

June 19, 1923.

1,459,324

L. J. DIEBOLD

SLIDING DRAWER AND LOCK

Filed June 29, 1922

2 Sheets-Sheet 1

Fig. 1.

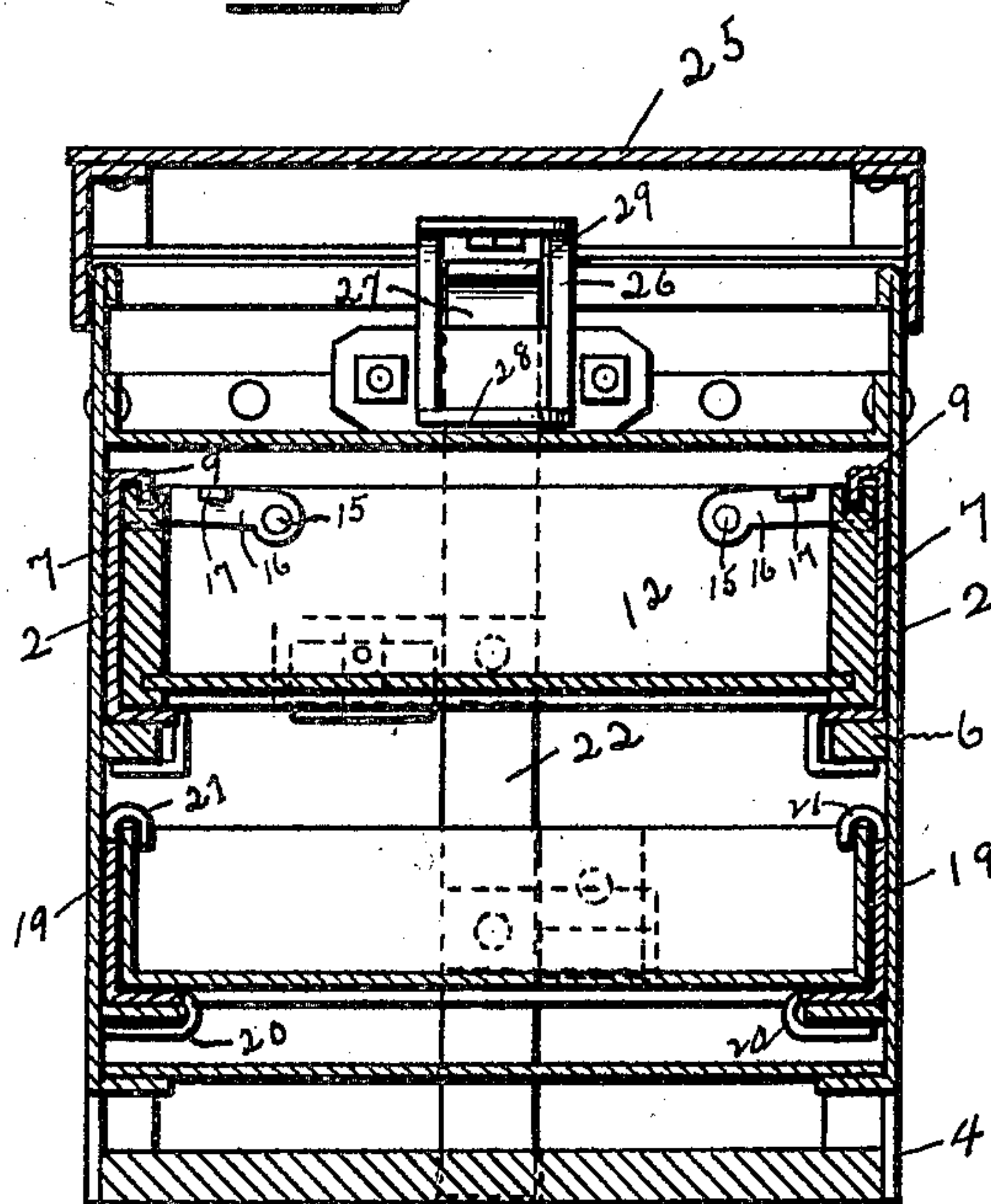


Fig. 2.

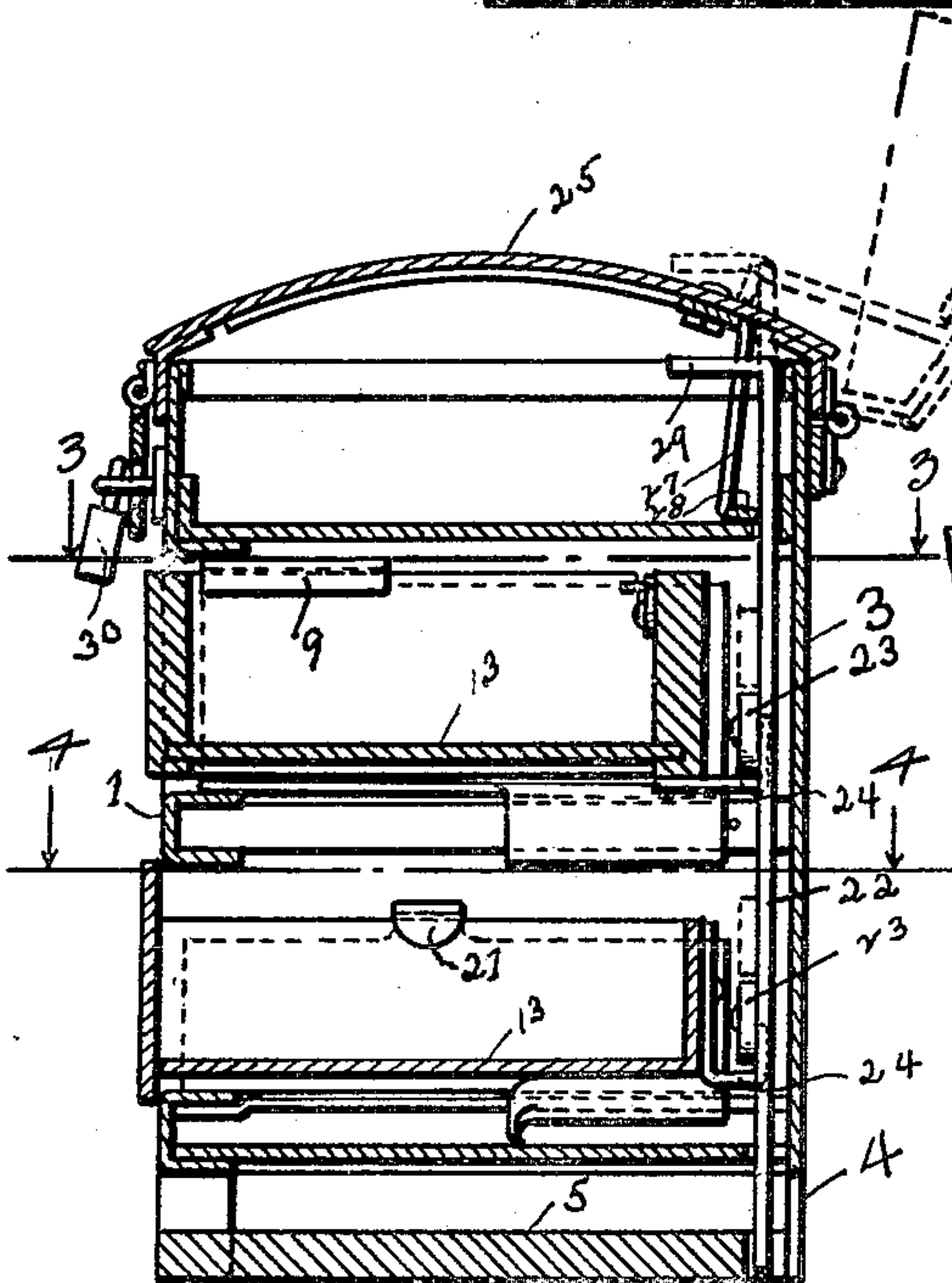
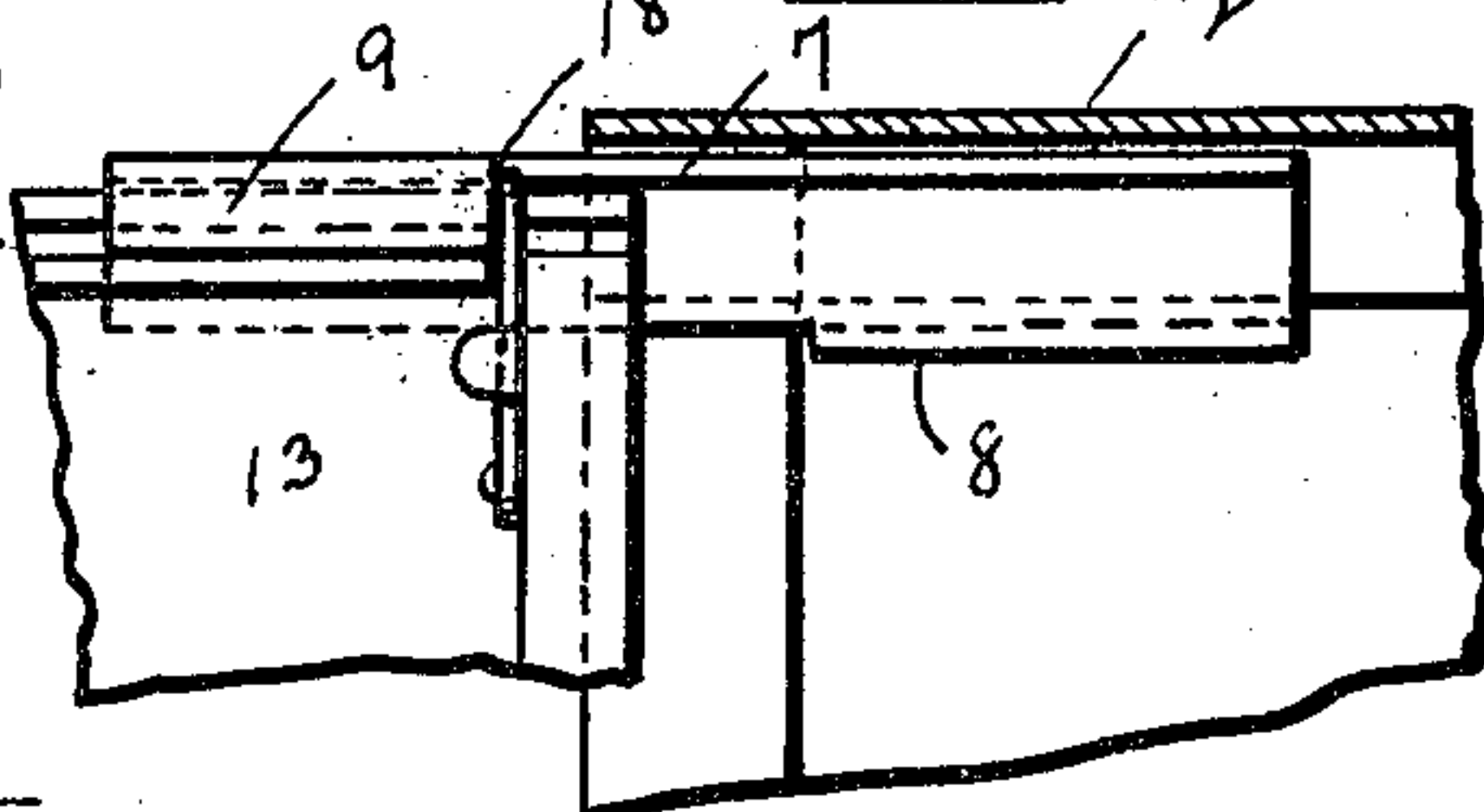


Fig. 3.



Inventor

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By

Attorney

June 19, 1923.

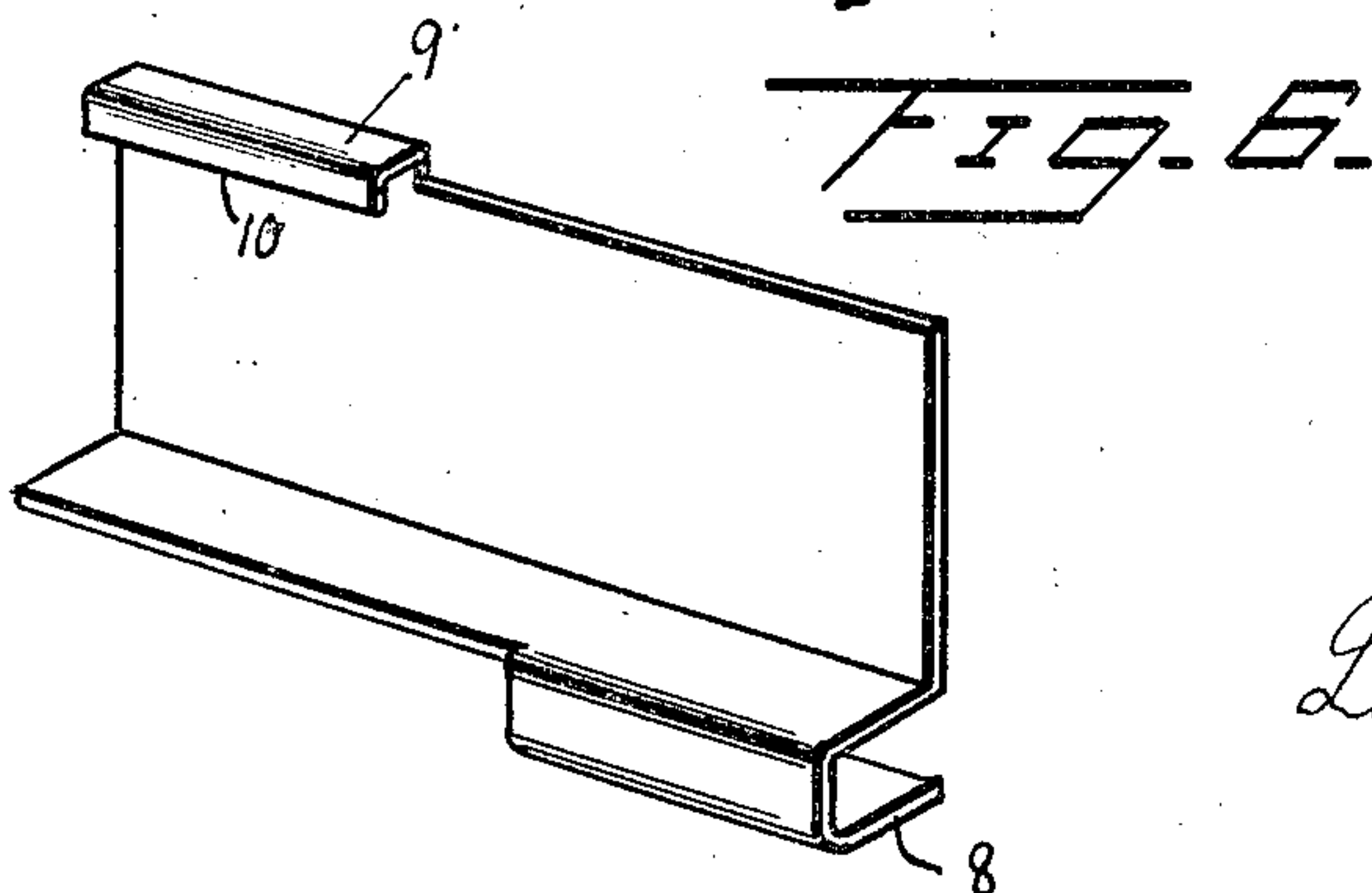
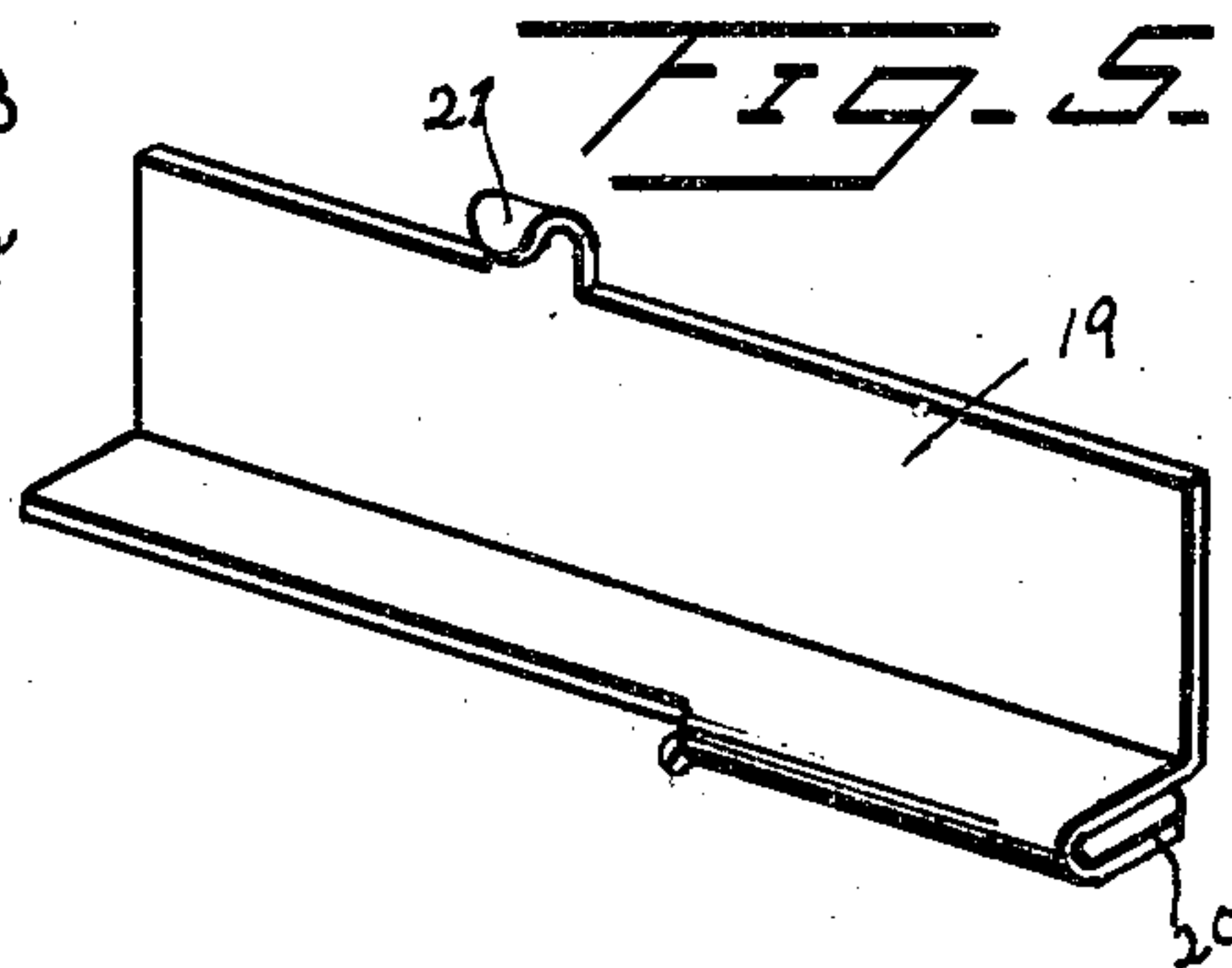
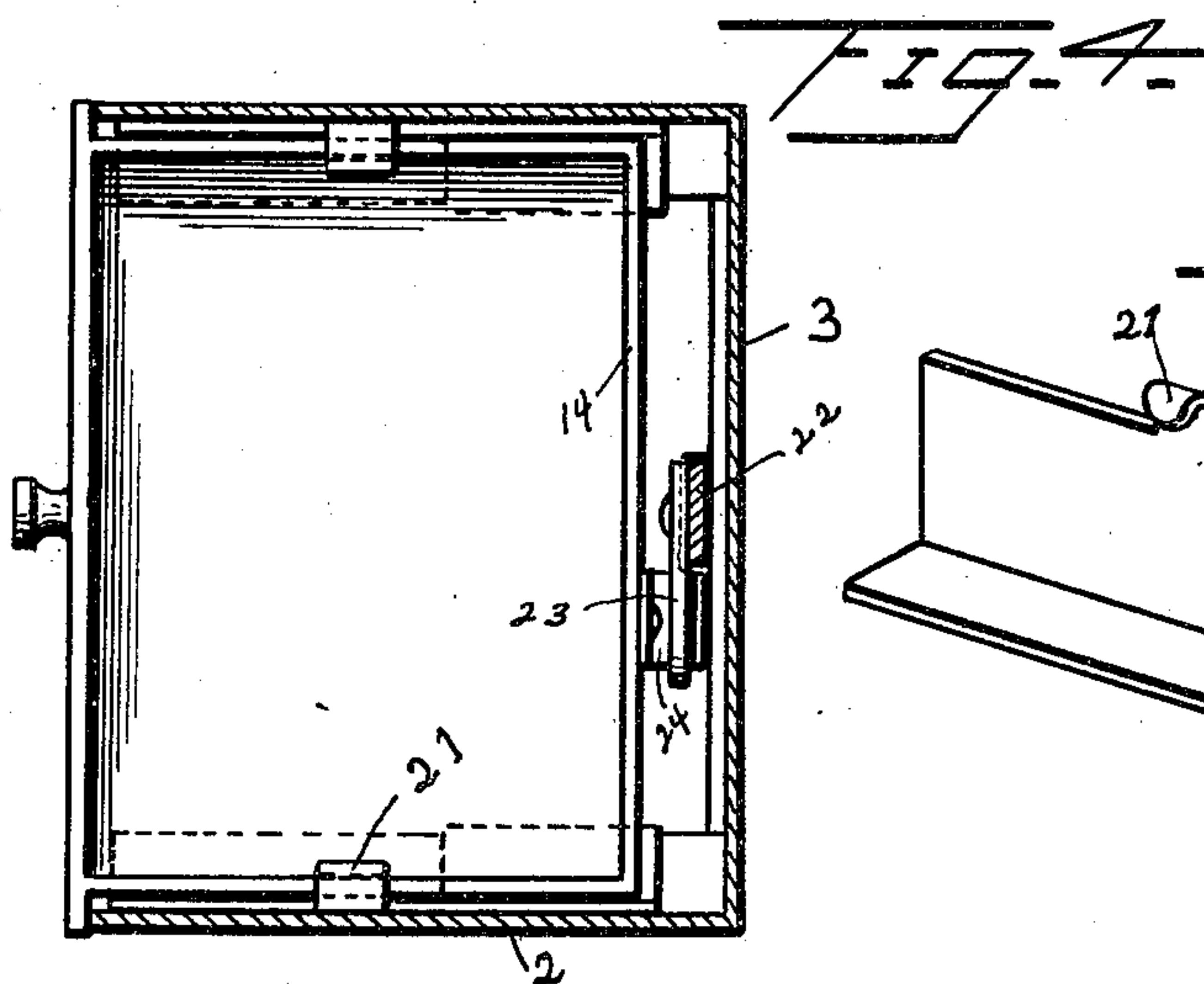
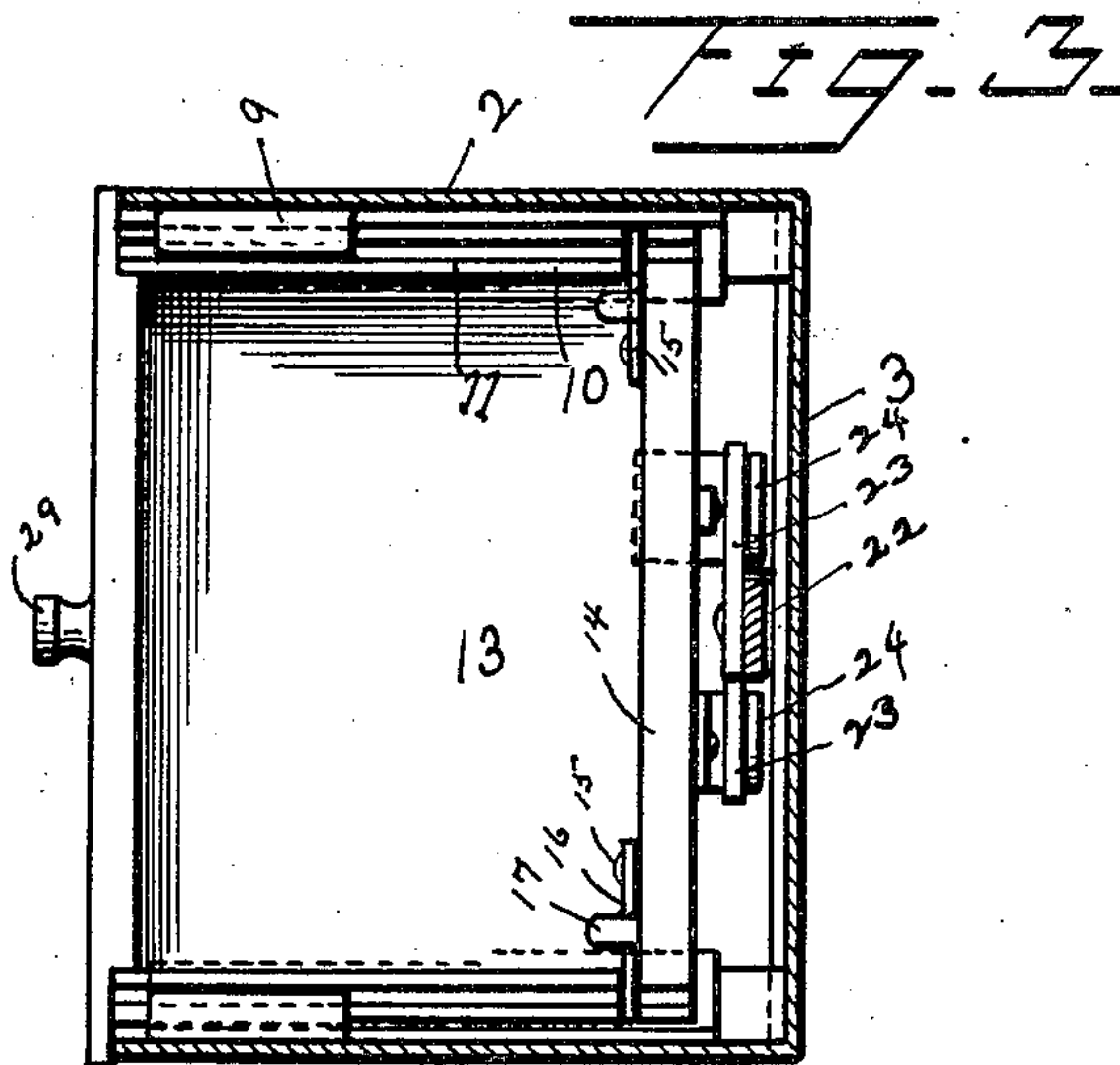
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2 Sheets-Sheet 2



Inventor,

Leo J. Diebold

Patented June 19, 1923.

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UNITED STATES PATENT OFFICE.

LEO J. DIEBOLD, OF MOUNT VERNON, INDIANA.

SLIDING DRAWER AND LOCK.

Application filed June 29, 1922. Serial No. 571,818.

To all whom it may concern:

Be it known that I, LEO J. DIEBOLD, a citizen of the United States, residing at Mount Vernon, in the county of Posey and State of Indiana, have invented certain new and useful Improvements in a Sliding Drawer and Lock, of which the following is a specification.

This invention relates to improvements in sliding drawers and lock therefor.

The prime object of the invention is to provide a device of the above stated character having a series of sliding drawers so that the drawers can be arranged to hold tools of various kinds in an orderly manner so that each tool when desired to be used can be instantly found thus eliminating the loss of time usually required in searching through an ordinary tool box not equipped with sliding drawers.

A further object of my invention is to provide sliding drawers and locking mechanism therefor in connection with a tool box of the above indicated character, that will automatically lock the sliding drawers within the box upon closing of the hinged lid of same, and which will also release the drawers from a locked position upon opening of the hinged lid.

A still further object of my invention is to provide a device of the above indicated character having removable drawer slides and means carried by the drawers for engagement with the drawer slides to prevent the drawers from being entirely removed from the chest or box.

And a still further object of the invention is to provide removable drawer slides having means for preventing disengagement of the slides while supporting a drawer and means formed on the slides to prevent the drawers from being accidentally removed from the box.

An additional object of my invention is to provide a device of the above indicated character that is not only ornamental in design and construction, but one that is durable, efficient for the purpose intended, and one that can be manufactured and placed on the market at a relatively low cost.

These and like objects of the invention will be better understood as the description proceeds and is specifically pointed out in the appended claim.

Referring to the accompanying drawings which form a part of this specification and

which clearly illustrate the construction and operation of same,

Figure 1 is a front sectional elevation of a tool chest constructed in accordance with my invention.

Figure 2 is a side vertical sectional view of same.

Figure 3 is a horizontal section taken on line 3—3 of Figure 2.

Figure 4 is a similar view taken on line 4—4 of Figure 2.

Figure 5 is a perspective view of one of the drawer slides.

Figure 6 is a similar view of a modified form of slide, and

Figure 7 is a fragmentary section of the tool chest and one of the sliding drawers showing means carried by one of the drawers to prevent the drawers from being accidentally removed from the chest.

While it is to be understood that the drawer slides and locking feature which constitute my invention can be used in connection with any kind of a trunk, cabinet, or other piece of furniture, I have deemed it best to show same as used in connection with a tool chest, and in the drawings, the numeral 1 indicates the front wall of a tool chest, 2 the side walls, and 3 the rear wall which is fastened to the side walls in any suitable way. The chest is adapted to be supported on legs 4 which are formed integral with the front and side walls. A pad 5 which can be of rubber or any other suitable material is supported in the bottom of the chest by means of the legs 4. Formed integral or secured to the side walls 2 in any suitable manner are drawer slide supports 6. Drawer slides 7 formed in the shape of an angle iron are adapted to each rest and slide on the supports 6. One edge of the angle iron adjacent one end is provided with an extension 8 that cooperates with the angle iron to form an approximately U-shaped member for firmly engaging the supports 6. The opposite edge of the slide and on the opposite end from that on which the extension 8 is formed is a second extension 9 which cooperates with the angle iron to form an approximately U-shaped member. The longitudinal free edge 10 of the extension 9 engages a slot 11 formed in the upper edge of each of the side walls 12 of the sliding drawers 13. Pivotaly connected to the rear wall 14 of the drawers 13 as at 15 are latches 16, each of which is provided with a

thumb piece 17 formed integral with the upper edge. The ends of the latches engage transverse slots 18 in the upper rear end of each side wall 12 of the drawer 13, so that the drawer upon being drawn forward, the ends of the latches will engage the extension 9 on each of the drawer slides 7 and thus prevent the drawer from being accidentally withdrawn from the chest. It is to be understood that when it is desired to entirely remove the drawer, the latches are swung on their pivot 15, thus disengaging same from the side walls 12 and permitting the drawer to be entirely removed from the box or chest.

In Figure 5 I have shown a slight modified form of drawer slide as indicated by the numeral 19. The slides 19 which are also L-shaped are each positioned against the inner side walls 2 and mounted on supports 6. One edge of the slides 19 has an extension 20 formed thereon which engages the underside of the support 6, while the upper edge of the slide is provided with a catch 21, that is so bent as to engage the upper edge of the side wall of the drawer, so that when the drawer is pulled outwardly, the catch will engage the rear wall of the drawer and thus prevent the drawer from being accidentally removed from the box or chest.

In order to lock the drawers within the box or chest, a sliding bar 22 supported in any suitable manner against the inside of the rear wall 3 has locking plates 23 secured to same at spaced intervals. It is to be understood that there are as many locking plates as there are drawers in the chest or box. Each of the drawers is provided with an L-shaped plate 24 connected to the bottom of the rear wall of the drawer and having one end of the L-shaped plate bent upwardly with the rear wall and spaced apart from same, so that on downward movement of the sliding bar 22, the locking plates 23 will engage the L-shaped plates 24 carried by each of the drawers, so that said locking plates will rest between the upwardly extended ends of the L-shaped plates and the rear wall of each of the drawers. The chest or box is provided with a hinged lid 25 which acts to move the sliding bar 22 downwardly to lock the drawers and to also move the sliding bar upwardly on opening of the lid to release the drawers from a locked position. A plate 26 is secured to the inside of the lid and has a slot 27 formed therein, through which extends the upper end of the sliding bar 22, so that upon raising of the lid, the cross bar 28 of the plate 26 engages the lid

29 on the upper end of the sliding bar 22, thus moving the bar 22 upwardly and disengaging the locking plate 23 from the L-shaped plates 24 carried by the rear wall of each of the drawers 13. Upon closing of the lid the top of same strikes against the lip 28, thus moving the bar 22 downwardly and causing the plate 23 to engage the L-shaped plates 24.

The front wall of each drawer is provided with a knob 29 for opening and closing same, and a lock 30 is used to lock the lid 25 in a closed position and at the same time retain the drawers in a locked position.

In view of the foregoing description as to the construction, operation, and objects of my invention, it is thought that any further explanation is unnecessary.

While I have shown and described the preferred form of my invention, I realize that various minor changes may be resorted to without departing from the spirit and scope of the invention as claimed, and therefore, I do not wish to limit myself to the exact details of construction shown, nor to the combination and arrangements of parts.

What I claim as new and desire to secure by Letters Patent is:

In an extension drawer support, a casing, cleats secured to the sides of the casing, drawer guides of angle shape comprising vertical and horizontal portions, the horizontal portions adapted to slide upon the cleats and being provided at their rear ends with L-shaped extensions to engage around and under the cleats, the vertical portions being of equal dimensions as the sides of the drawer and provided with inturned members formed by bending the metal of the guide inwardly and downwardly, a drawer slidably received upon the horizontal portions of the guides and being provided with longitudinal slots in the top of each side thereof, the aforementioned downwardly bent portion of the inturned members being slidably received in the slots and pivoted members secured to the back of the drawer adapted to be swung but normally in position within the slots to abut the inturned members acting as a stop to further outward movement of the drawer unless swung to inoperative position.

In testimony whereof, I have affixed my signature in the presence of two witnesses.

LEO J. DIEBOLD.

Witnesses:

LAWRENCE F. FRICK,
A. R. CHASTAIN.