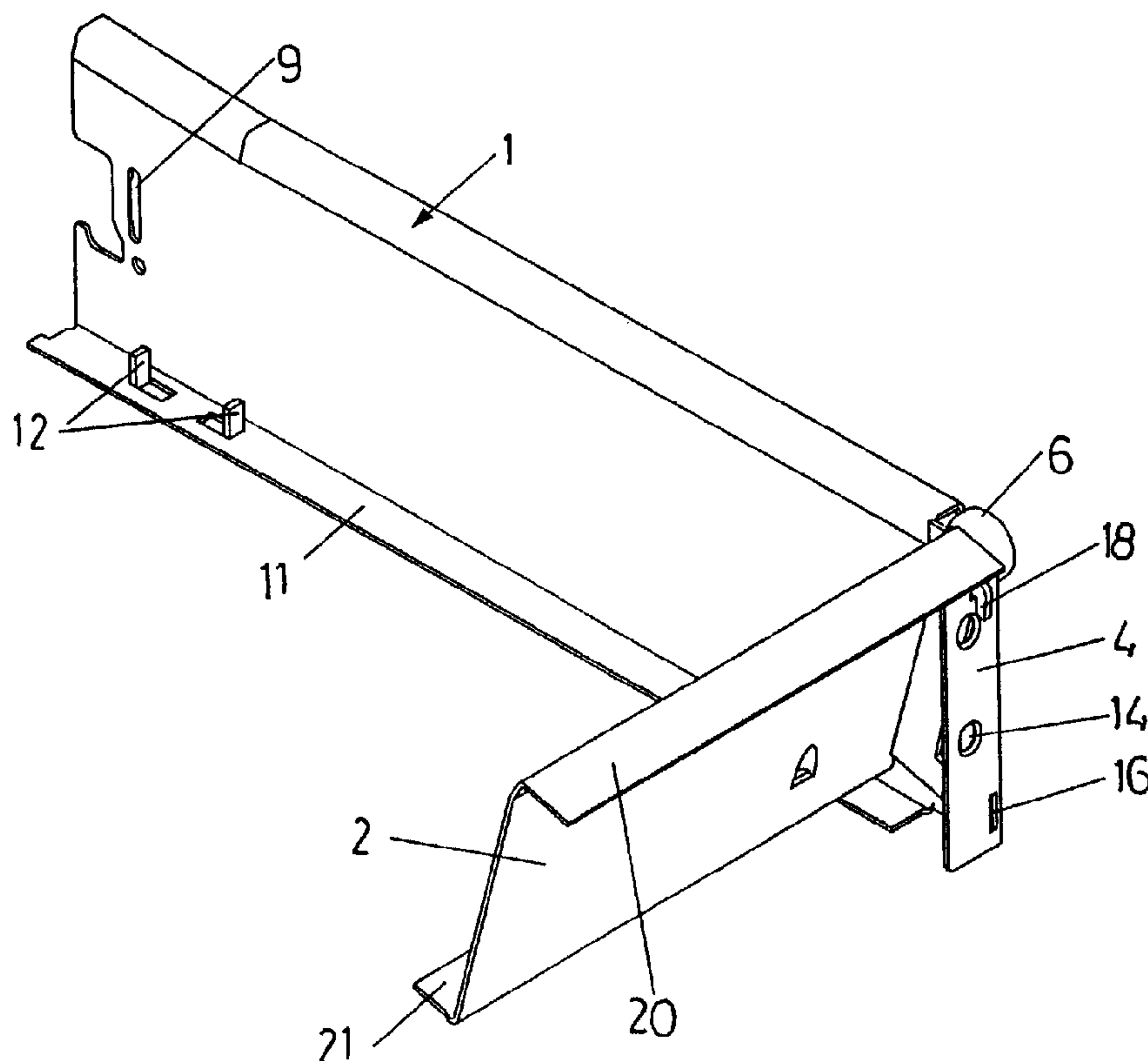




(86) Date de dépôt PCT/PCT Filing Date: 1993/06/01
(87) Date publication PCT/PCT Publication Date: 1994/01/20
(45) Date de délivrance/Issue Date: 2001/09/11
(85) Entrée phase nationale/National Entry: 1994/12/28
(86) N° demande PCT/PCT Application No.: AT 93/00092
(87) N° publication PCT/PCT Publication No.: WO 94/01019
(30) Priorité/Priority: 1992/07/02 (A 1351/92) AT

(51) Cl.Int.⁵/Int.Cl.⁵ A47B 88/00
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(54) Titre : ENSEMBLE DE CONSTRUCTION DE TIROIR
(54) Title: DRAWER CONSTRUCTION SET



(57) Abrégé/Abstract:

A drawer construction set includes two metal drawer frames, each having a rear end thereof a flange extending inwardly. The flange has an upwardly open slot and a lower slot. A metal drawer rear wall has at opposite ends thereof respective bent webs, each having an upper hook and a lower positioning lug. The hooks of the rear wall are fittable into the upwardly open upper slots of the drawer frames to suspend the rear wall therefrom. The positioning lugs of the rear wall then are fittable into the lower slots of the drawer frames, to prevent vertical displacement of the rear wall relative thereto.



ABSTRACT

A drawer construction set includes two metal drawer frames, each having a rear end thereof a flange extending inwardly. The flange has an upwardly open slot and a lower slot. A metal drawer rear wall has at opposite ends thereof respective bent webs, each having an upper hook and a lower positioning lug. The hooks of the rear wall are fittable into the upwardly open upper slots of the drawer frames to suspend the rear wall therefrom. The positioning lugs of the rear wall then are fittable into the lower slots of the drawer frames, to prevent vertical displacement of the rear wall relative thereto.

Drawer construction set

The invention relates to a drawer construction set comprising two metal drawer frames, which are provided at their rear ends with inwardly directed flanges and have support webs for a base plate, the metal drawer rear wall being provided with hooks which can be suspended in slots in the drawer frames.

With drawer construction sets of this type, the frames and the drawer rear wall have to be screwed to one another, which is clearly very time-consuming, especially in the case of very large numbers in the run of drawer production. Generally, the rear wall is in this case made from a wood material, for example a chipboard. Metal rear walls are used in particular in office furniture, for example filing cabinets. Here too, the drawer frame is connected by screws or rivets. In many cases no base plate is provided.

Furthermore, drawer construction sets are known in which the drawer frames and the rear wall can be connected without a tool, simply by pushing them together. These construction sets enable assembly to be very rapid and simple. The individual components of construction sets of this type are, however, made from synthetic material in accordance with the known prior art. Examples of such construction sets can be found in GB-A-2 087 715 and GB-A-2 101 879.

However, the strength and thus the loading capacity of drawers which have been produced using such construction sets is rather limited, and furthermore separate pull-out guide rails are required to enable the drawer to run in a pull-out guide fitting.

It is the object of the invention to provide a drawer construction set of the type mentioned at the outset, having metal drawer frames and in which it is possible to connect the metal drawer frames to a rear wall rapidly. Furthermore, it should be possible to connect these parts without a tool.

The object according to the invention is achieved in that the slots are arranged in the flanges such that the drawer rear wall can be anchored on these flanges, and in that the drawer rear wall has, in a manner known per se, positioning lugs which project into corresponding openings in the flanges and prevent vertical displacement of the drawer rear wall with respect to the drawer frames.

Advantageously, the positioning lugs are constructed in the manner of a web and the openings are slot-shaped, with the slots in which the hooks can be suspended being upwardly open in order to facilitate suspension of the rear wall in the drawer frames.

The hooks and the positioning lugs are advantageously constructed on bent-away marginal webs of the rear wall. In this case, the rear wall advantageously has an upper horizontal web, as a result of which a stable box-type profile is formed together with the marginal webs.

In order to improve the stability of the drawer, it is advantageously provided for the drawer rear wall to have, above a support web for the base plate, a groove-type profile in which the base plate is received without play and for the vertical web of the profile to have a step.

A further embodiment of the invention provides for the drawer rear wall to have at least one half-knob below which

the base plate latches in. With this embodiment, the base plate is held between the support web and the holding knob and is prevented from being raised away. Instead of a holding knob, a horizontal holding tab punched out of the drawer rear wall and advantageously projecting into an end-side groove of the base plate can be provided.

A further embodiment provides for the drawer rear wall to have outwardly projecting holding flanges for a drawer rail, the width of the holding flanges being at least approximately the same as the width of the drawer frames. A construction set of this type enables a rail to be mounted without additional holding aids.

Two embodiments of the invention will be described below in detail with reference to the figures of the attached drawings.

Fig. 1 shows an illustration of a drawer frame according to the invention; Fig. 2 shows an illustration of half of a rear wall according to the invention; Fig. 3 shows an illustration of the half rear wall according to a further embodiment of the invention; Fig. 4 shows an illustration of a drawer frame and a rear wall while the rear wall is being suspended; Fig. 5 shows an illustration of a drawer frame, the rear wall and a base plate while the base plate is being suspended; Fig. 6 shows an illustration of the mounted drawer construction set; Fig. 7 shows an illustration of the mounted drawer construction set according to a further embodiment of the invention; Fig. 8 shows an illustration of a drawer, one side drawn as being cut away; and Figs. 9 to 13 show various profiles of the rear wall in the region of the base plate.

The drawer frame 1 is provided at the rear with a bent-away

flange 4 which serves to secure a drawer rear wall 2 or 3. At the front, the drawer frame 1 is provided with punched-out portions 9 which serve to secure the holding apparatus 5 of a drawer front panel 10.

Furthermore, the drawer frame 1 has a support web 11 for a base plate 8. Punched out of the support web 11 are positioning tabs 12 which engage in corresponding holes in the base plate 8 and prevent the base plate 8 from being undesirably displaced.

The drawer frame 1 furthermore has an upper horizontal web 12 [sic] which serves as a running web for the carcass-side running roller of a pull-out guide fitting or for running rollers of a running carriage. A running roller 6 is mounted on the drawer frame at the flange 4.

The flange 4 has holes 14 which enable a conventional drawer rear wall, for example made from a wood material, to be screwed to the drawer frame 1.

Furthermore, the flange 4 is provided with an upwardly open slot 15 and a lower closed slot 16 which serve to mount a drawer rear wall 2, 3 according to the invention.

The drawer rear wall 2 has on each side a marginal web 17 which is bent away towards the rear. Integrally formed on the marginal webs 17 is, at the top, a hook 18 and, at the bottom, a web-shaped projection which serves as a positioning lug 19.

Furthermore, the drawer rear wall 2, 3 has an upper horizontal web 20, a lower support web 21 for the base plate 8 and a punched-out holding knob 22.

In order to increase the rigidity of the drawer rear wall, the latter is provided directly above the support web 21 with a groove-like profile 26 into which the base plate 8 can be pushed. The vertical web 27 of the profile 26 can have a step 28, so that base plates 8 of different thickness can be pushed into the profile 26.

When the drawer construction set is assembled, first the drawer rear wall 2, 3 is suspended by means of the hook 18 in the slot 15, as shown in Fig. 4, and is then pivoted until the web-shaped positioning lug 19 projects through the slot 16. Then, the base plate 8 is laid on the support webs 11, 21 and pushed under the holding knob 22.

Finally, a front panel 10 is mounted in conventional manner by means of the holding apparatus 5.

The drawer rear wall 3 according to the embodiment of Fig. 3 has lateral holding flanges 23 for a drawer rail 7. Each holding flange 23 has a laterally open slot 24, through which a screw 25 or the like for securing the rail 7 projects. At the other end, the rail 7 is secured to the front panel 10 in conventional manner. The width of the holding flanges 23 corresponds approximately to the width of the drawer frames 1, that is to say to the width of the horizontal webs 13.

Instead of the holding knob 22, there can be punched out of the drawer rear wall 2, 3 a horizontal web which projects into a groove on the end side of the base plate 8. This also prevents the base plate from being raised away.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A drawer construction set to be employed to assemble a drawer, the drawer construction set comprising: two metal drawer frames to be used to form sides of a drawer, each said drawer frame having at a rear end thereof a flange extending inwardly relative to the drawer when assembled, said flange having an upwardly-open upper slot and a lower slot, and each said drawer frame having a support web for support of a base plate of the drawer; a metal drawer rear wall having at opposite lateral ends thereof respective bent webs, each said web of said rear wall having an upper hook and a lower positioning lug; and said hooks of said rear wall being fittable into said upwardly-open upper slots of said drawer frames, thereby to enable said rear wall to be suspended from said drawer frames, and said positioning lugs of said rear wall being fittable into said lower slots of said drawer frames, thereby to prevent vertical displacement of said rear wall relative to said drawer frames.

2. A drawer construction set as claimed in claim 1, wherein said bent webs at said opposite ends of said rear wall extend rearwardly thereof in directions transverse thereto.

3. A drawer construction set as claimed in claim 2, wherein said hook and said positioning lug of each said bent web extend rearwardly thereof.

4. A drawer construction set as claimed in claim 1 or 2, wherein said positioning lug of each said bent web extends coplanar therewith.

5. A drawer construction set as claimed in any one of claims 1 to 4, wherein said rear wall has at least one forwardly extending protrusion to fit over the base plate of the drawer.

6. A drawer construction set as claimed in claim 5, wherein said rear wall further has a forwardly-extending support web positioned below said protrusion for support of the base plate of the drawer.

7. A drawer construction set as claimed in claim 6, wherein said rear wall has a groove-shaped profile located above said support web for receipt without play of a rear end of the base plate of the drawer.

8. A drawer construction set as claimed in claim 7, wherein said profile includes a vertical web having formed therein a step.

9. A drawer construction set as claimed in any one of claims 1 to 4, wherein said rear wall has a forwardly-extending support web for support of the base plate of the drawer.

10. A drawer construction set as claimed in claim 9, wherein said rear wall has a groove-shaped profile located

above said support web for receipt without play of a rear end of the base plate of the drawer.

11. A drawer construction set as claimed in claim 10, wherein said profile includes a vertical web having formed therein a step.

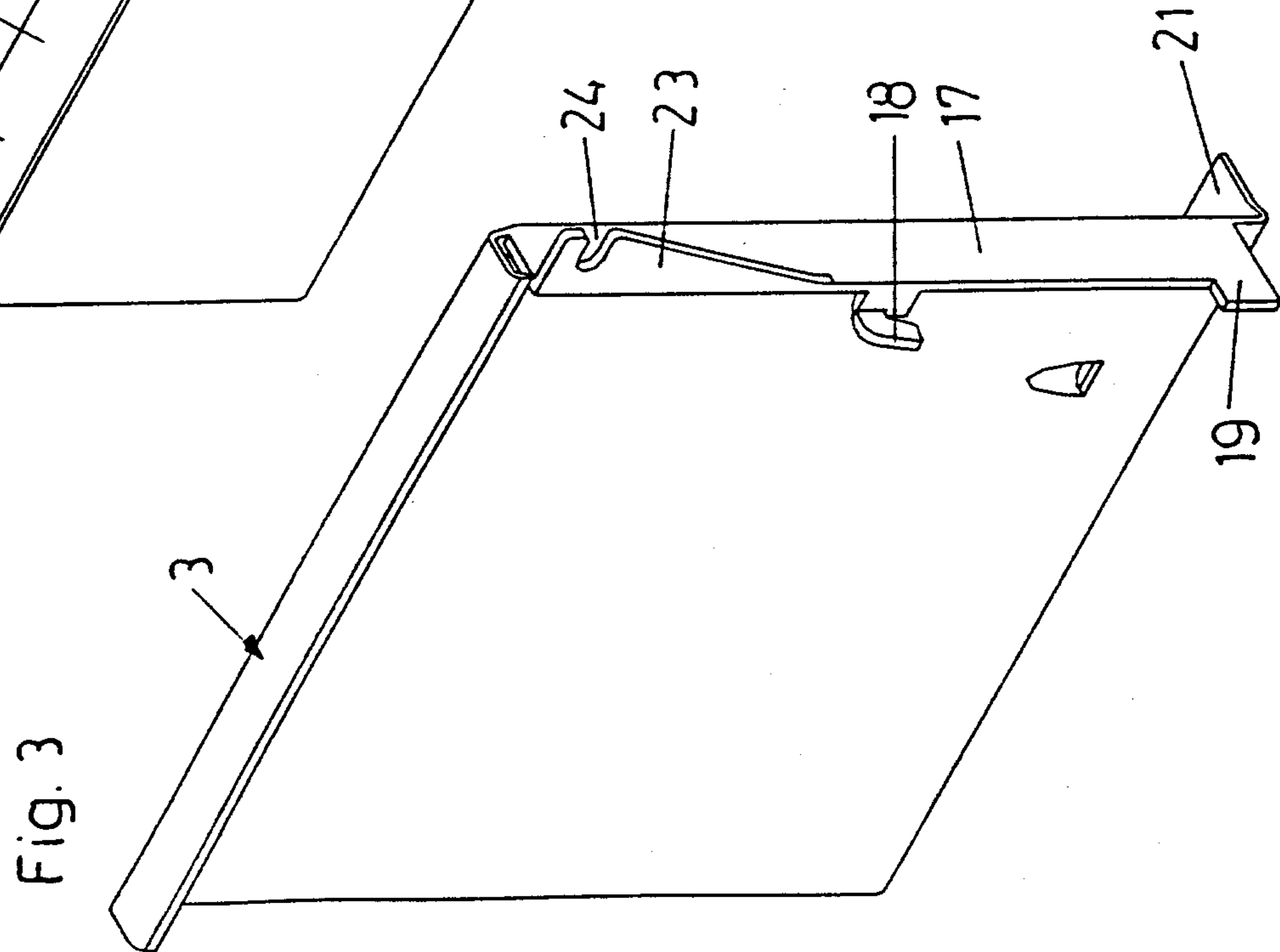
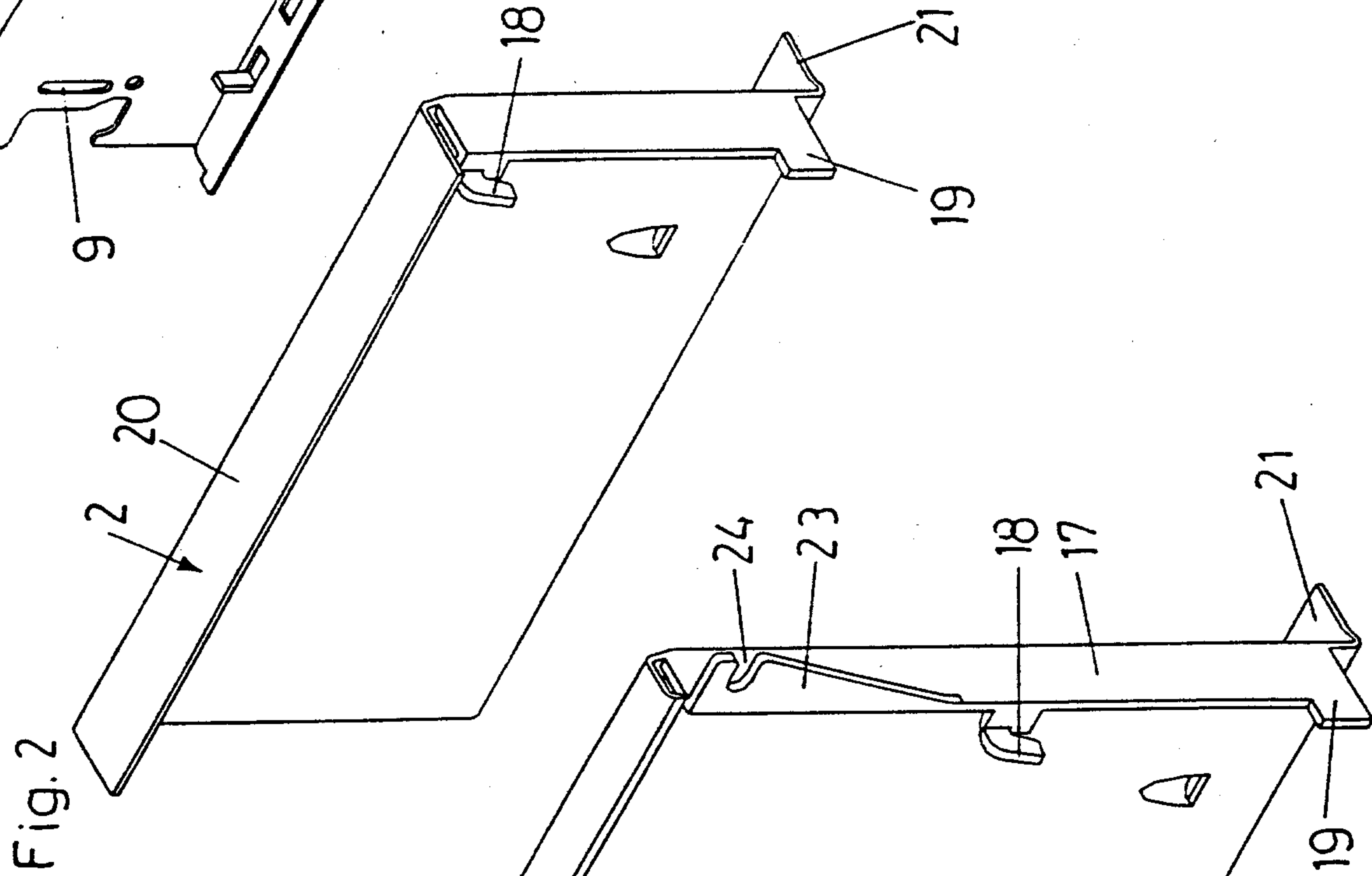
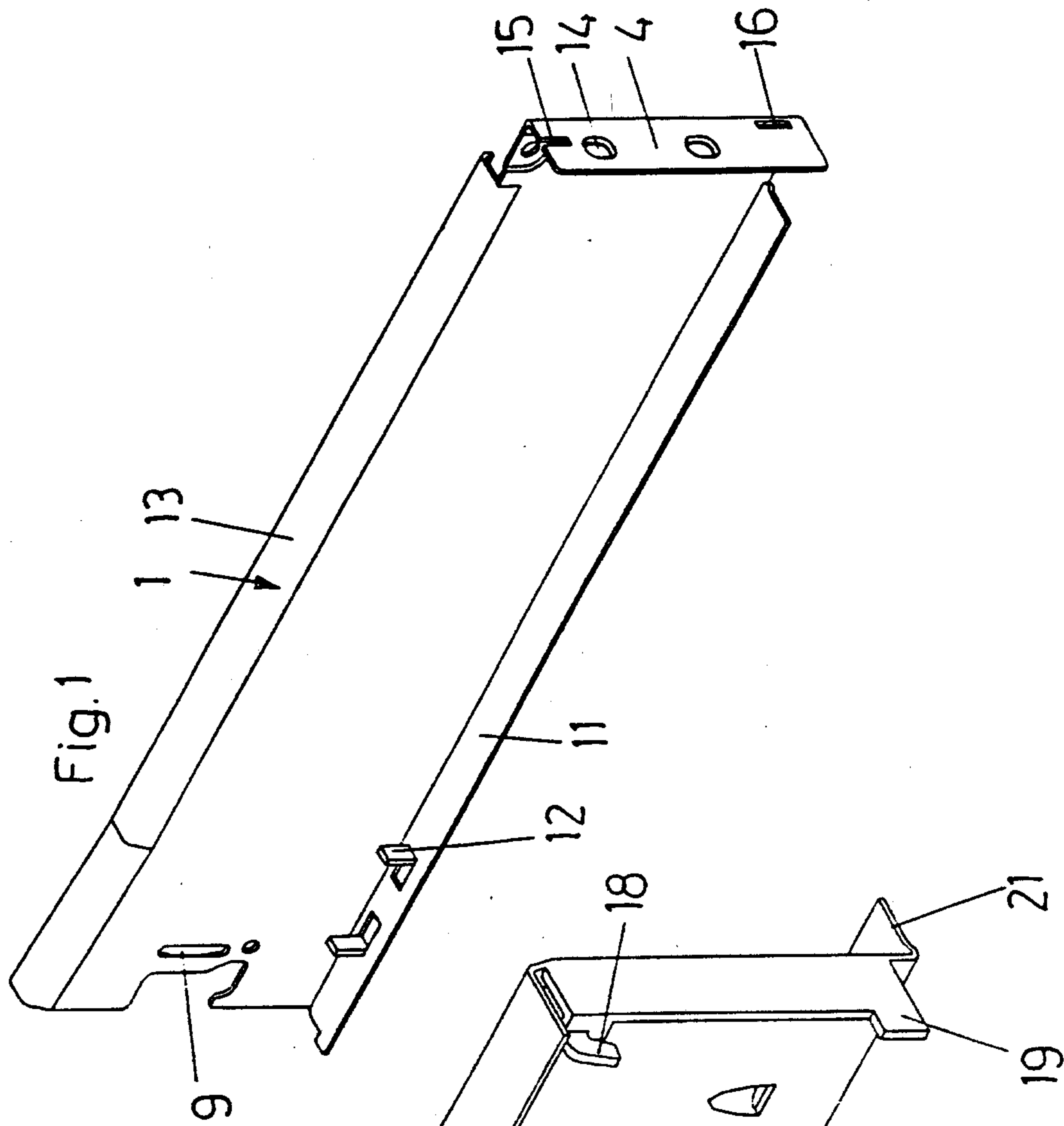
12. A drawer construction set as claimed in any one of claims 1 to 4, wherein said rear wall has, at each said end thereof, an outwardly-projecting holding flange for support of a drawer rail.

13. A drawer construction set as claimed in claim 12, wherein each said holding flange extends from the respective said bent web.

14. A drawer construction set as claimed in claim 13, wherein each said holding flange extends transversely of said respective bent web and parallel to said rear wall.

15. A drawer construction set as claimed in claim 12, wherein each said holding flange is positioned above the respective said hook.

16. A drawer construction set as claimed in claim 12, wherein each said holding flange has a width at least approximately the same as the width of the respective said drawer frame.



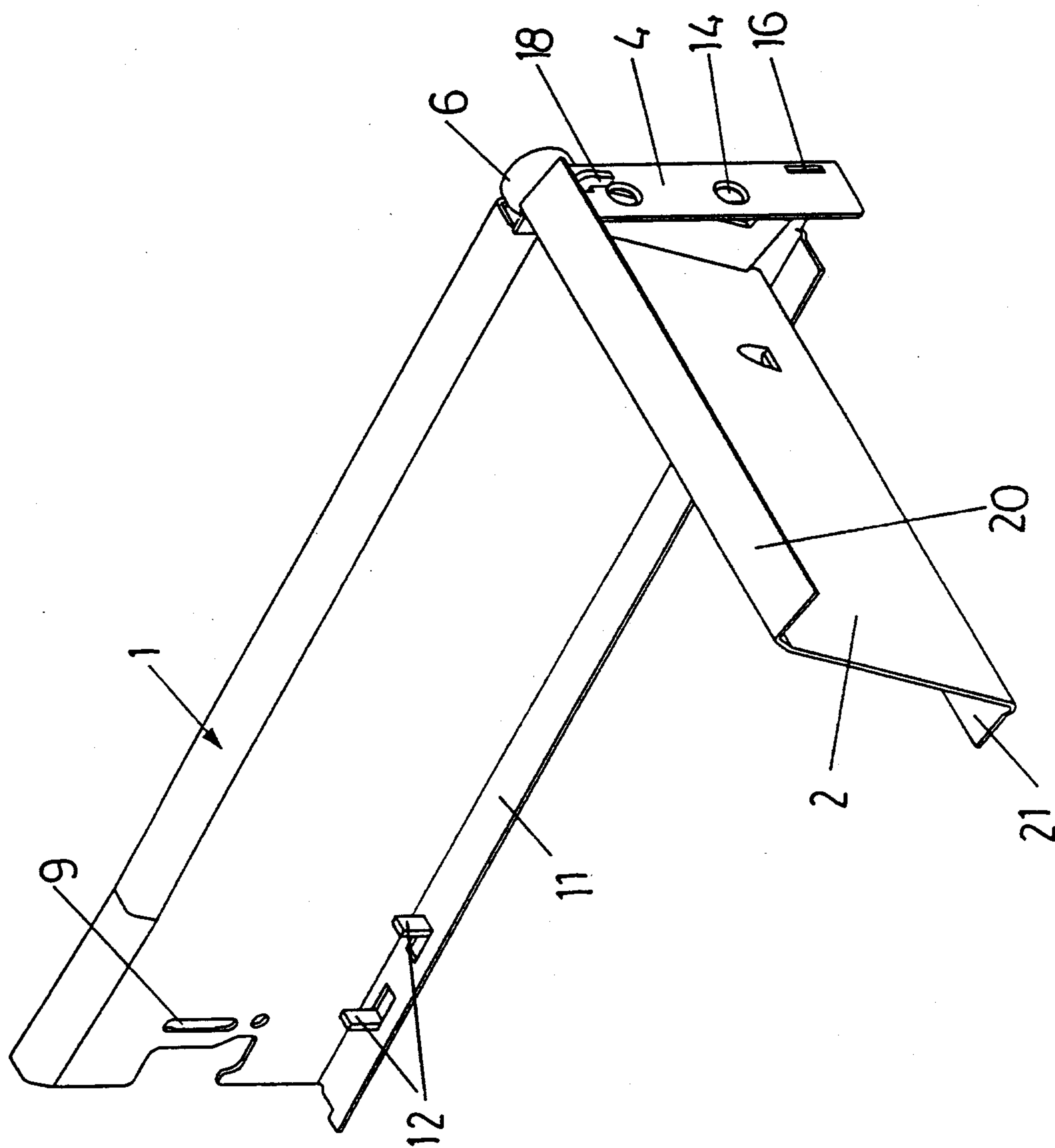
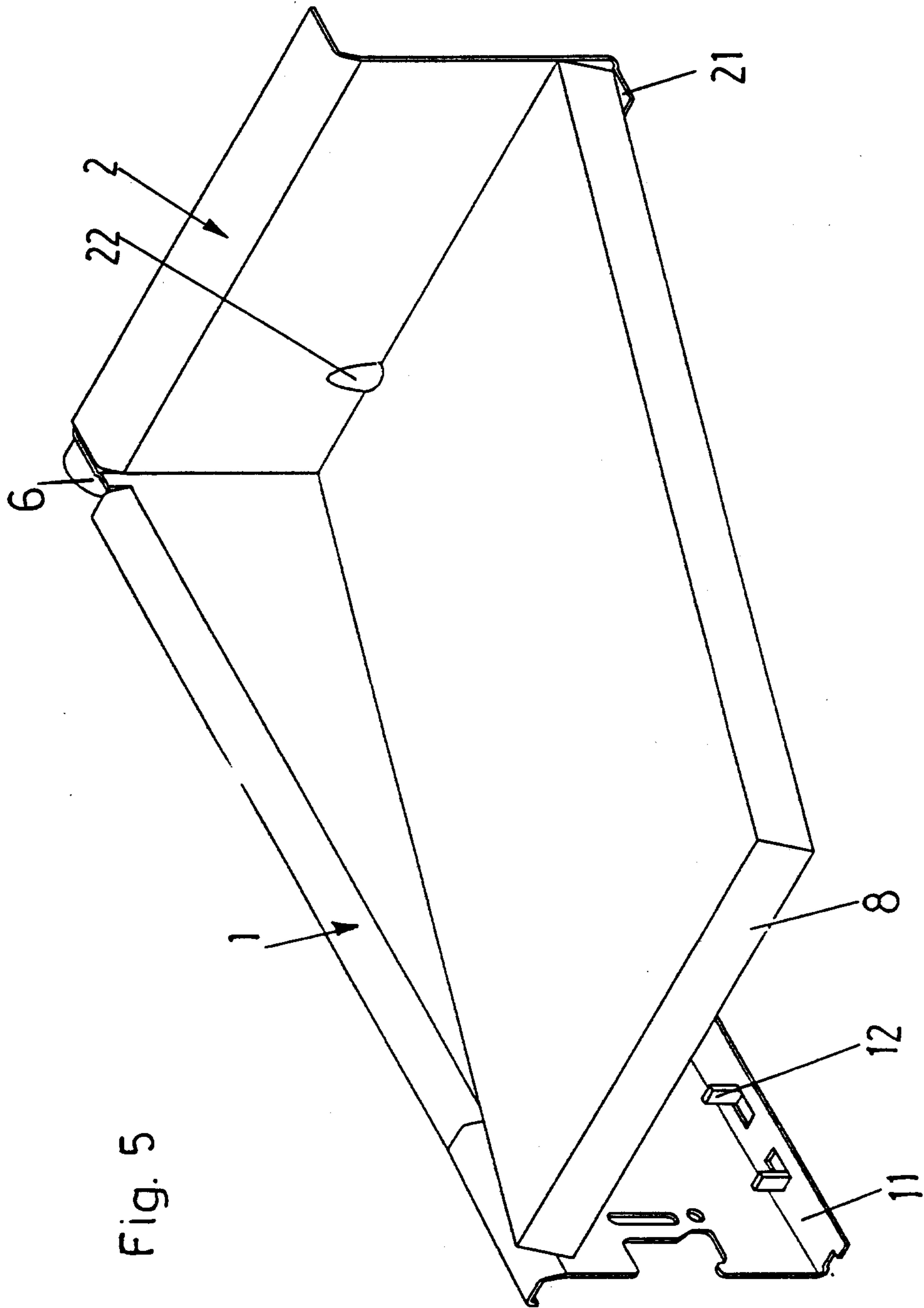


Fig. 4

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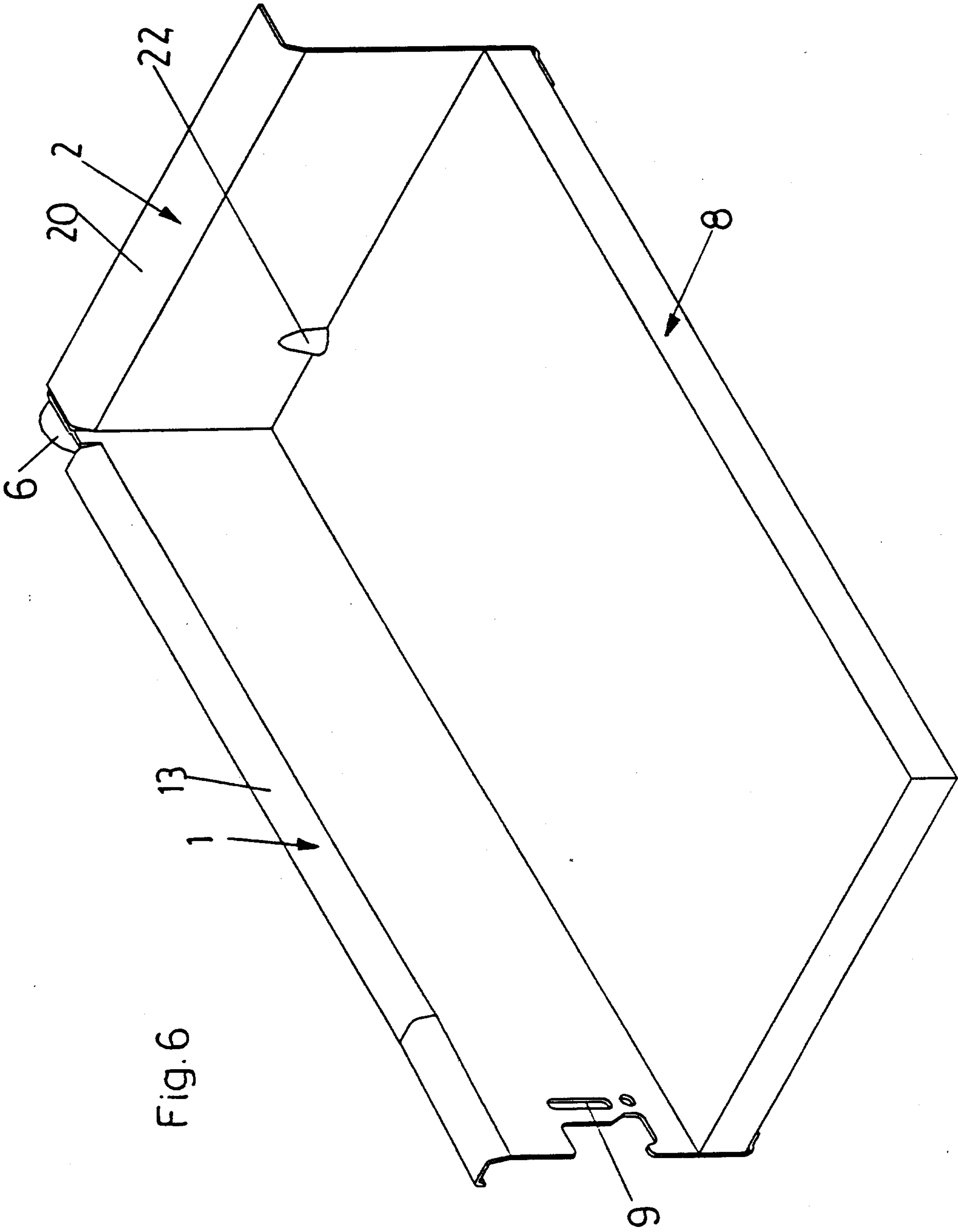


Fig. 6

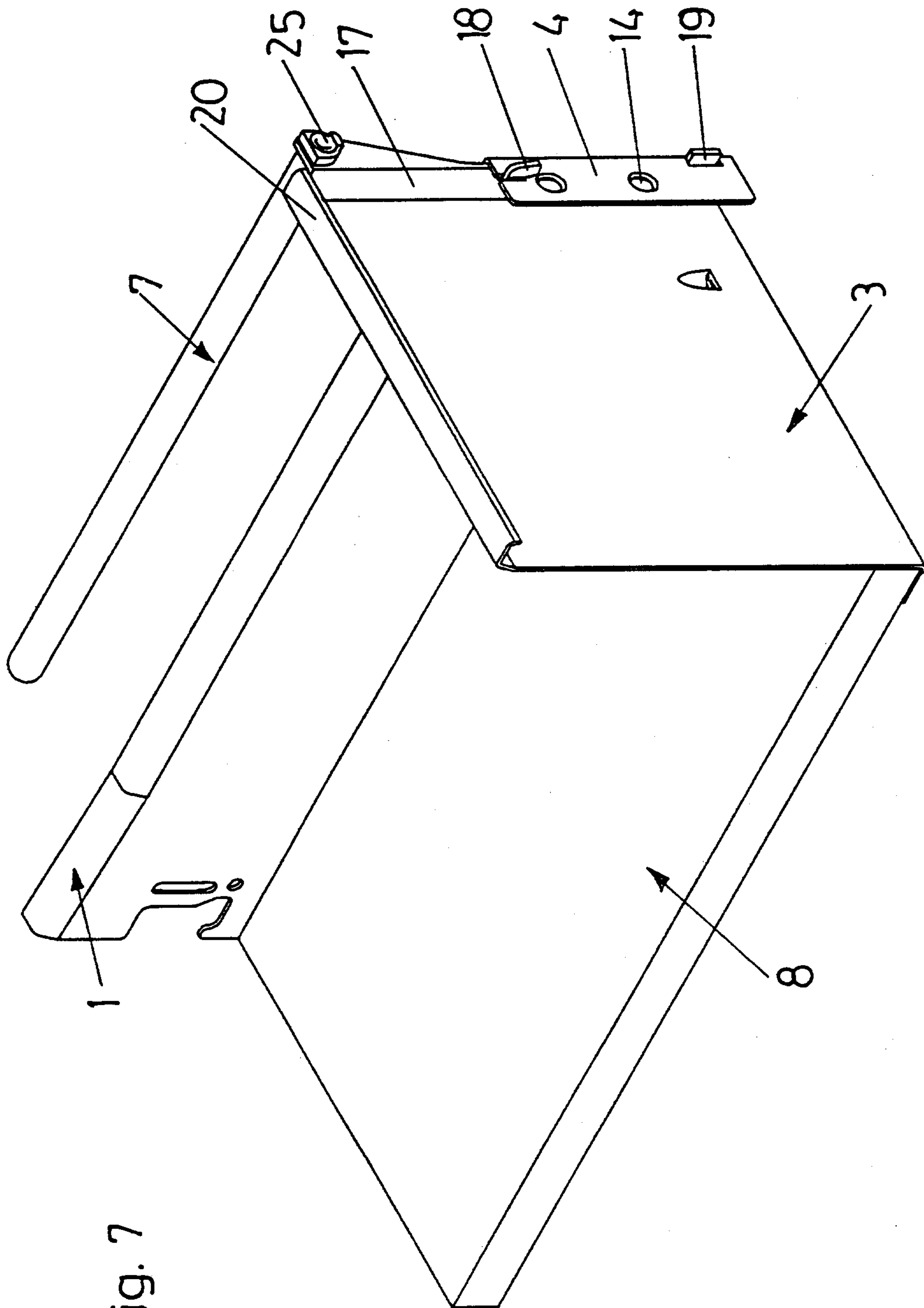


Fig. 7

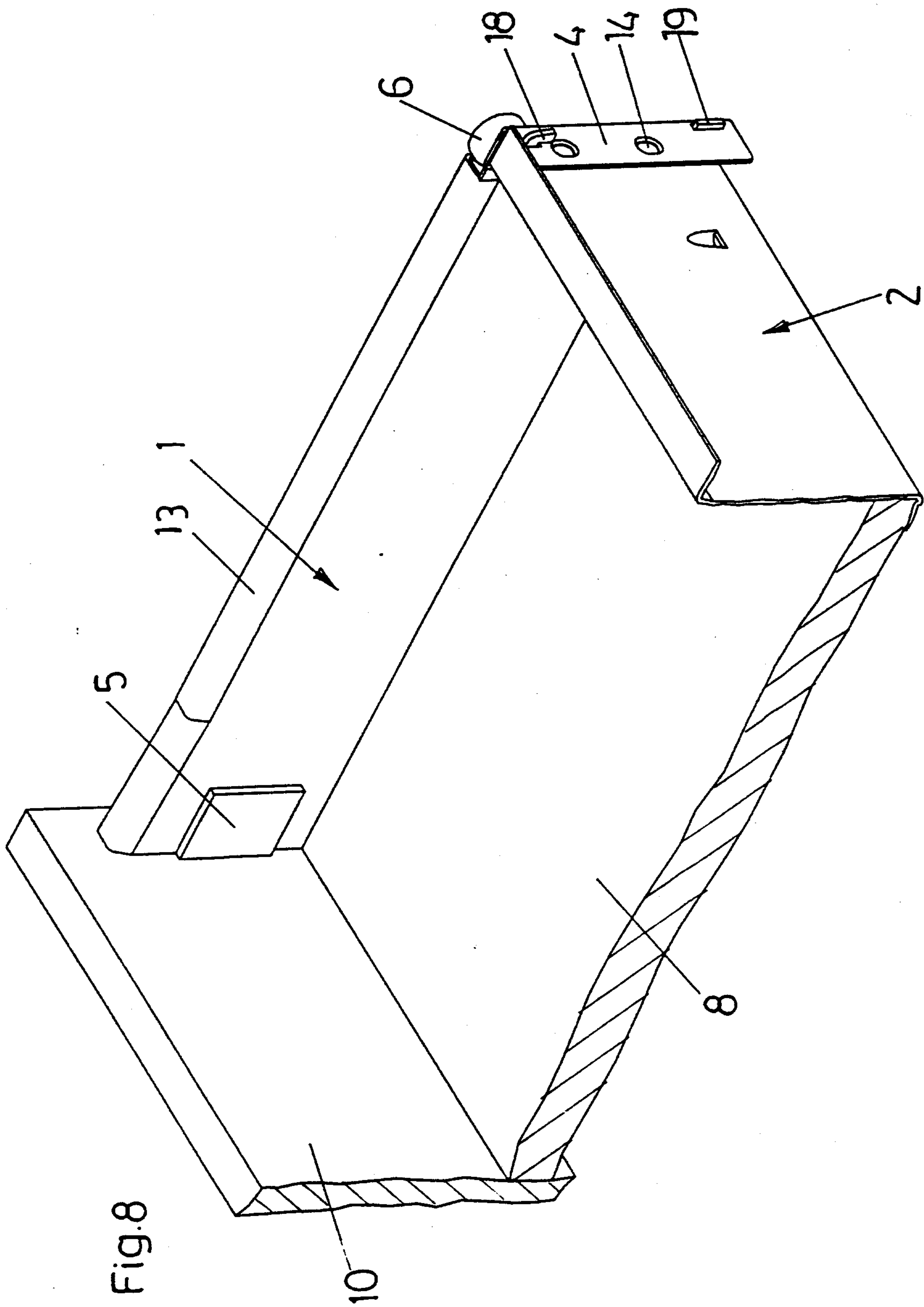


Fig. 9

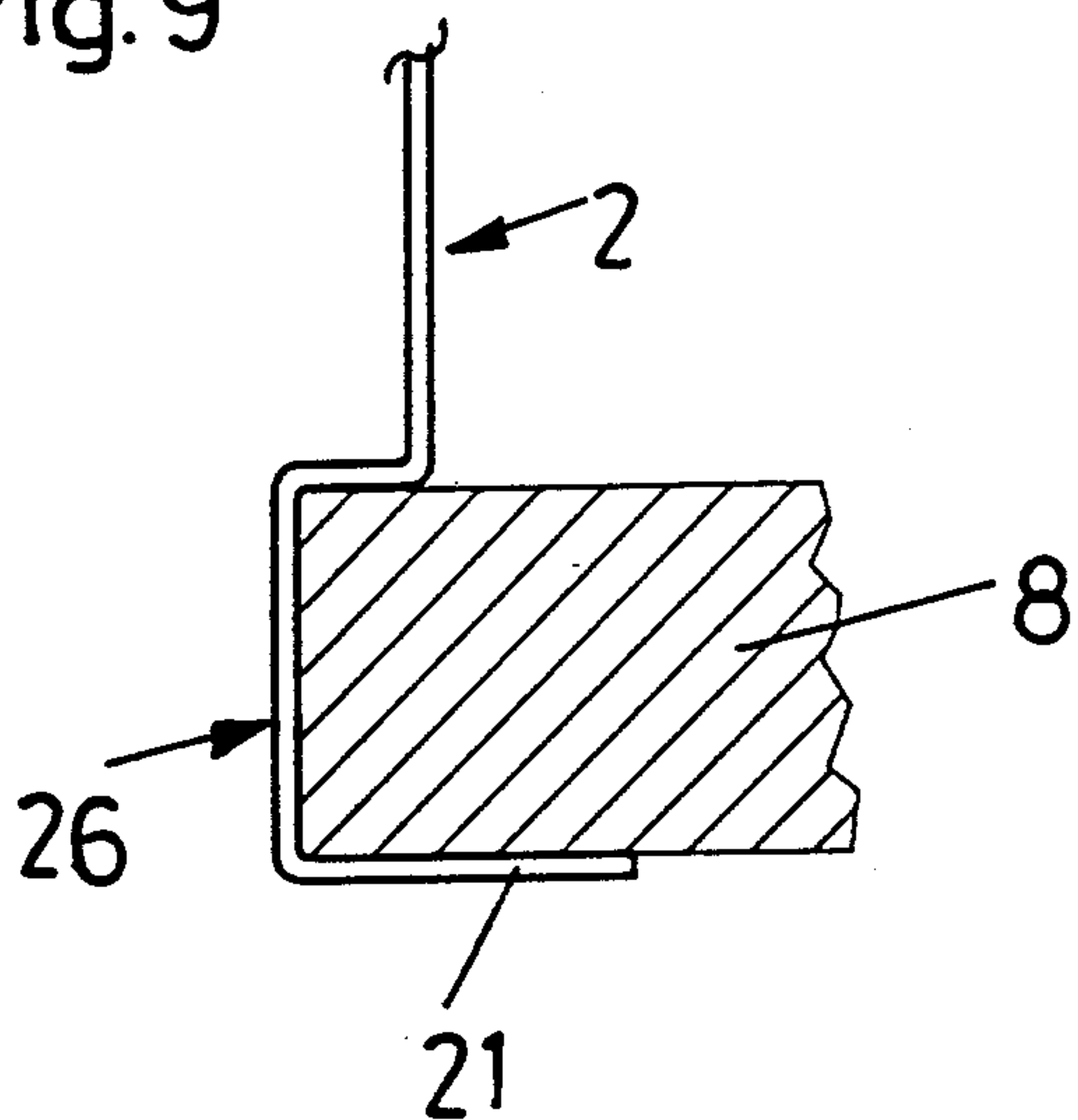


Fig. 10

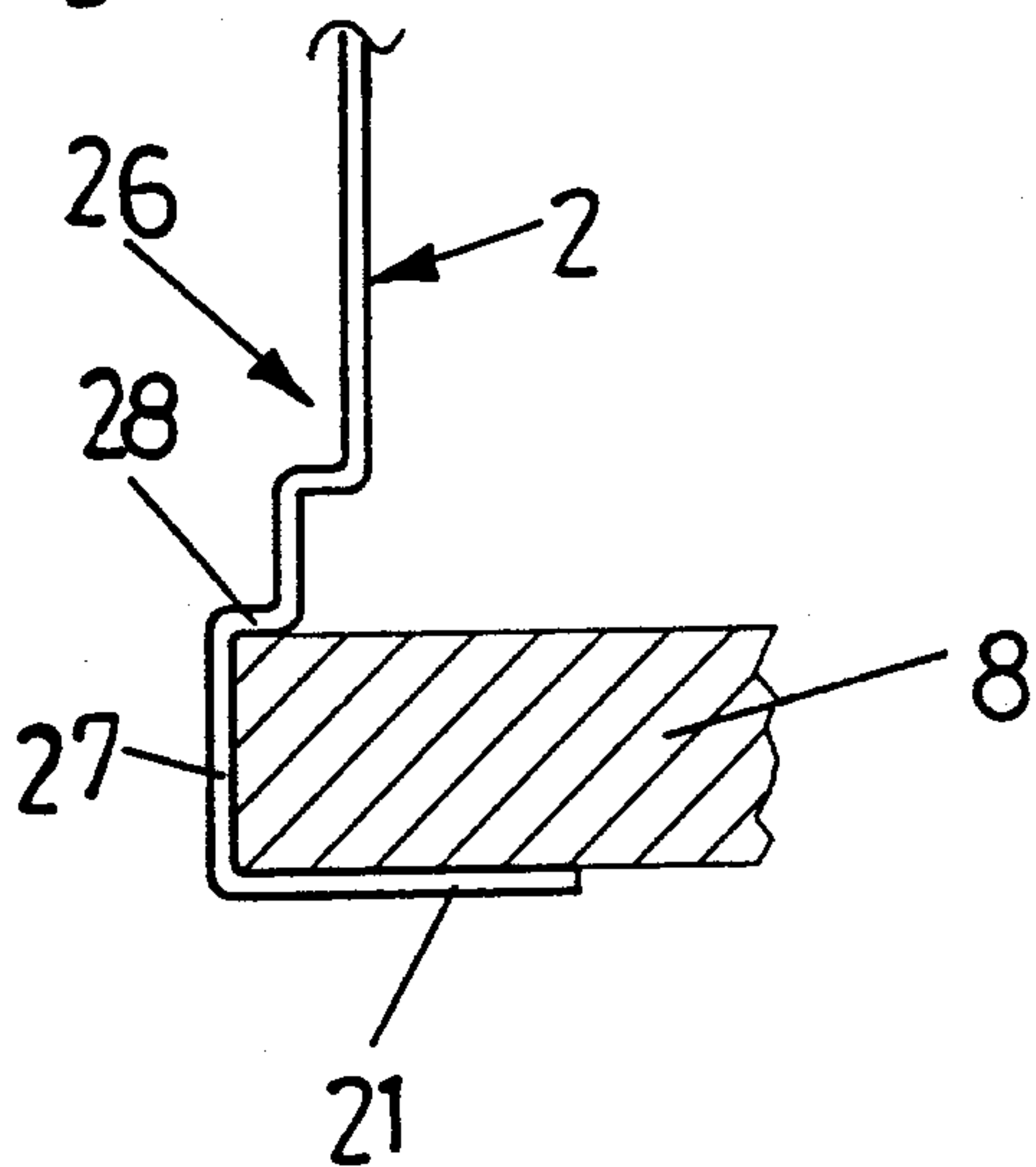


Fig. 11

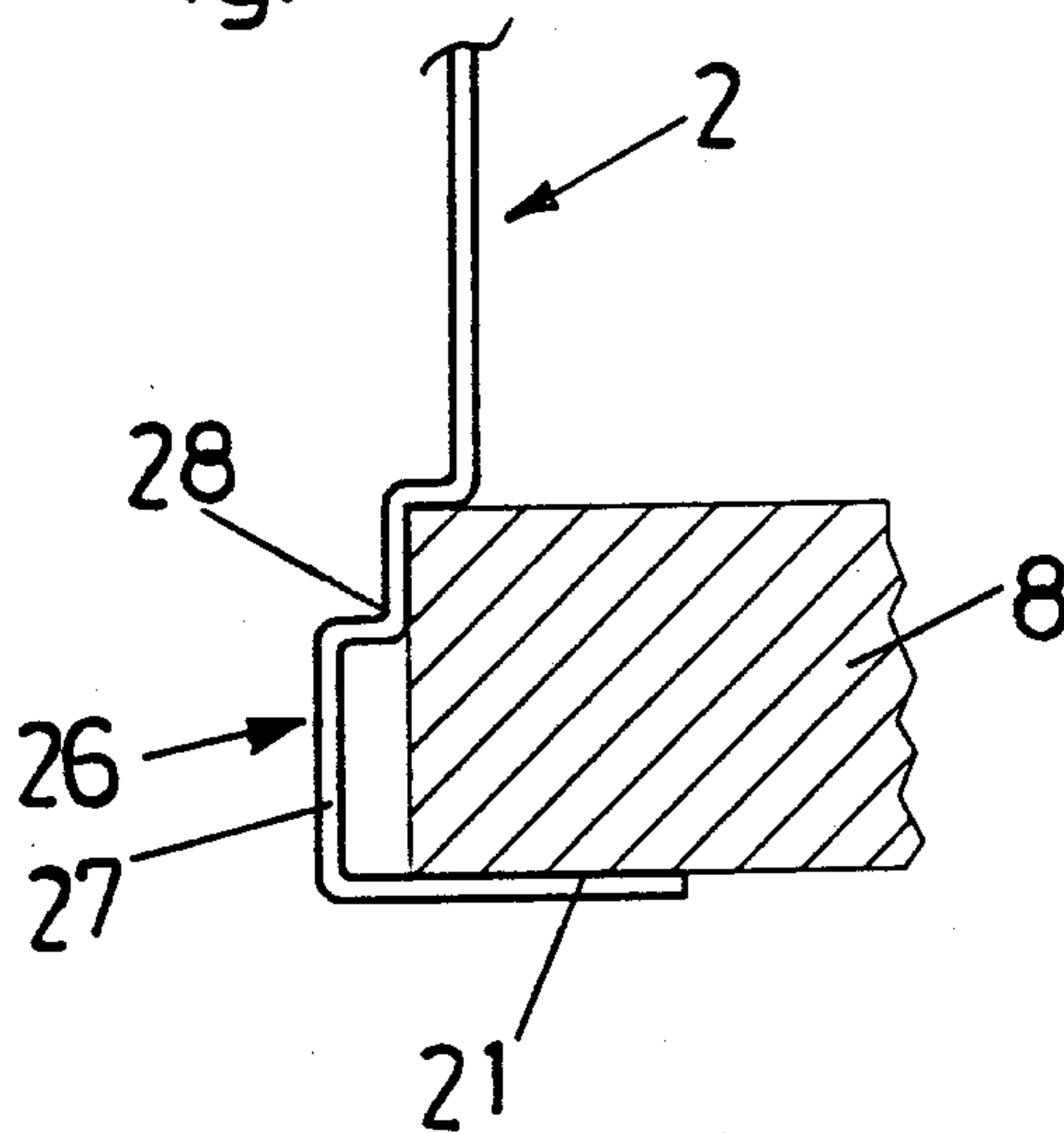


Fig. 12

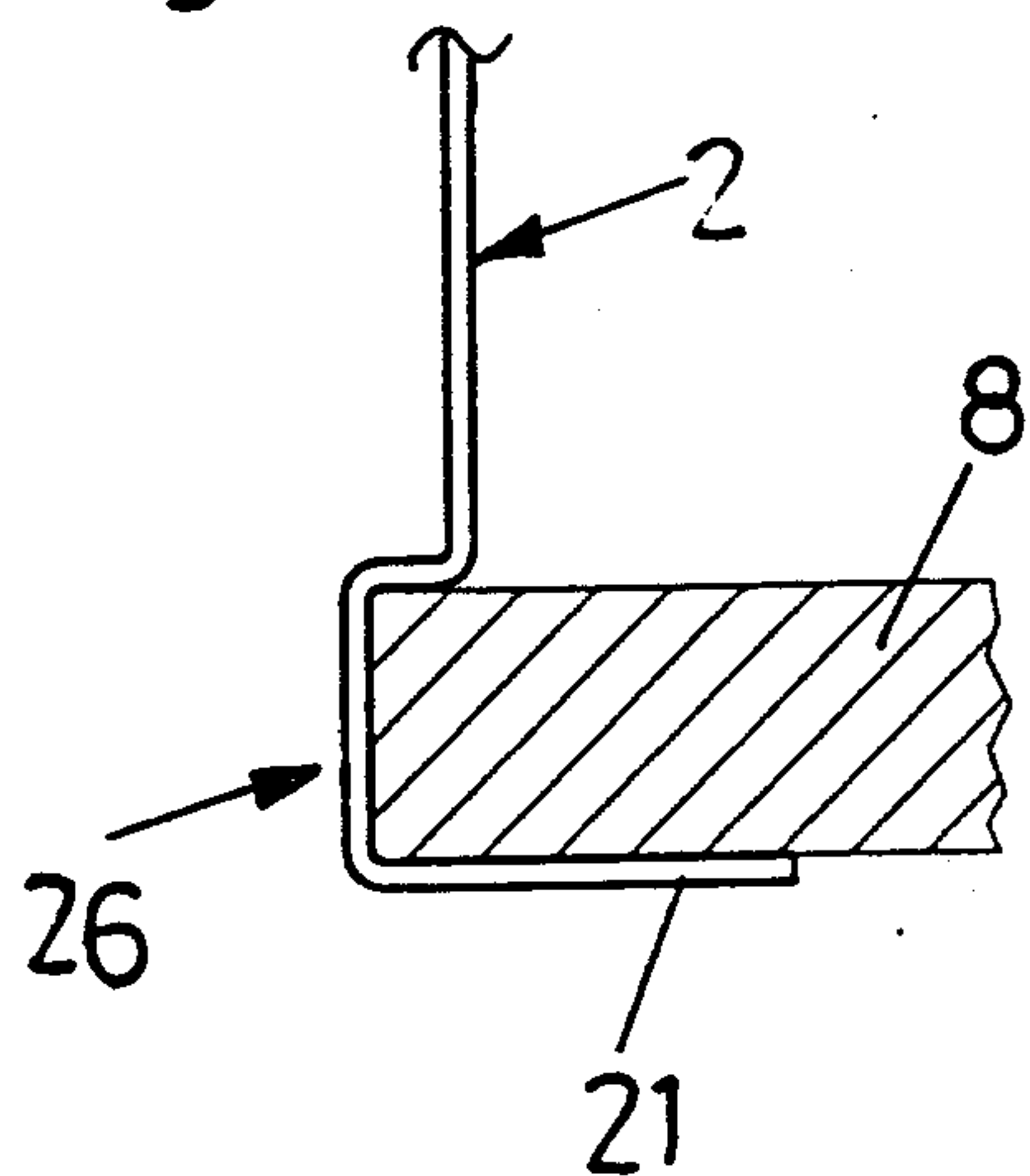


Fig 13

