13), and a folded portion (11a, 12a) parallel to the central portion (13). Likewise, also the upper portion (21) and the lower portion (22) of the second lateral section (2) comprise a transverse portion, which protrudes perpendicularly with respect to the central portion (23), and a folded portion (21a, 22a) parallel to the central portion (23).

[0030] The upper longitudinal slot (1a) is obtained in the folded portion (11a) of the upper portion (11), whereas said lower longitudinal slot (1b) is obtained in the folded portion (11a, 12a) of the lower portion (12).

[0031] Each hole (2a, 2b) is obtained in the folded portion (21a, 22a) of the upper portion (21) or of the lower portion (22) of the second lateral section (2).

[0032] According to a preferred embodiment, the fixing means (V) comprise two screws (V). Each screw (7) comprises a threaded stem (71) that is inserted through a longitudinal slot (1a, 1b) and is engaged in a hole (2a, 2b). Each screw (7) comprises a head (72) suitable for rubbing against a surface of the first lateral section (1), which defines the longitudinal slot (1a, 1b) when the screw (7) is screwed in the hole (2a, 2b) in such a way to fix the two lateral sections (1, 2).

[0033] When the head (72) of the screw (7) does not rub against the lateral surface that defines the longitudinal slot (1a, 1b) of the first lateral section (1), the screw (7) can slide along said longitudinal slot (1a, 1b) and consequently the two sections can slide one with respect to the other between a first end-of-travel position (shown in Fig. 4 and 4A), and a second end-of-travel position (shown in Fig. 5 and 5A).

[0034] The holes (2a, 2b) can alternatively be threaded holes or unthreaded holes. If said holes (2a, 2b) are unthreaded holes, the screws (7) will be self-tapping screws.

[0035] It must be noted that, although two longitudinal slots (1a, 1b) and two holes (2a, 2b) are shown in Figs. 1 to 5, wherein each one of said holes (2a, 2b) is aligned with a longitudinal slot (1a, 1b), the purposes of the present invention are equally achieved if the first lateral section (1) is provided with one longitudinal slot, or if the second lateral section (2) is provided with one threaded hole, which is aligned with said longitudinal slot.

[0036] With reference to Figs. 6 to 10, the modular drawer (200) of the invention according to its second embodiment is described.

[0037] In said second embodiment, the back side (P2) of the modular drawer (200) comprises two lateral sections (3, 4), each one of them being connected to a side (S1, S2), and a central section (5). The lateral sections (3, 4) are slidingly mounted with respect to the central section (5) in such a way to adjust the distance between the two sides (S1, S2).

[0038] The modular drawer (200) is provided with fixing means (V) for fixing the two lateral sections (3, 4) with respect to the central section (5) in such a way to adjust the distance between the sides (S1, S2) in order to insert

the modular drawer (200) in a piece of furniture with any width.

[0039] With reference to Figs. 8 and 8A, each lateral section (3, 4) comprises a seat (30, 40) wherein said central section (5) is slidingly inserted.

[0040] More precisely, each lateral section (3, 4) comprises a C-shaped profile comprising a central portion (33, 43), an upper portion (31, 41) and a lower portion (32, 42) that define said seat (30, 40).

[0041] Preferably, the central section (5) comprises a first ending portion (501) and a second ending portion (502), each of them being slidingly inserted in the seat (30, 40) of a lateral section (3, 4).

[0042] Still with reference to Figs. 8 and 8A, each ending portion (501, 502) has a C-shaped section and comprises a central portion (53) adjacent to the central portion (33, 43) of one of the two lateral sections (3, 4), an upper portion (51) adjacent to the upper portion (31, 41) of one of the two lateral sections (3, 4), and a lower portion (52) adjacent to the lower portion (32, 42) of one of the two lateral sections (3, 4).

[0043] Each lateral section (3, 4) comprises two longitudinal slots (3a, 3b; 4a, 4b) in parallel position, namely an upper longitudinal slot (3a, 4a) obtained in the upper portion (31, 41), and a lower longitudinal slot (3b, 4b) obtained in the lower portion (32, 42).

[0044] The central section (5) comprises four holes (5a, 5b, 5c, 5d), namely two first holes (5a ,5b) obtained in the first ending portion (501), each one of them being aligned with a longitudinal slot (3a, 3b) of a lateral section (3), and two second holes (5c, 5d) obtained in the second ending portion (502), each one of them being aligned with a longitudinal slot (4a, 4b) of the other lateral section (4) .

[0045] More precisely, the two first holes (5a, 5b) comprise a first upper hole (5a) obtained in the upper portion (51) of the first ending portion (501), and a first lower hole (5b) obtained in the lower portion (52) of the first ending portion (502). The two second holes (5c, 5d) comprise a second upper hole (5c) obtained in the upper portion (51) of the second ending portion (502), and a second lower hole (5d) obtained in the lower portion (52) of the second ending portion (502).

[0046] Preferably, according to the embodiment of Figs. 6 to 10, said upper portion (31, 41) and said lower portion (32, 42) of each lateral section (3, 4) comprise a transverse portion, which protrudes perpendicularly from the central portion (33, 43) of the lateral section (3, 4), and a folded portion (31 a, 32a; 41a, 42a) parallel to the central portion (33, 43).

[0047] Likewise, also the upper portion (51) and the lower portion (52) of each ending portion (501, 502) of the central section (5) comprise a transverse portion, which protrudes perpendicularly from the central portion (53), and a folded portion (51a, 52a) parallel to the central portion (53).

[0048] Each upper longitudinal slot (3a, 4a) is obtained in the folded portion (31a, 41a) of the upper portion (31, 41) of the lateral section (3, 4) and each lower longitudinal slot (3b, 4b) is obtained in the folded portion (32a, 42a) of the lower portion (32, 42) of the lateral section (3, 4).

[0049] Each hole (5a, 5b, 5c, 5d) is obtained in the folded portion (51a, 51b) of the upper portion (51) or of the lower portion (52) of the first ending portion (501) or of the second ending portion (502) of the central section (5).

[0050] The fixing means (V) comprise four screws (V), namely one screw (7) for each hole (5a, 5b, 5c, 5d), provided with a threaded stem (71) that is inserted through a longitudinal slot (3a, 3b, 4a, 4b) and is engaged in a hole (5a, 5b, 5c, 5d). Each screw (7) comprises a head (72) suitable for rubbing against a surface of the lateral section (3, 4) that defines the longitudinal slot (3a, 3b, 4a, 4b) when the screw (7) is screwed in the hole in such a way to fix the lateral section (3, 4) to the central section (5).

[0051] When the head (72) of the screw (7) does not rub against the lateral surface that defines the longitudinal slot (1a, 1b) of the lateral section (3, 4), the screw (7) can slide along said longitudinal slot (3a, 3b, 4a, 4b) and consequently the two sections can slide with respect to the central section (5) between a first end-of-travel position (shown in Fig. 9 and 9A), and a second end-of-travel position (shown in Fig. 10 and 10A).

[0052] The holes (5a, 5b, 5c, 5d) can alternatively be threaded holes or unthreaded holes. If the holes (5a, 5b, 5c, 5d) are unthreaded holes, the screws will be self-tapping screws.

[0053] Also in said second embodiment, one longitudinal slot can be obtained in each lateral section (3, 4), instead of two longitudinal slots. In such a case, only two holes will be obtained in said central section (5), each hole being aligned with the longitudinal slot of each lateral section (3, 4).

[0054] Moreover, it must be noted that the position of the longitudinal slots and the position of the holes can be reversed. More precisely, according to an alternative embodiment of the invention (not shown in the appended figures), the longitudinal slots may be obtained in the central section (5), and not in the lateral sections (3, 4), and the holes can be obtained in lateral sections (3, 4), and not in the central section (5).

[0055] With reference to Fig. 11, both in the first and in the second embodiment of the invention, the modular drawer (100, 200) comprises connection means (G) for connecting a lateral section (1, 2, 3, 4) to a side (S1, S2).

[0056] According to the embodiment of Fig. 11, said connection means (G) consist in fastening/unfastening means that fasten/unfasten a lateral section (1, 2, 3, 4) to/from a side (S1, S2).

[0057] In particular, said connection means (G) comprise:

- a plurality of projecting parts (81) provided in a back end (Sp) of the side (S1, S2), which project towards the interior of the modular drawer (100, 200); and

- a plurality of seats (82), one for each projecting part (81), provided in a connection ending element (9) obtained in one piece with a lateral section (1, 2, 3, 4) or obtained separately and connected to the lateral section (1, 2, 3, and 4).

[0058] Each projecting part (81) is suitable for being inserted in fit-in mode in one of said seats (82), thus fastening the lateral section to the side.

[0059] According to an alternative embodiment of the invention, which is not shown in the appended figures, said connection means (G) may comprise screws that are inserted in corresponding holes obtained in the back end (Sp) of the side (S1, S2) and in the lateral sections (1, 2, 3 and 4).

[0060] Following is a description of the mounting process of the modular drawer (100, 200) according to the invention.

[0061] In order to mount the modular drawer (100) according to the first embodiment of the invention, the first lateral section (1) and the second lateral section (2) are provided. Then, the two lateral sections (1, 2) slide until the two lateral sections (1, 2) are disposed in a desired position. Then, the two lateral sections (1, 2) are fixed with the fixing means (V), that is to say, the screws (7) are screwed inside the holes (2a, 2b) until the head (72) of each screw (7) rubs against the lateral surfaces of the first lateral section (1) that define the longitudinal slots (1a, 1b).

[0062] In order to mount the modular drawer (200) according to the second embodiment of the invention, the two lateral sections (3, 4) and the central section (5) are provided. Then, the lateral sections (3, 4) slide with respect to the central section (5) until the lateral sections (3, 4, 5) are disposed in a desired position. The, the lateral sections (3, 4) are fixed to the central section (5) with the fixing means (V), that is to say, the screws (7) are screwed inside the holes (5a, 5b, 5c, 5d) until the head (72) of each screw (7) rubs against the lateral surface of the lateral section (3,4) that defines the longitudinal slot (3a, 3b, 4a, 4b).

[0063] After fixing the lateral sections (1, 2, 3, 4, 5) and after defining the back side (P1, P2), the sides (S1, S2) are fastened to the lateral sections (1, 2, 3, 4) with said connection means (G).

[0064] Then, the base (B) is inserted between the sides (S1, S2) and the back side (P1, P2), it being supported by shelves (SS) of the sides (S1, S2).

[0065] Finally, the base (B) is fixed to the sides (S1, S2) and to the back side (P1, P2) with self-drilling or self-tapping screws inserted in holes obtained in the lateral sections (1, 2, 3, 4, 5) of the back side (P1, P2) and in holes (FS) obtained in the shelves (SS) of the sides (S1, S2).

[0066] Following is a description of some constructive variants of the present invention, with special reference to the fixing means (V) and to the configuration of the lateral sections (1, 2, 3, 4, 5).

[0067] With reference to the fixing means (V), the fixing means (V) may comprise rivets, instead of consisting in screws.

[0068] Additionally, still with reference to the fixing means (V), the fixing means (V) may consist in anchoring portions that are obtained in the first lateral section (1) and in the second lateral section (2), or in the lateral section (3, 4) and in the central section (5), by means of a clinching process, wherein said anchoring portions are plastically deformed with a punch and a die in such a way to provide junction points between the sections.

[0069] If said fixing means (V) consist in said anchoring portions obtained with a clinching process, the provision of longitudinal slots or holes in the lateral sections (1, 2, 3, 4, 5) is not necessary.

[0070] If said fixing means (V) consist in said rivets or in said anchoring portions obtained with a clinching process, in such a case, the fixing of the back side (P1, P2) by means of riveting or clinching occurs after assembling the base (B), the sides (S1, S2) and the back side (P1, P2) in the final position.

[0071] With reference to the lateral sections (1, 2, 3, 4, 5), although they are shown in Figs. 1 to 10 with a C-shaped section with upper portions and lower portions that comprise the folded portions (11a, 21a, 31a, 41a, 52a, 12a, 22a, 32a, 42a, 52a), the upper portion (11, 21, 31, 41, 51) and/or the lower portion (12, 22, 32, 42, 52) of the C-shaped sections may lack said folded portions (11a, 21a, 31a, 41 a, 52a, 12a, 22a, 32a, 42a, 52a).

[0072] Such alternative embodiments, which refer to the configuration of the sections, are shown for illustrative purposes in Figs. 12A and 12B, wherein in Fig. 12A the lower portions of the sections lack the folded portion, whereas in Fig. 12B both the lower portions and the upper portions of the sections lack the folded portion.

[0073] Evidently, if the upper portion (11, 21, 31, 41, 51) and/or the lower portion (12, 22, 32, 42, 52) lack said folded portions (11a, 21a, 31a, 41a, 52a, 12a, 22a, 32a, 42a, 52a), the longitudinal slots will be obtained in the transverse portion of the upper portion (11, 31, 41) or of the lower portion (12, 32, 42) and likewise the holes will be obtained in the transverse portion of the upper portion (21, 51) or of the lower portion (22, 52).

[0074] With reference to Figs. 13, 14, 15 and 16, an additional purpose of the present invention is a cabinet (M) comprising a frame, two lateral walls (M1, M2) in parallel position and one or more modular drawers (100, 200) according to the invention that are slidingly inserted by means of slides between the two lateral walls (M1, M2) of the cabinet.

[0075] Still with reference to Fig. 13, 14, 15 and 16, because of the fact that the back side (P1, P2) is composed of lateral sections (1, 2, 3, 4 e 5) that are capable of sliding, the distance between the sides (S1, S2) can be adjusted and therefore the modular drawer (100, 200) can be adapted to any type of cabinets, namely to a cabinet with any distance between the lateral walls.

[0076] From the preceding description, it appears

manifest that the present invention achieves the aforementioned purposes.

[0077] In fact, because of the provision of the lateral sections (1, 2, 3, 4) connected to the side (S1, S2) and mounted with possibility of sliding one with respect to the other, or with respect to the central section (5), the modular drawer (100, 200) according to the invention:

- eliminates the step of measuring and the step of cutting of the back side, said steps being instead necessary in the prior art;
- considerably reduces the production time of the modular drawer;
- reduces the production costs for the modular drawer;
- avoids the risk of originating rejected pieces during production because the width of the back side can be directly adjusted by the customer or by the furniture manufacturer.

Claims

1. Modular drawer (100) for furniture (M) comprising:

- a pair of sides (S1, S2);
- a back side (P1) disposed in orthogonal position relative to the sides (S1, S2);
- a base (B) supported by said pair of sides (S1, S2) and by said back side (P1);

said back side (P1) comprising a first lateral section (1) and a second lateral section (2), each of them connected with a side (S1, S2); said lateral sections (1, 2) being slidingly mounted in such a way to adjust the distance between the two sides (S1, tS2);
said modular drawer (100) comprising fixing means (V) for fixing the two lateral sections (1, 2) of the back side (P1);
wherein said first lateral section (1) comprises a seat (10) wherein said second lateral section (2) is slidingly inserted; said first lateral section (1) comprising at least one longitudinal slot (1a, 1b); said second lateral section (2) comprising at least one hole (2a, 2b) aligned with said at least one longitudinal slot (1a, 1b); said fixing means comprising at least one screw (7) with a threaded stem (71) that is inserted through said at least one longitudinal slot (1a, 1b) and is engaged in said at least one hole (2a, 2b) of the second lateral section; said at least one screw (7) comprising a head (72) suitable for rubbing against a surface of the first lateral section (1) that defines said at least one longitudinal slot (1a, 1b) when said at least one screw (7) is screwed in the hole (2a, 2b) of the second lateral section in such a way to fix the two lateral sections (1, 2),
characterized in that
said first lateral section (1) has a C-shaped section that comprises a central portion (13), an upper portion (11) and a lower portion (12) that define said seat (10) wherein the second lateral section (2) slides; said first lateral section (1) comprising two longitudinal slots (1a, 1b), namely an upper longitudinal slot (1a) obtained in the upper portion (11) and a lower longitudinal slot (1b) obtained in the lower portion (12); said second lateral section (2) comprising two holes (2a, 2b), each of them being aligned with a longitudinal slot (1a, 1b); said fixing means (V) comprising two screws (7), each one of them being provided with a threaded stem (71) that is inserted through a longitudinal slot (1a, 1b) and is engaged in a hole (2a, 2b).

2. The modular drawer (100) of claim 1, wherein said upper portion (11) and/or said lower portion (12) comprises a transverse portion that protrudes perpendicularly from the central portion (13) and a folded portion (11 a, 12a) parallel to the central portion (13); wherein:

- said upper longitudinal slot (1a) of said first lateral section (1) is obtained in said transverse portion or in said folded portion (11a) of the upper portion (11); and/or
- said lower longitudinal slot (1b) of said first lateral section (1) is obtained in said transverse portion or in said folded portion (12a) of the lower portion (12).

3. The modular drawer (100) of claim 1 or 2, comprising connection means (G) for connecting a lateral section (1, 2, 3, 4) with a side (S1, S2).

4. The modular drawer (100, 200) of claim 3, wherein said connection means (G) comprise:

- at least a projecting part (81) that is obtained in one end of the side (S1, S2) and projects towards the interior of the modular drawer (100, 200);
- at least one seat (82) for said at least one projecting part (81) obtained in a connection ending element (9) in one piece with a lateral section (1, 2, 3, 4) or obtain separately and connected to the lateral section (1, 2, 3, 4);

wherein said at least one projecting part (81) is suitable for being inserted in fit-in mode in said at least one seat (82).

5. Modular drawer (200) for furniture (M) comprising:

- a pair of sides (S1, S2);
- a back side (P2) disposed in orthogonal position relative to the sides (S1, S2);
- a base (B) supported by said pair of sides (S1, S2) and by said back side (P2);

said back side (P2) comprising two lateral sections (3, 4), each one of them being connected with a side (S1, S2), and a central section (5); said lateral sections (3, 4) being slidingly mounted relative to said central section (5) in such a way to adjust the distance between the two sides (S1, S2);
said modular drawer (100) comprising fixing means (V) for fixing the lateral sections (3, 4) relative to the central portion (5);
characterized in that
each lateral section (3, 4) has a C-shaped section comprising a central portion (33, 43), an upper portion (31, 41) and a lower portion (32, 42) that define said seat (30, 40); wherein each lateral section (3, 4) comprise two longitudinal slots (3a, 3b, 4a, 4b), of which an upper longitudinal slot (3a, 4a) obtained in the upper portion (31, 41) and a lower longitudinal slot (3b, 4b) obtained in the lower portion (32, 42); said central section (5) comprising two first holes (5a, 5b), each one of them being aligned with a longitudinal slot (3a, 3b) of a lateral section (3), and two second holes (5c, 5d), each one of them being aligned with a longitudinal slot (4a, 4b) of the other lateral section (4); said fixing means (V) comprising four screws (7), each one of them being provided with a threaded stem (71) that is inserted through a longitudinal slot (3a, 3b, 4a, 4b) and is engaged in a hole (5a, 5b, 5c, 5d).

6. The modular drawer (100) of claim 5, wherein each lateral section (3, 4) comprises a seat (30, 40) wherein said central section (5) is slidingly inserted; each lateral section (3, 4) comprises at least one longitudinal slot (3a, 3b, 4a, 4b); said central section (5) comprising at least one first hole (5a, 5b) and at least one second hole (5c, 5d), each one of them being aligned with said at least one longitudinal slot (3a, 3b, 4a, 4b) of one of the lateral sections (3, 4); said fixing means (V) comprising a screw (7) for each hole (5a, 5b, 5c, 5d), provided with a threaded stem (71) that is inserted through a longitudinal slot (3a, 3b, 4a, 4b) and is engaged in a hole (5a, 5b, 5c, 5d); each screw (7) comprising a head (72) suitable for rubbing against a surface of the lateral section (3, 4) that defines said at least one longitudinal slot (3a, 3b, 4a, 4b) of a lateral section (3, 4) when the screw (7) is screwed in the hole in such a way to fix the lateral section (3, 4) to the central section (5).

7. The modular drawer (200) of claim 6, wherein said upper portion (31, 41) and/or said lower portion (32, 42) of each lateral section (3, 4) comprises a transverse portion, which protrudes perpendicularly from the central portion (33), and a folded portion (31a, 41a, 32a, 42a) parallel to the central portion (33); wherein:

- said upper longitudinal slot (3a, 4a) of each lateral section (3, 4) is obtained in said transverse portion or in said folded portion (31a, 41a); and/or
- said lower longitudinal slot (3b, 4b) of each lateral section (3, 4) is obtained in said transverse portion or in said folded portion (32a, 42a).

8. The modular drawer (200) of any one of the claims 5 to 7, comprising connection means (G) for connecting a lateral section (1, 2, 3, 4) with a side (S1. S2).

9. The modular drawer (100, 200) of claim 8, wherein said connection means (G) comprise:

- at least one projecting part (81) that is obtained in one end of the side (S1, S2) and projects towards the interior of the modular drawer (100, 200);
- at least one seat (82) for said at least one projecting part (81) obtained in a connection ending element (9) in one piece with a lateral section (1, 2, 3, 4) or obtained separately and connected to the lateral section (1, 2, 3, 4);

wherein said at least one projecting part (81) is suitable for being inserted in fit-in mode in said at least one seat (82).

10. Cabinet (M) comprising at least one modular drawer (100) according to any one of the claims 1 to 4.

11. Cabinet (M) comprising at least one modular drawer (200) according to any one of the claims 5 to 9.

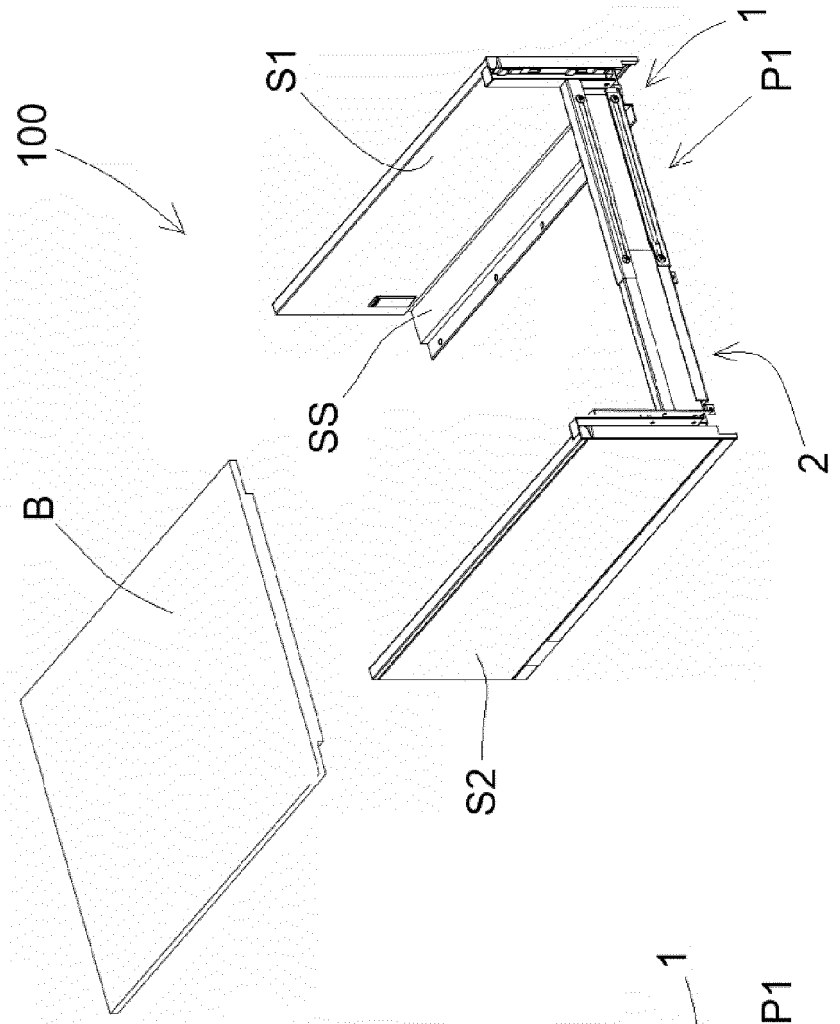

FIG. 2

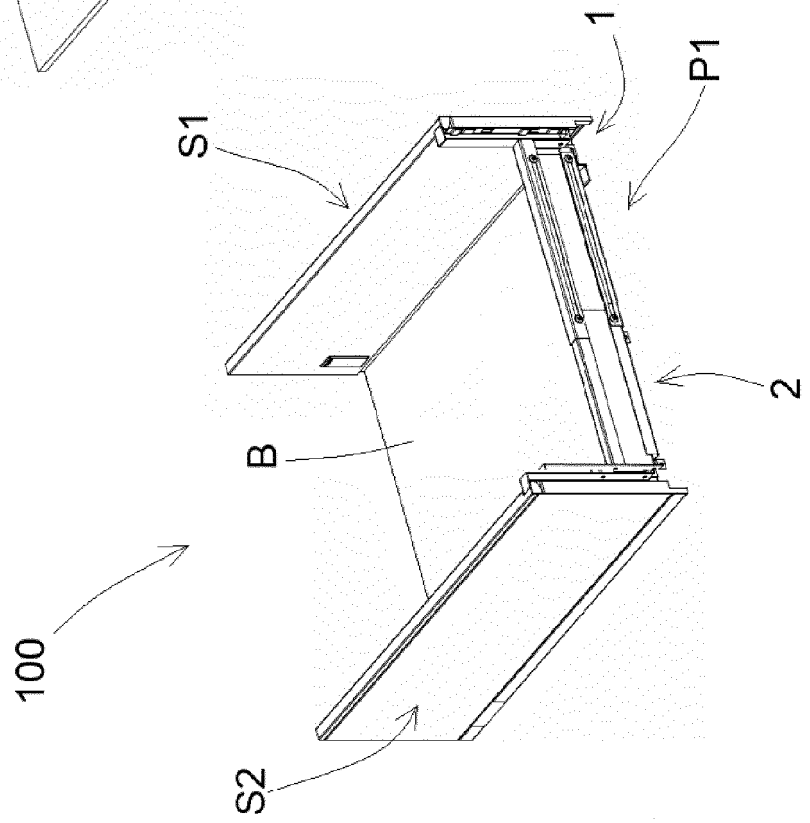

FIG. 1

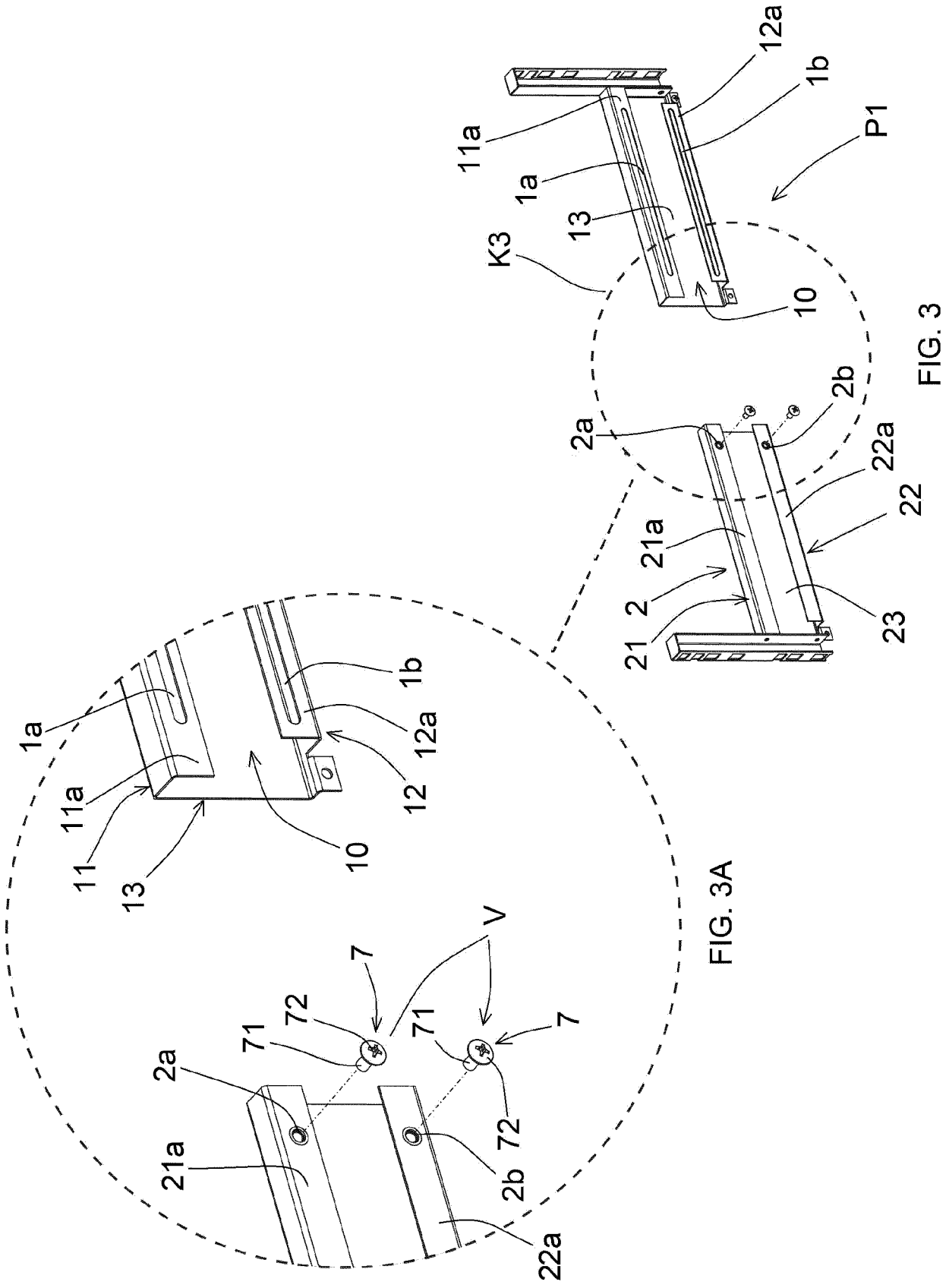
12a
1b
11a
P1
1a
13
K3
10
2b
2a
22a
22
21a
2
21
23
1a
1b
11a
12a
12
11
13
10
V
7
71
72
71
7
2a
72
21a
2b
22a

FIG. 3

FIG. 3A

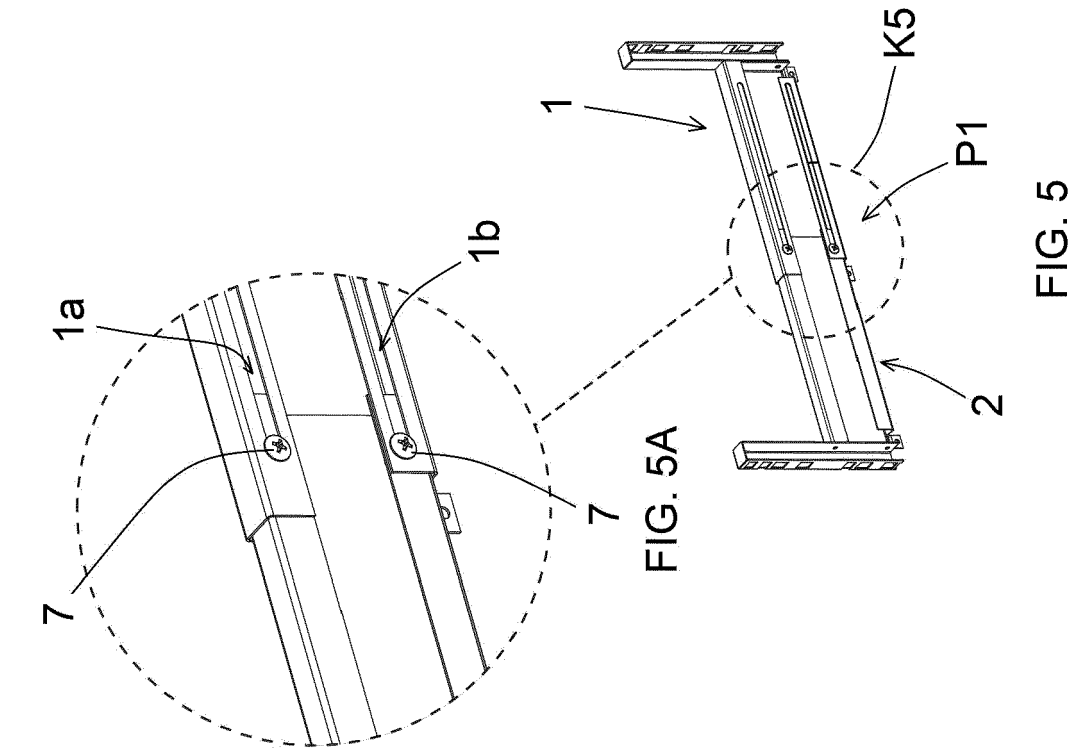

FIG. 5

FIG. 5A

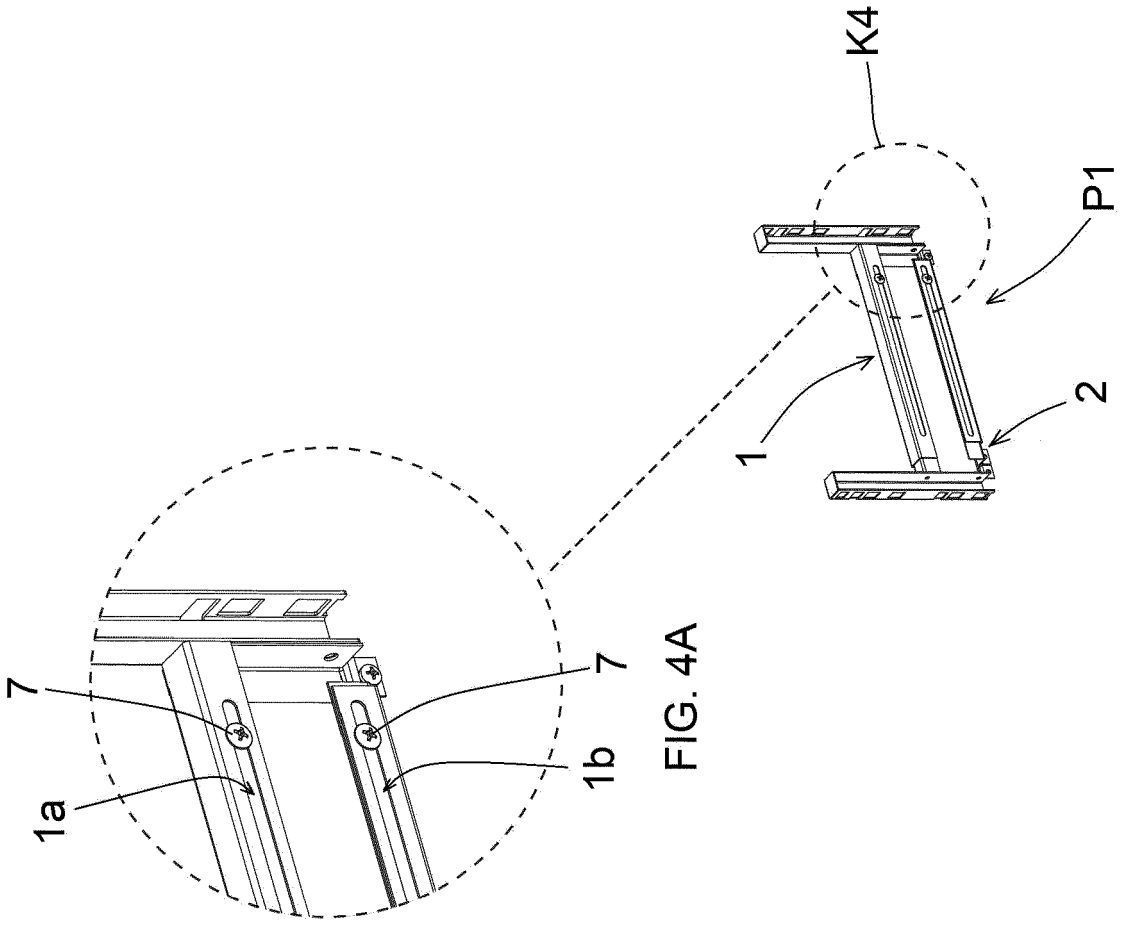

FIG. 4

FIG. 4A

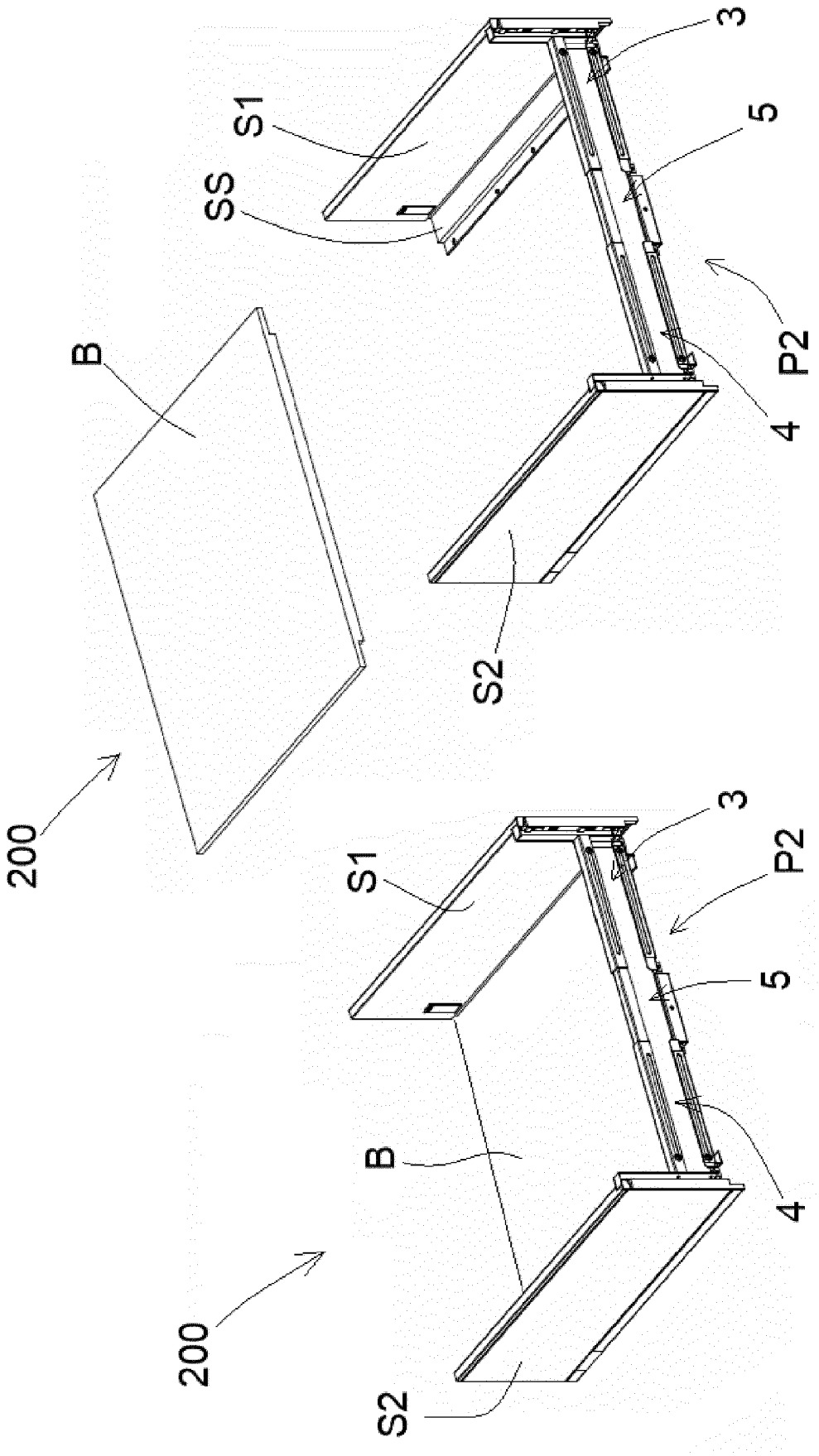

FIG. 7

FIG. 6

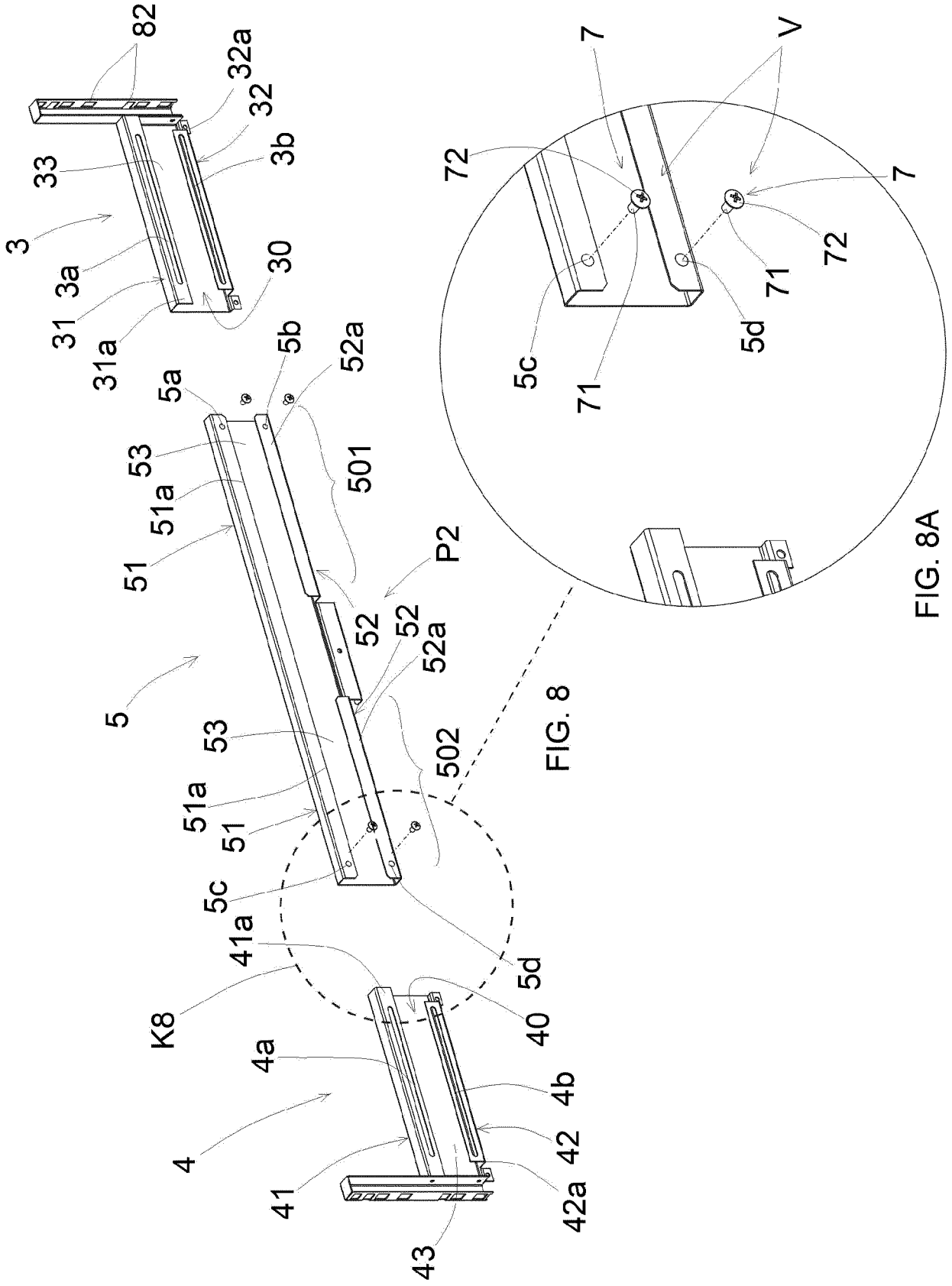
82
32a
32
33
3b
3
3a
30
31
31a
5b
52a
5a
53
501
51a
51
P2
52
52
52a
5
53
502
51a
51
5c
41a
5d
K8
40
4a
4b
4
42
41
42a
43
7
V
72
7
72
71
5d
5c
71

FIG. 8

FIG. 8A

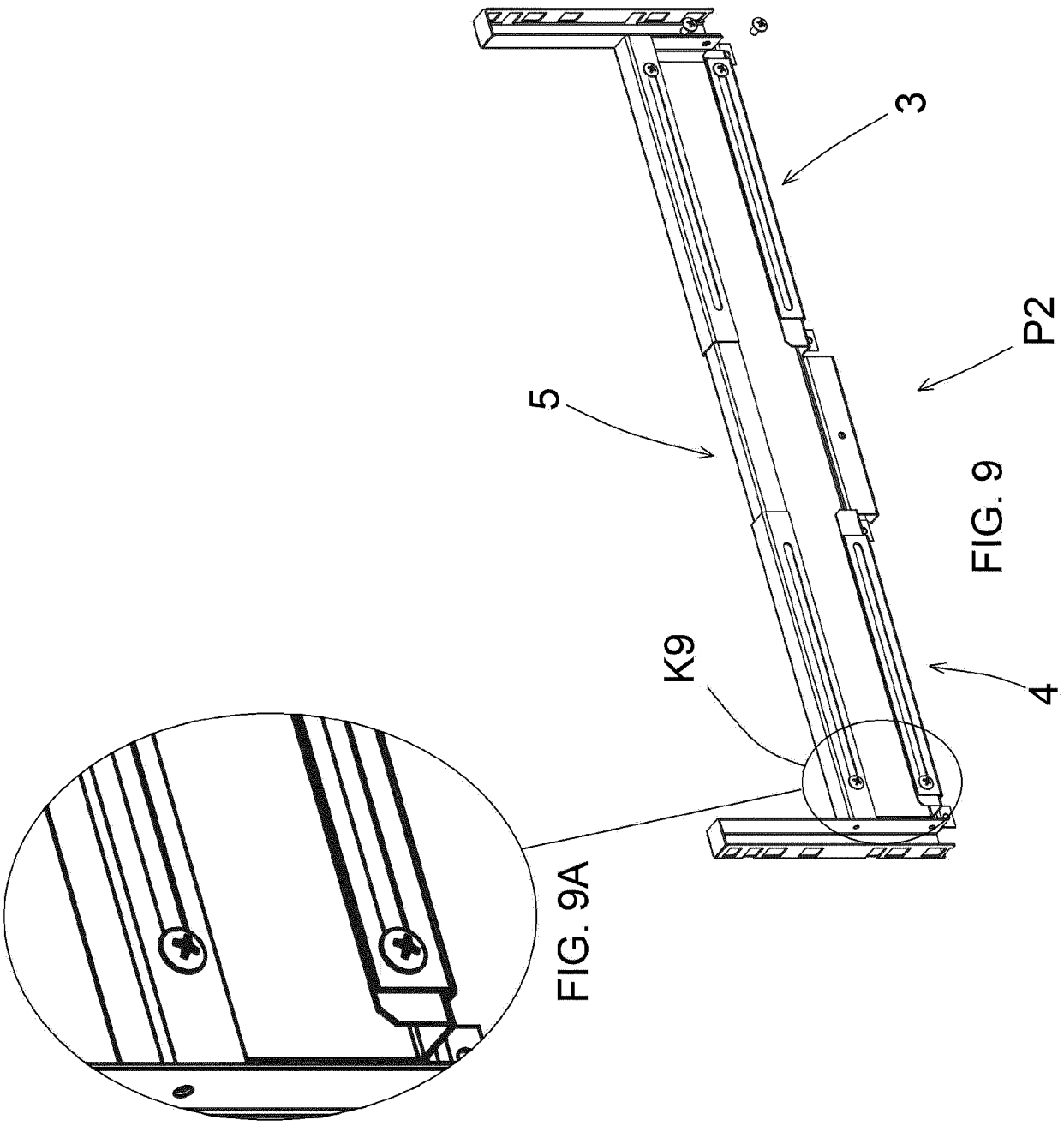

FIG. 9

FIG. 9A

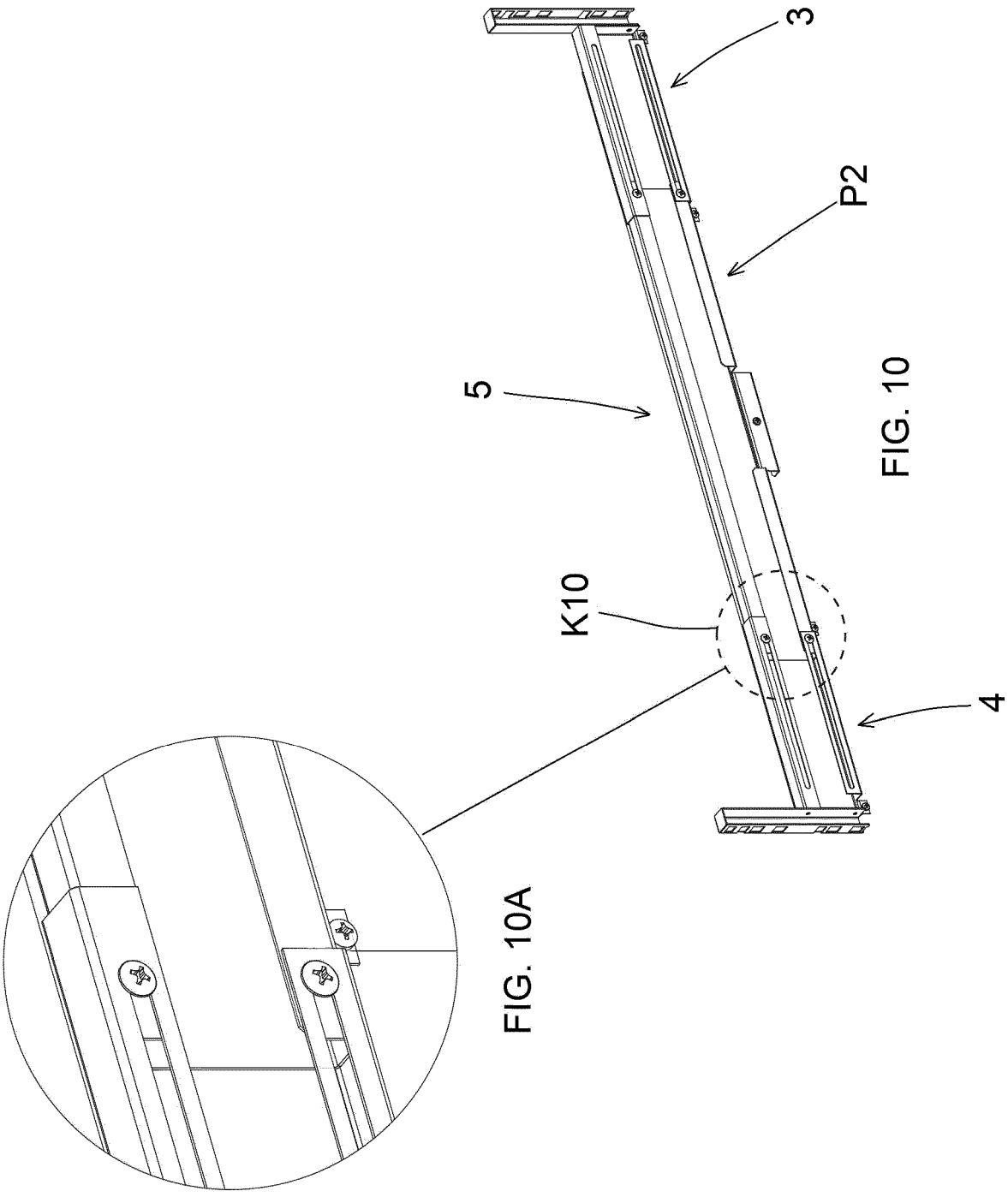

FIG. 10

FIG. 10A

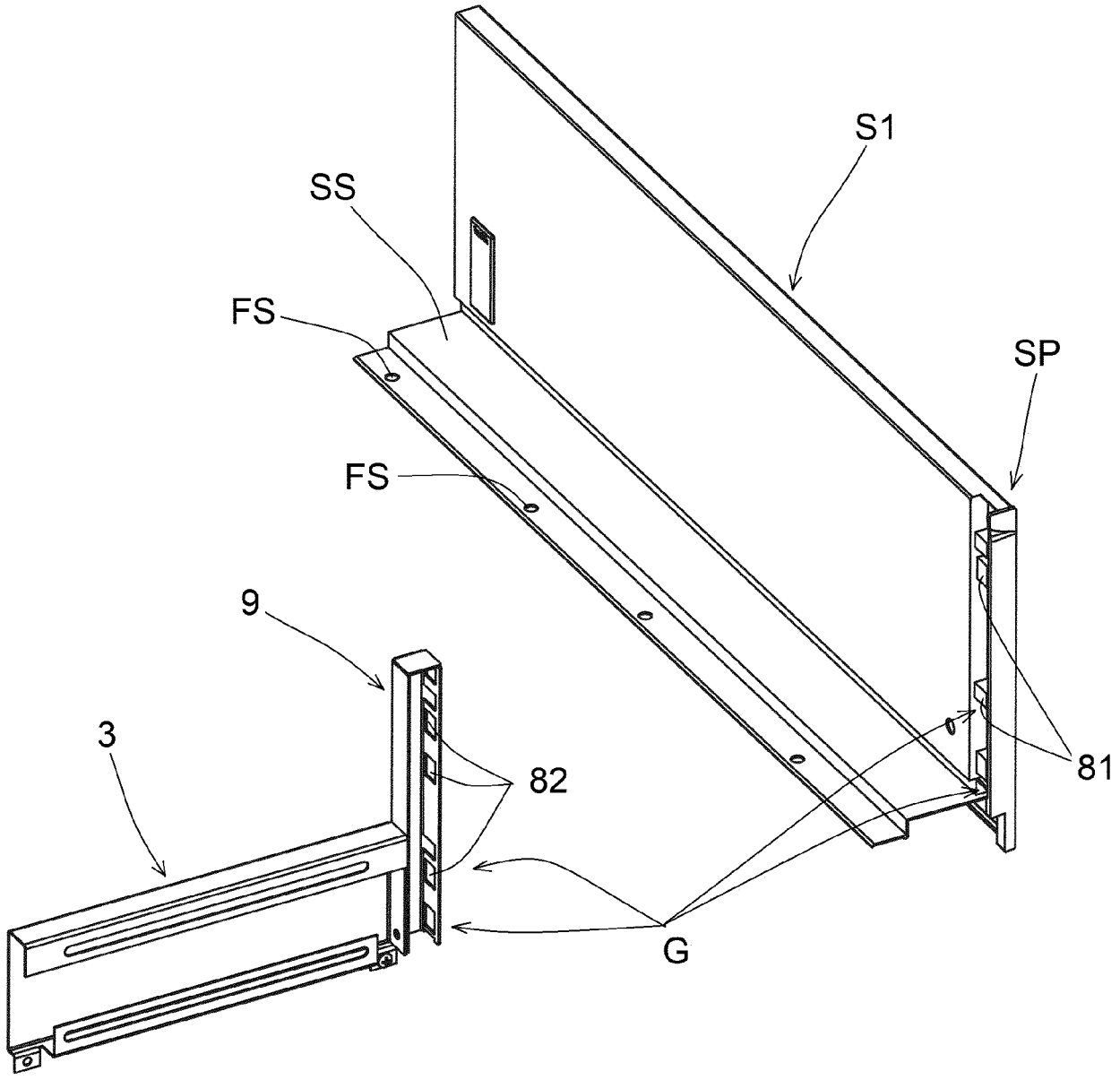

FIG. 11

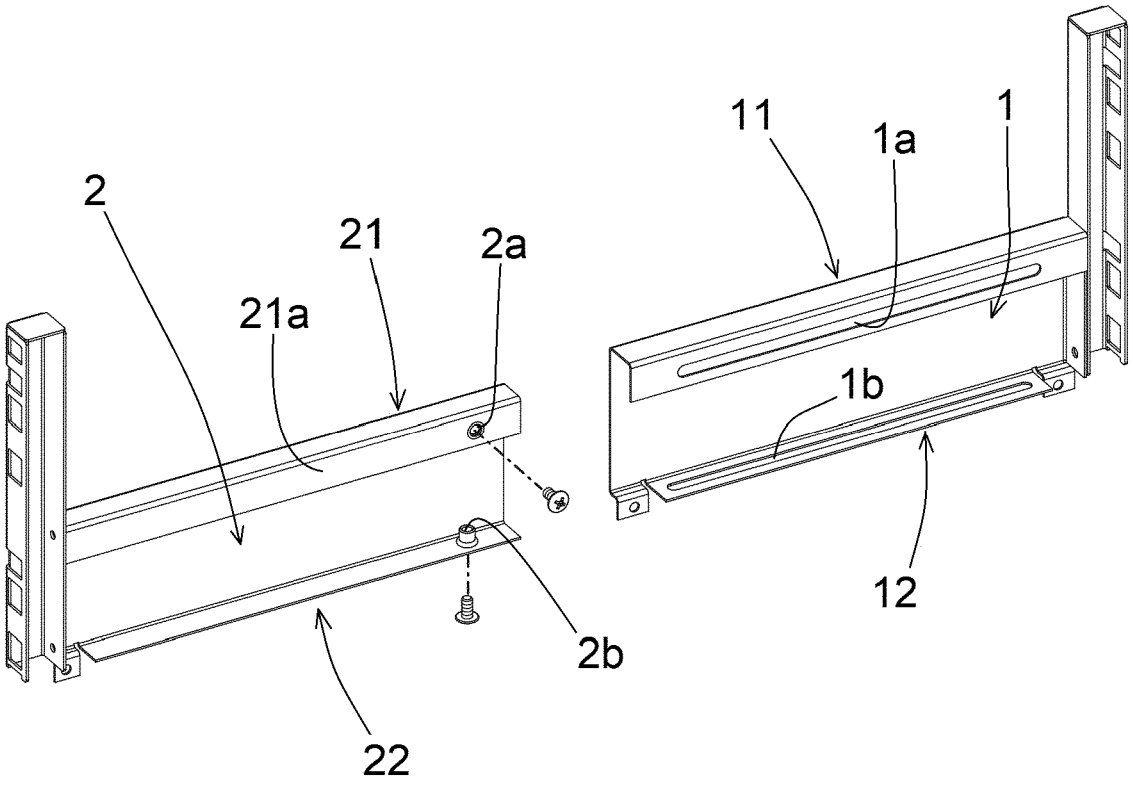

FIG. 12A

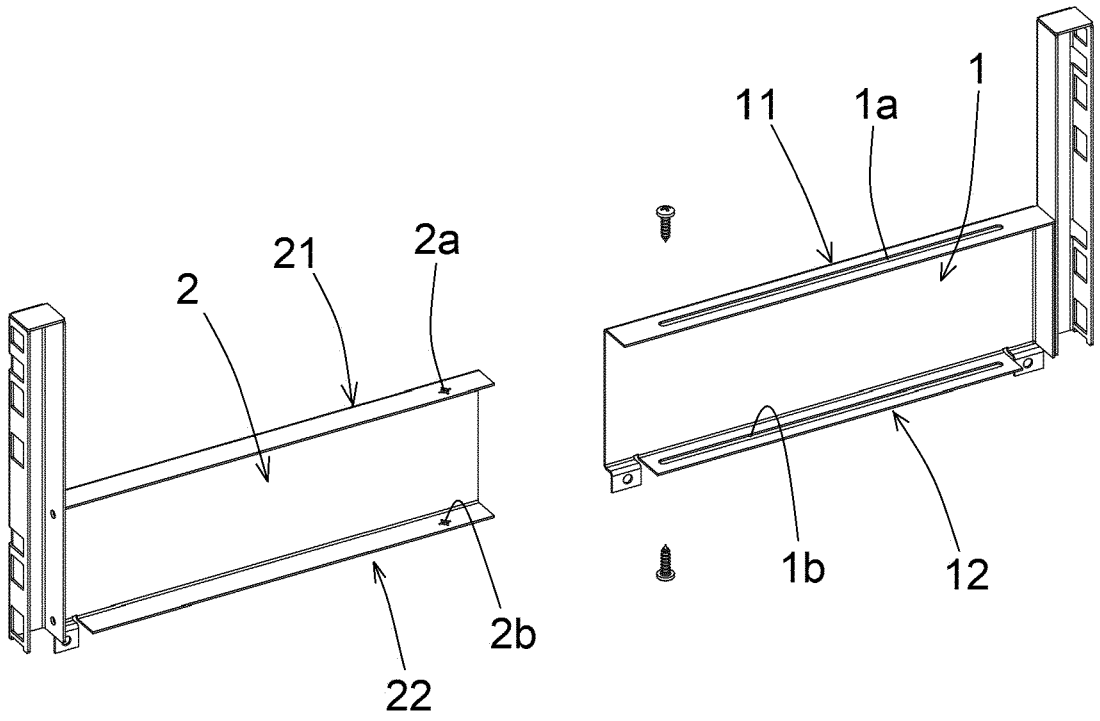

FIG. 12B

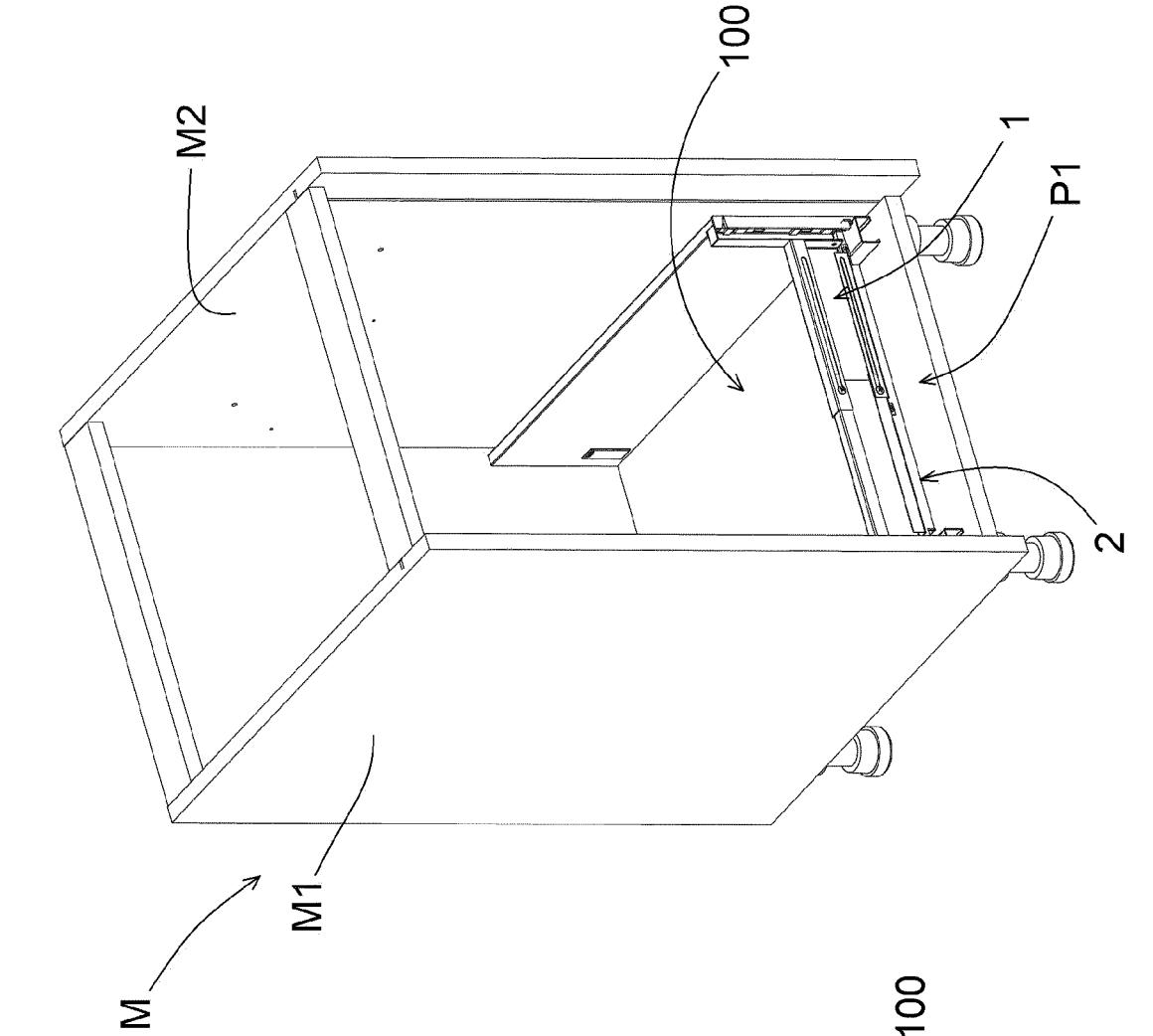

FIG. 14

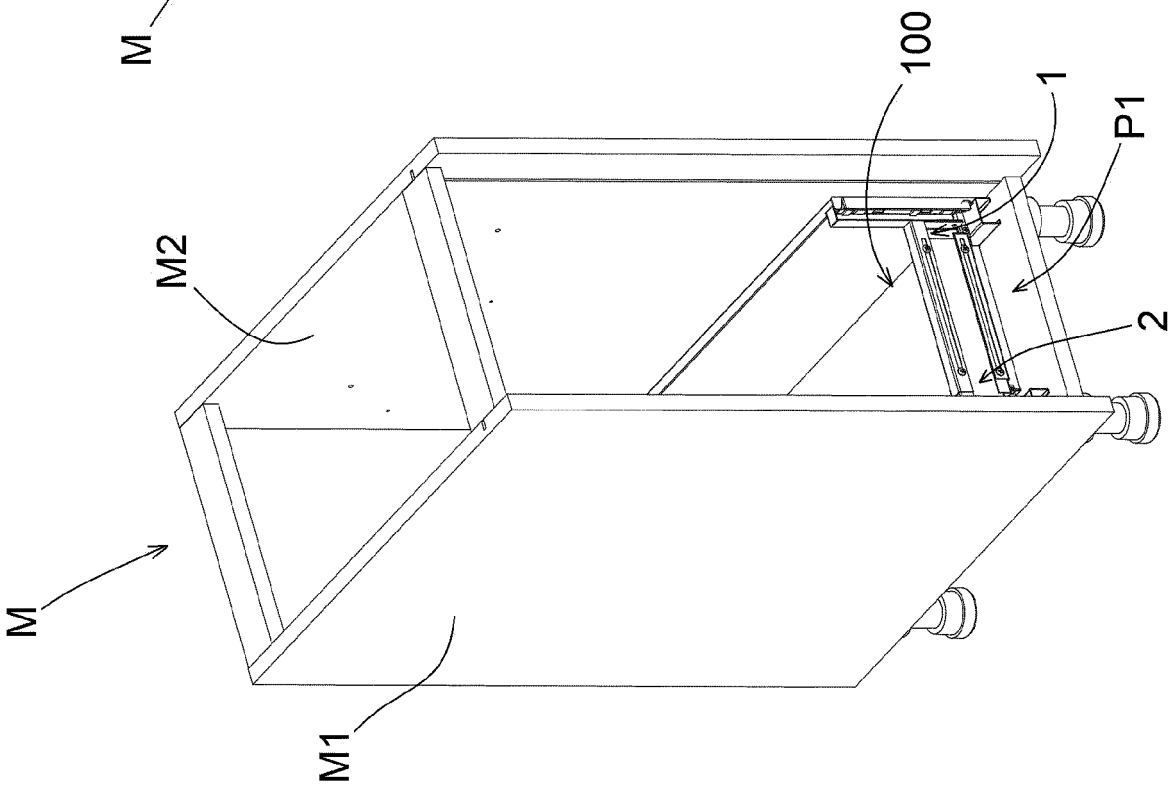

FIG. 13

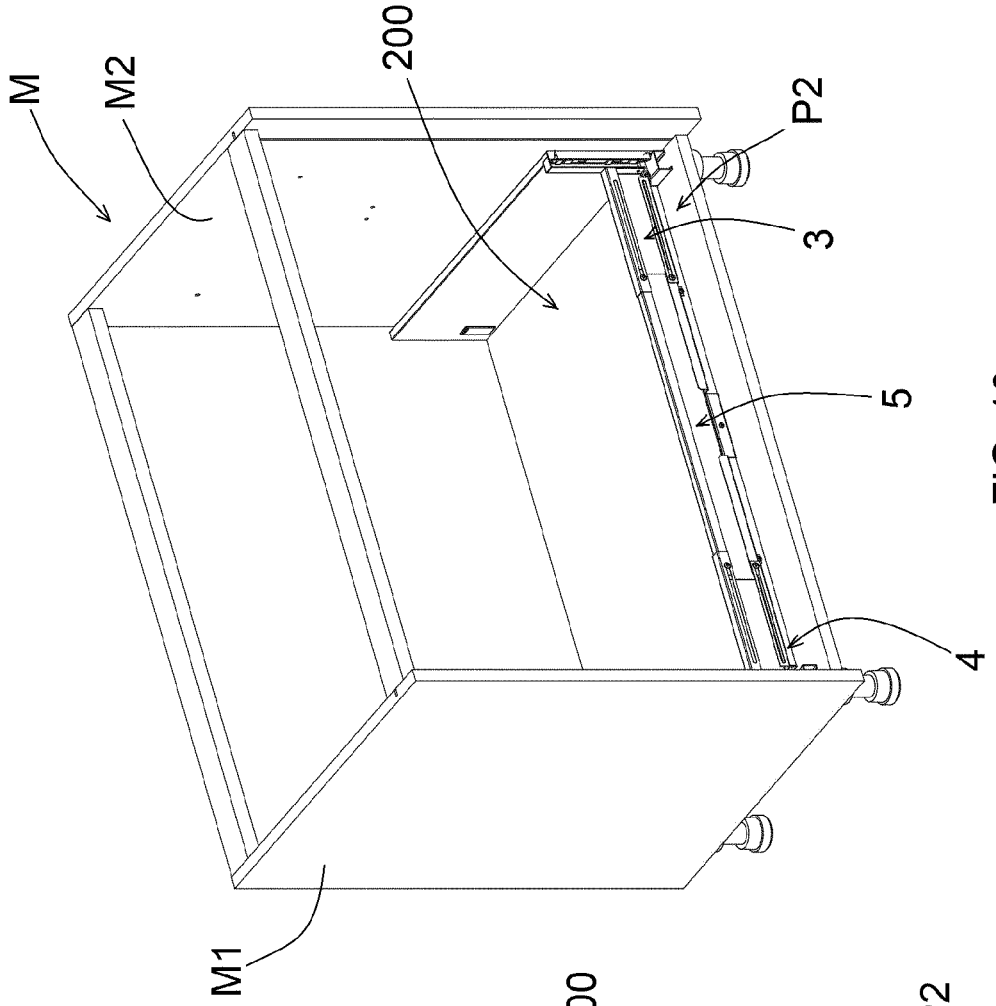

FIG. 16

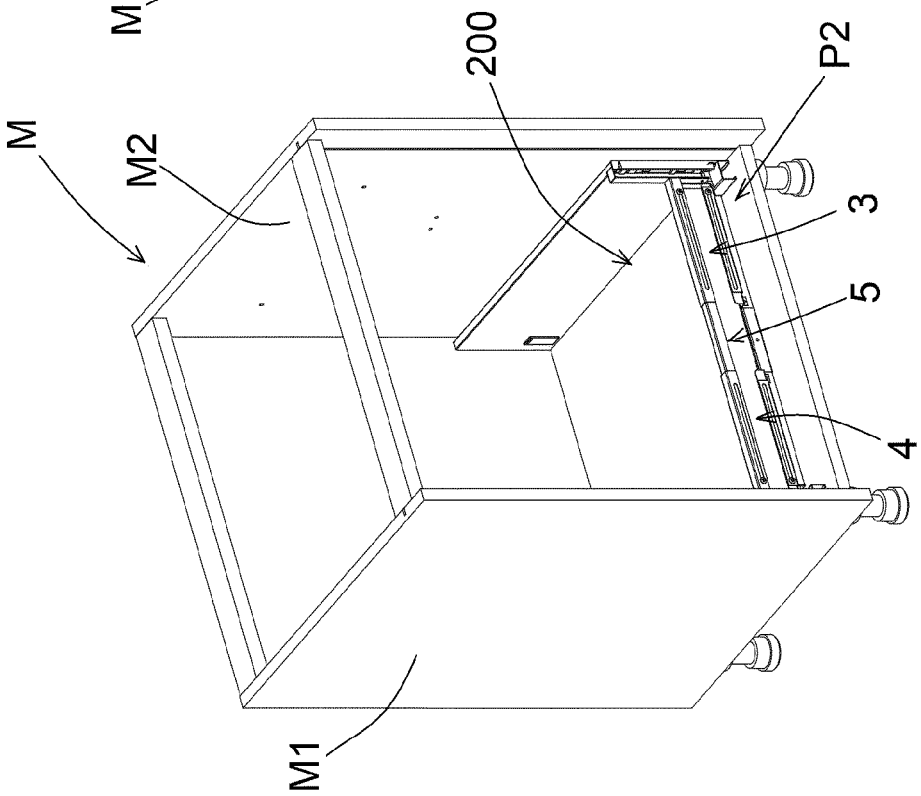

FIG. 15

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 21 15 7759

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2007/114893 A1 (STYKA KIMBERLY A [US] ET AL) 24 May 2007 (2007-05-24) * paragraph [0004] - paragraph [0037]; figures 1-6 *	1,5	INV. A47B88/40 A47B88/90
X	US 3 272 583 A (AVERDIECK EDWARD P) 13 September 1966 (1966-09-13) * column 1, line 44 - column 3, line 32; figures 1,2 *	5,6	
X	US 3 463 343 A (ASENBAUER DONALD J) 26 August 1969 (1969-08-26) * column 1, line 26 - column 7, line 39; figures 1-11 *	1,2	

TECHNICAL FIELDS SEARCHED (IPC)

A47B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	11 June 2021	Kohler, Pierre

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

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 21 15 7759

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-06-2021

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007114893 A1	24-05-2007	NONE	
US 3272583 A	13-09-1966	NONE	
US 3463343 A	26-08-1969	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- US 3463343 A **[0009]**
- US 3272583 A **[0010]**
- US 2007114893 A **[0011]**