

925,702.

Patented June 22, 1909.

3 SHEETS—SHEET 1.

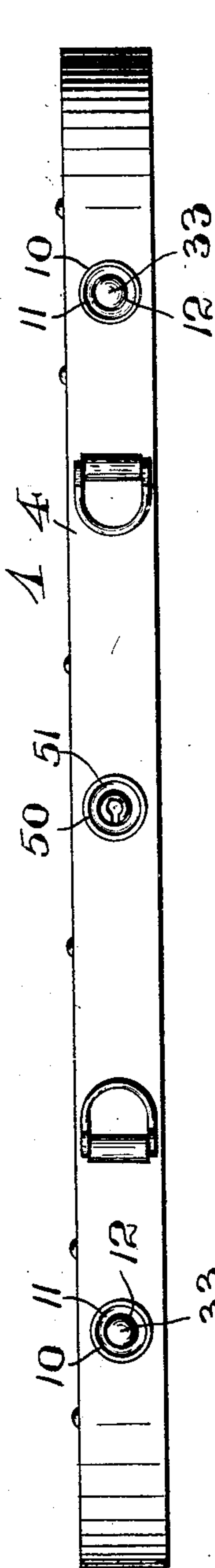


Fig. 1

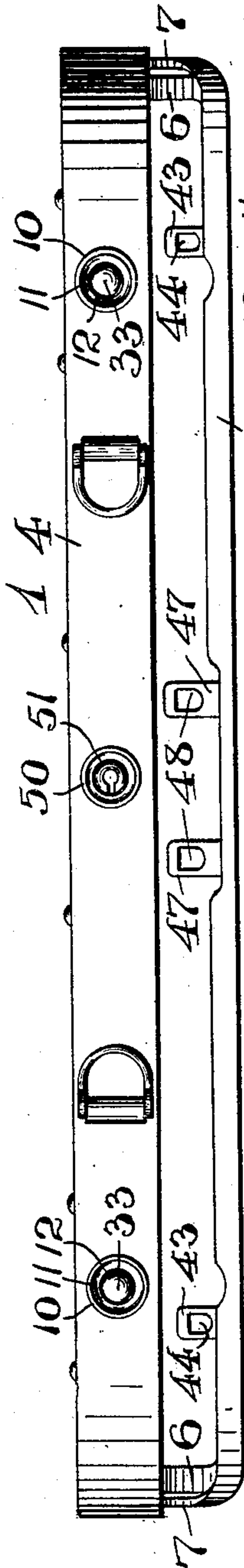


Fig. 2

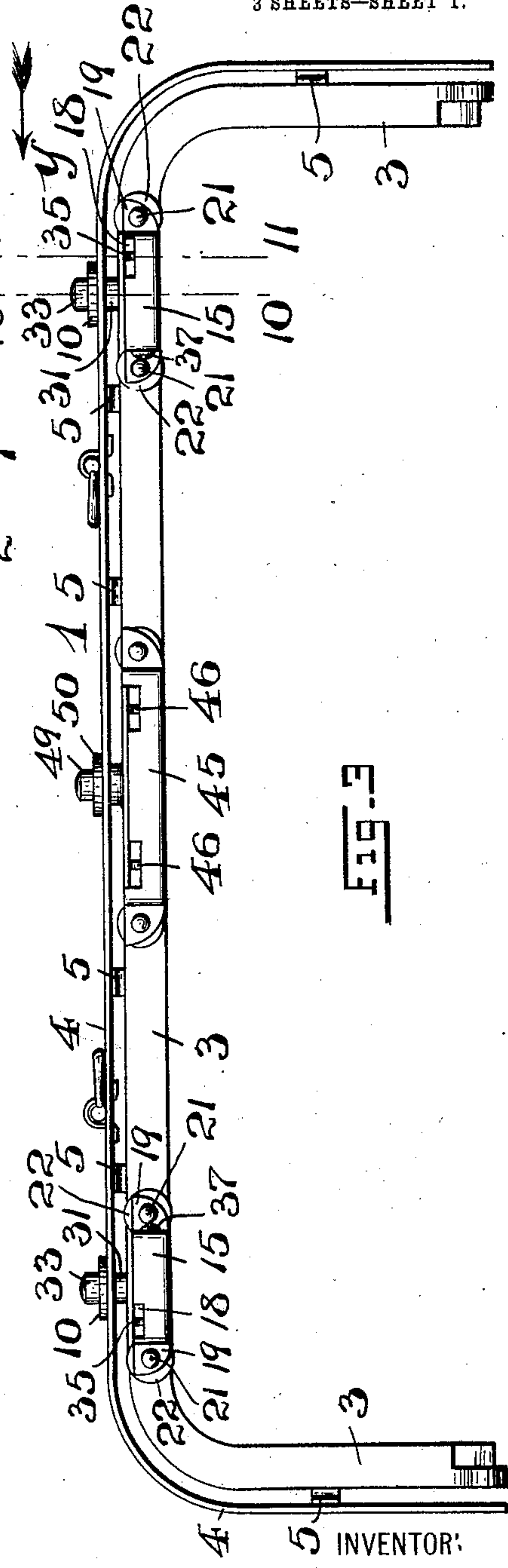


Fig. 3

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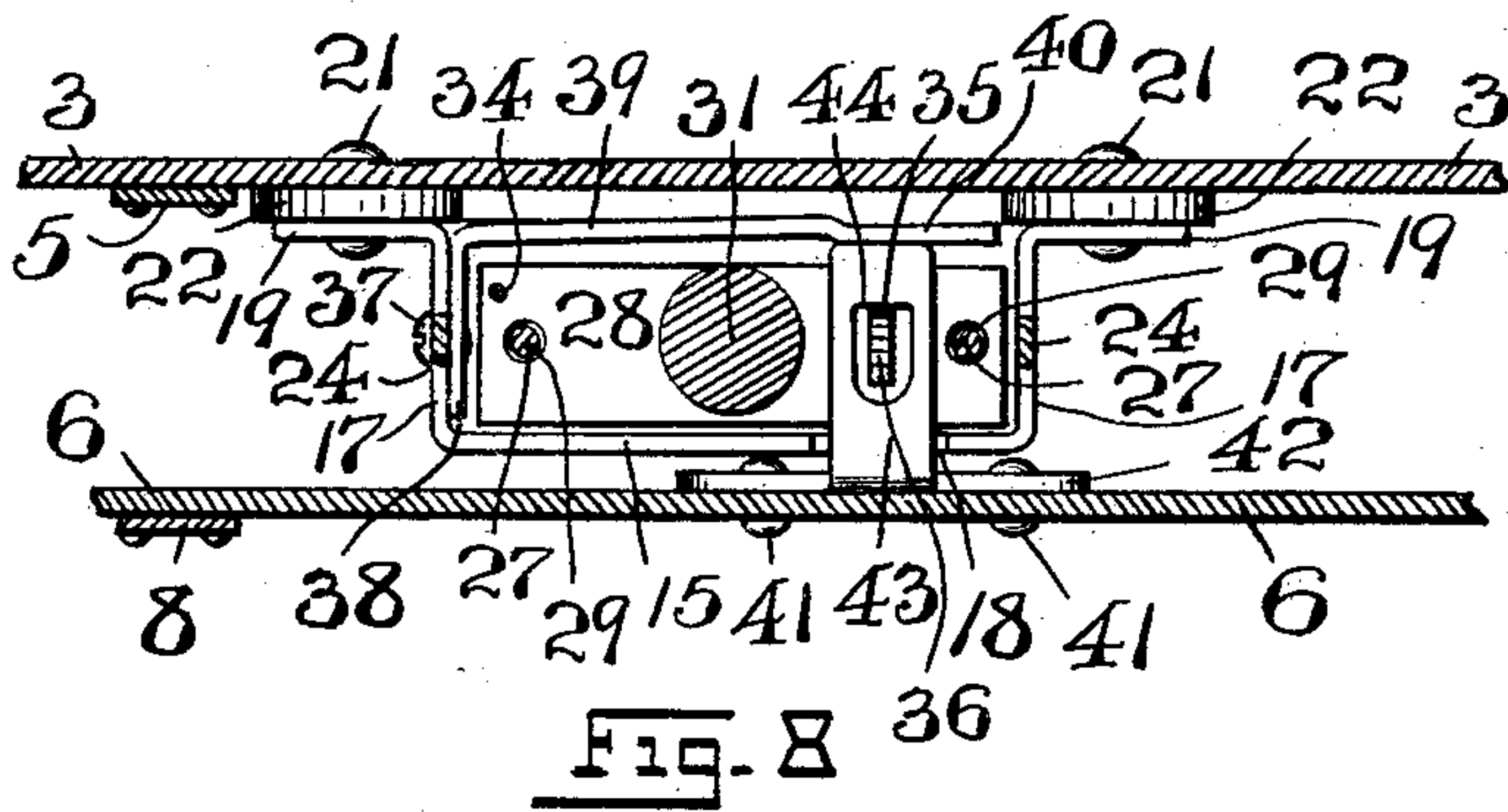
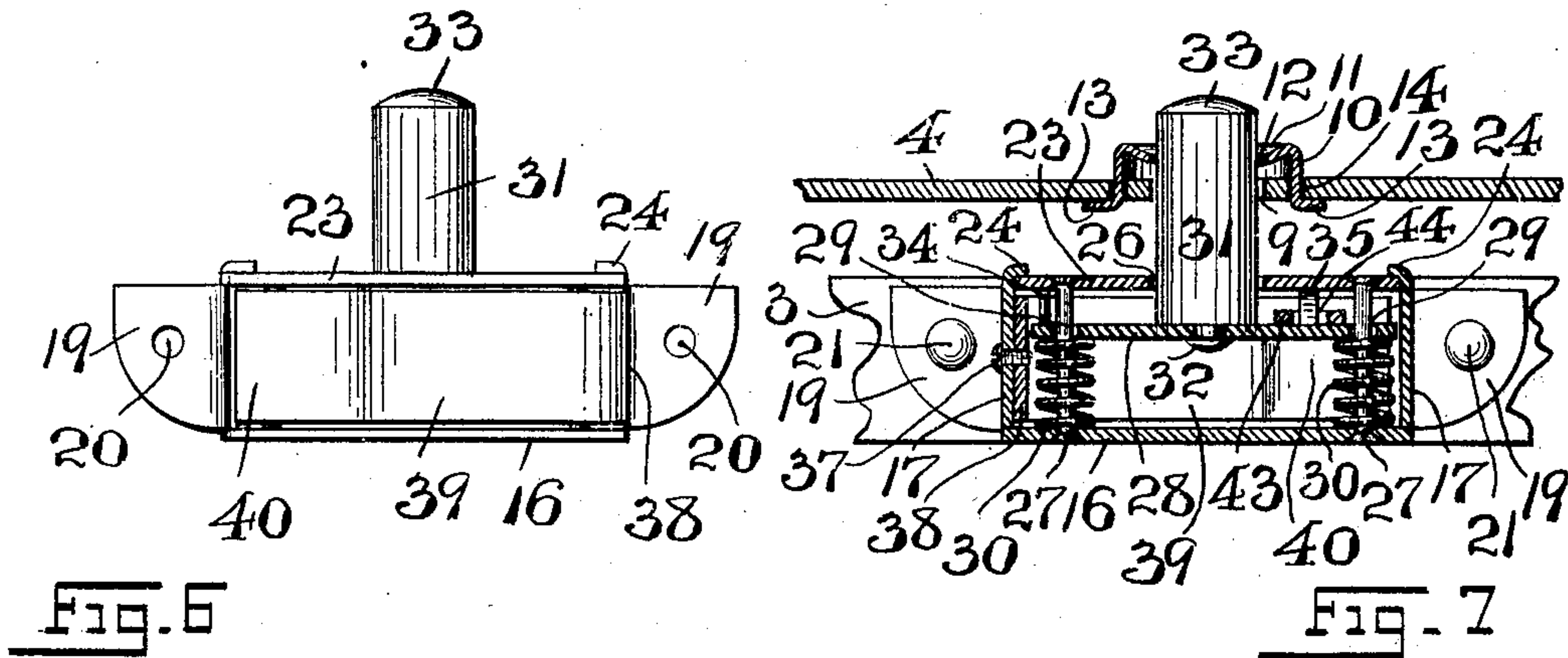
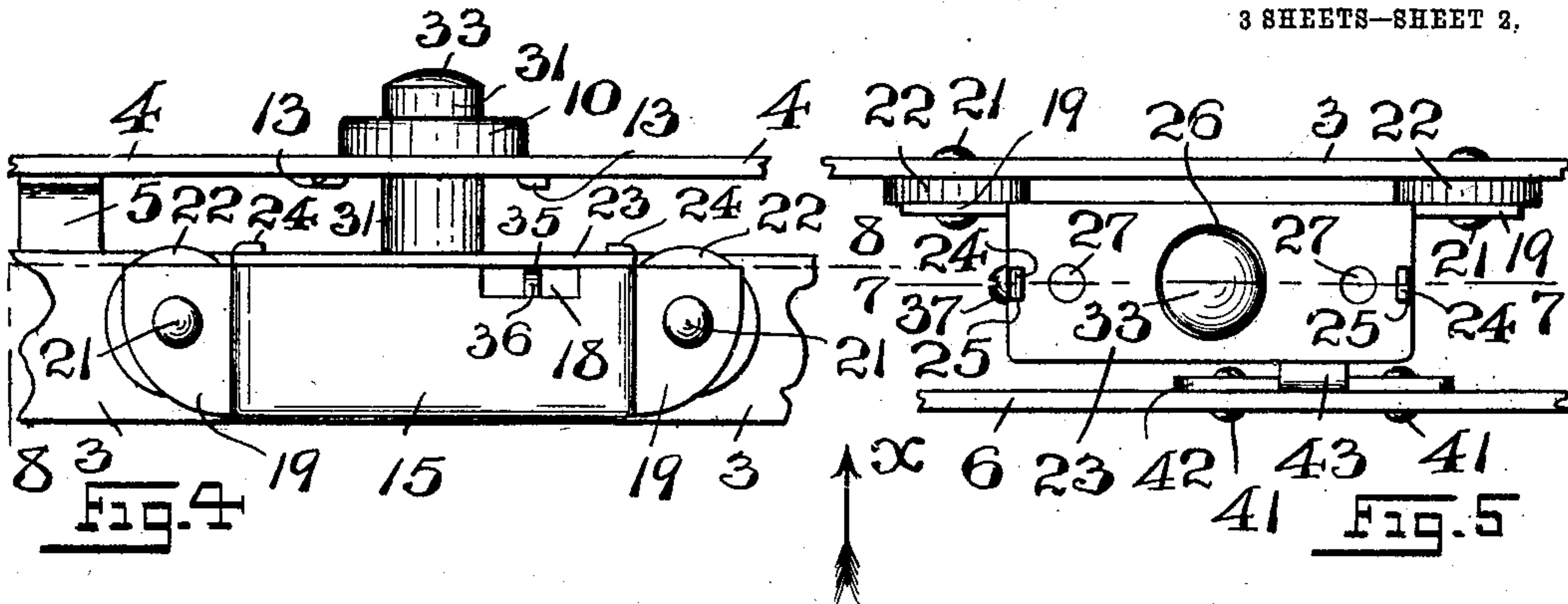
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J. S. ISIDOR.  
BAG FRAME FASTENER.  
APPLICATION FILED FEB. 15, 1909.

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3 SHEETS—SHEET 2.



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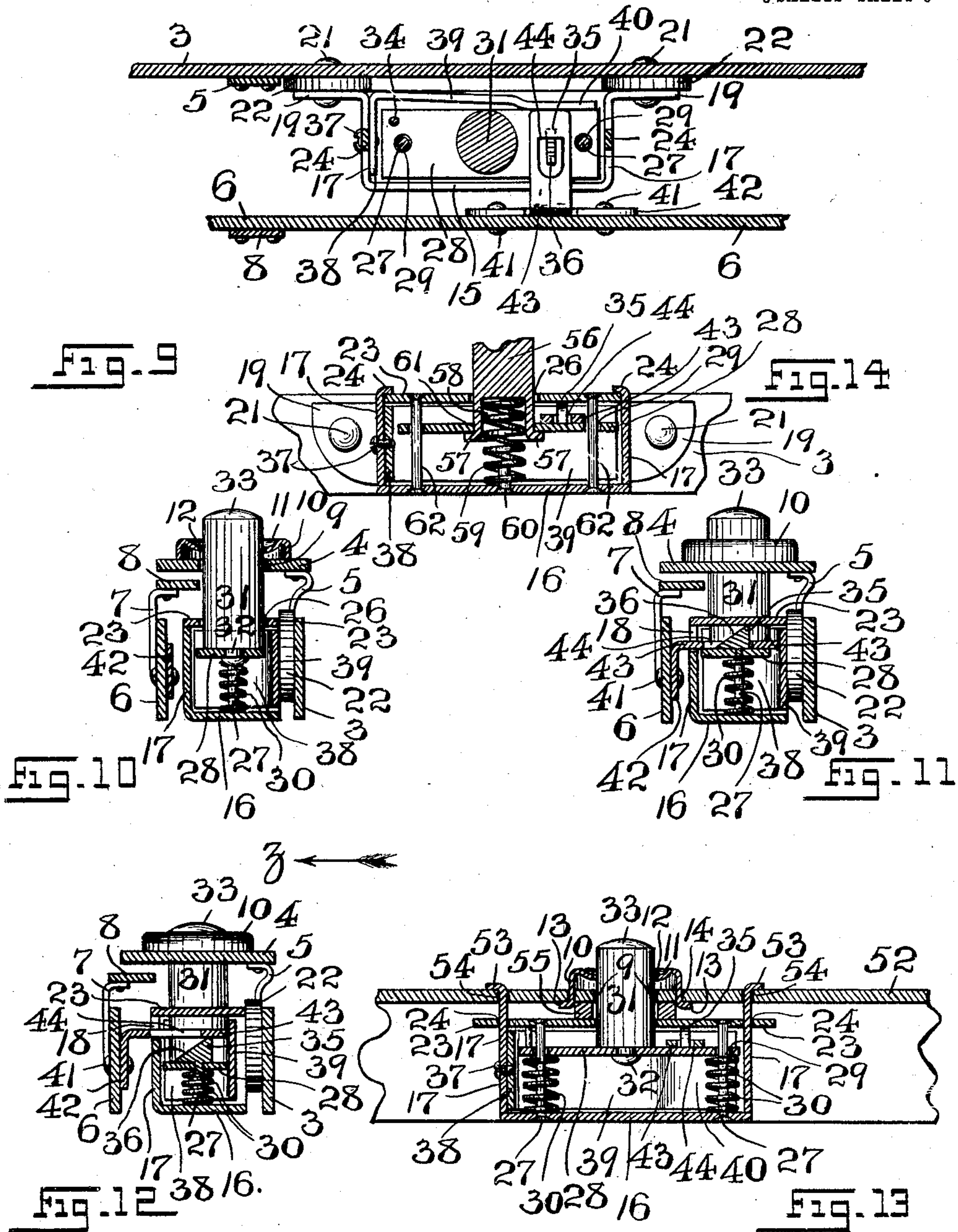


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BAG FRAME FASTENER.  
APPLICATION FILED FEB. 15, 1909.

925,702.

Patented June 22, 1909.

3 SHEETS—SHEET 3



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# UNITED STATES PATENT OFFICE.

JOSEPH S. ISIDOR, OF NEWARK, NEW JERSEY, ASSIGNOR TO R. NEUMANN HARDWARE CO.,  
A CORPORATION OF NEW YORK.

## BAG-FRAME FASTENER.

No. 925,702.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed February 15, 1909. Serial No. 477,946.

*To all whom it may concern:*

Be it known that I, JOSEPH S. ISIDOR, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Bag-Frame Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention has reference, generally, to improvements in catches for the hinged or pivotally connected sections or members of bag-frames; and, the present invention relates, more particularly, to a novel form and construction of holding or retaining catch for locking the frame-sections in their closed relations, all with a view of providing a neat and simply constructed holding catch which is readily arranged upon the inside of the bag-frame, being mounted and secured upon one of the bag-frame sections, and having a releasing post which extends through a perforation or guide in said frame-section to a point upon the outside of the frame-section, where it can be manipulated so as to release the holding mechanism of the catch from its engagement with a latch-plate or holding catch or element mounted upon and secured to the inner side of the other section of the bag-frame.

The present invention has for its further object to provide a novel catch having a spring-controlled releasing post which can be depressed and is automatically held in its depressed relation by the action of a separately located and independently manipulated lock, so as to hold the two frame-sections of the bag-frame in a partially released relation, until by the manipulation of the lock, which is operated preferably by means of a key, the two frame-sections can be separated, at which time the parts of the holding or retaining catch return to their normal initial positions for springing or forcing the latch-plate or holding catch or element upon the one frame-section into its holding or retaining engagement with the holding catch upon the other frame-section, when the two frame-sections are again brought into their closed relation.

Other objects of this invention not at this time more particularly enumerated will be clearly understood from the following description of my present invention.

With the various objects of this invention in view, the said invention consists, primarily, in the novel holding or retaining catch for bag-frames hereinafter set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of the various devices and parts, as well as in the details of the construction of the same, all of which will be more fully described in the following specification and then finally embodied in the clauses of the claim which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a top-edge view of a bag-frame, with the frame-sections in their closed relation, and provided with a pair of holding or retaining catches made according to and embodying the principles of the present invention. Fig. 2 is a similar view of the two frame-sections, showing them in their opened or separated relation; and Fig. 3 is a side view of the inner face of one of the bag-frame sections, and a front view of a lock and the holding catches mounted upon and secured to the inner face of the frame-section. Fig. 4 is a front view, on an enlarged scale, of one of the holding or retaining catches embodying the features of the present invention, showing in connection therewith a portion of the one frame-section with which the catch is used; and Fig. 5 is a top or plan view of the holding or retaining catch, showing the side-member of the one frame-section to which the catch is secured, and said view showing also a top-edge view of the other frame-section and the latch-plate secured thereto. Fig. 6 is a rear face view of the holding or retaining catch detached from the frame-section; and Fig. 7 is a longitudinal vertical section, taken on line 7—7 in said Fig. 5, looking in the direction of the arrow *x*. Fig. 8 is a horizontal section, taken on line 8—8 in Fig. 4, said view showing in connection therewith a top-edge view of a portion of the other frame-section, and a plan or top view of the latch-plate in its locked engagement with the mechanism of the holding or retaining catch; and Fig. 9 is a similar view of the



same parts, represented in said Fig. 8, but showing the parts in their partially released relations. Fig. 10 is a transverse vertical section, taken on line 10—10 in Fig. 3, looking in the direction of the arrow *y*; and Fig. 11 is a transverse vertical section, taken on line 11—11 in said Fig. 3, also looking in the direction of the arrow *y*, but said view showing in connection therewith a vertical section of the latch-plate and the frame-section upon which said latch-plate is mounted and secured, and the said view representing the various parts in their normally locked engagement. Fig. 12 is a transverse vertical section, similar to that represented in said Fig. 11, of the same parts, but showing the locking or retaining elements in their partially disengaged relations. Fig. 13 is a longitudinal vertical section of a holding or retaining catch embodying the principles of the present invention, but illustrating a slightly different means of fastening the catch upon the inner side of a frame-section, and Fig. 14 a longitudinal section of another modified form of holding catch.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the said drawings, the reference-characters 1 and 2 indicate the two main frame-sections of any suitable bag-frame, in this instance, the frame-section 1 comprising a pair of section-members 3 and 4 which are suitably connected by plates 5, and the frame-section 2 comprising a pair of section-members 6 and 7 which are suitably connected by plates 8, as will be clearly evident from an inspection of the several figures of the drawings. The said section-member 4 is provided with suitably disposed holes or openings 9, and suitably secured over each opening 9, upon the outer face of said member 4, is an ornamental shell or cap 10 which has its upper face 11 preferably depressed or made concave, as shown, and is provided with a hole or opening 12 corresponding to the opening 9 in the section-member 4. The said shell or cap 10 is secured by means of any suitable fastening means or devices upon the outer face of said section-member 4, preferably by means of lugs or tongues 13 which are passed through holes or openings 14 in the section-member 4 and are bent over against the back of said member 4, substantially as illustrated in Fig. 7 of the drawings.

As shown in Figs. 1, 2 and 3 of the drawings, the frame-section 1 is usually provided with a pair of such shells or caps, and with a pair of holding or retaining catches, correspondingly located beneath said shells or caps and secured upon the inner face of the section-member 3 of the frame-section 1, in the manner to be presently more fully described. Each holding or retaining catch

consists, essentially, of a main box or shell comprising a front-plate 15, a base-plate 16, and end-plates 17, said box or shell being open at the back or rear and at the top. The said front-plate 15 is provided with a suitably shaped latch-plate-receiving opening, as 18, which is located preferably at the upper part and near one end of said front-plate, and extending at right angles, or approximately so, from the rear edges of said end-plates 17 are fastening lugs or ears 19, each lug or ear 19 being formed with a hole or perforation 20 for the reception of pins, screws or rivets 21 for securing the box or shell upon the inner face of the section-member 3 of the frame-section 1, a suitable washer or ring, as 22 being usually arranged upon each screw or rivet, as clearly shown in the several figures of the drawings. Suitably arranged upon the upper edges of the end-plates 17, so as to close the upper open portion of the main box or shell, is a top-plate 23 which is suitably secured to the said box or shell, and preferably by means of ears or lugs 24 which extend upwardly from the upper marginal edges of the said end-plates 17 through suitable openings or slots, as 25, in the said top-plate 23, and are suitably bent over upon the said top-plate, as clearly illustrated in the drawings. The said top-plate is also provided with a hole or opening 26, corresponding to the previously mentioned holes or openings 9 and 12, as will be clearly understood from an inspection of Figs. 7 and 10 of the drawings. Suitably secured to the base-plate 16 and extending in upward directions therefrom are guide-posts or rods 27, said posts being suitably secured to the previously mentioned top-plate 23. Slidably arranged within the said main box or shell and upon the said posts 27 is a plate 28, the said plate being provided with openings 29 by means of which it is loosely arranged upon the said post 27. Encircling each post 27, between the upper surface of the said base-plate 16 and the lower surface of a plate 28 is a coiled spring 30, said springs acting as a support for the said plate 28. The said plate 28 has suitably arranged thereon a releasing post 31, which may be suitably secured upon the said plate 28 by means of a rivet-like portion 32, or in any other suitable manner, the said posts extending in an upward direction through the opening 26 in the top-plate 23, and through the opening 9 in the frame-section 4, and through the opening 12 in the shell or cap 10. As shown, the upper end-portion 33 of the said post extends directly above the upper face 11 of the shell or cap 10, and provides a suitable fingerpiece for permitting the operator to push the said post 31 in a downward direction against the opposing action of the springs 30. The said plate 28 may also be provided with an upwardly



extending lug or pin 34, near one end of the said plate, and near its other end, the said plate is provided with a latch-plate-receiving lug or projection 35, the edge-portion of the said projection 35 which extends toward the latch-plate receiving opening 18 in the front-plate 15 being beveled, as at 36, and as clearly indicated in Figs. 11 and 12. As will be clearly evident from an inspection of Fig. 7 of the drawings, the said lug or pin 34 and the said latch-plate-receiving projection 35 also act to limit the upward movement of the plate 28, so that under normal initial conditions, all of the parts will be in the positions indicated in said Fig. 7 of the drawings. Suitably secured upon the inner face of one of the said end-plates 17, by means of a screw 37, or other suitable fastening means, is the portion 38 of a spring-plate 39, the said spring-plate 39 extending across the open back of the main box or shell, and having its free end-portion 40 terminating at a point back of the previously mentioned latch-plate-receiving post or lug 35, and the normal tendency of the said free end-portion of the spring being to move in a direction toward the said lug or post 35, as will clearly be evident.

Suitably secured upon the inner face of the sectional-member 6, by means of pins, screws or rivets 41 is a suitably formed plate 42 which is made with a forwardly extending arm or projection 43 formed with a receiving-opening or hole 44, said arm 43 forming a suitable latch-plate which is adapted to be passed upon and over the beveled surface 36 of the lug or projection 35, to be brought into holding or retaining engagement with the said lug or projection, when the said latch-plate enters the hole or opening 18, during the closing action of the two pivotally connected or hinged frame-sections of the bag-frame.

Referring now to Figs. 1, 2 and 3 of the drawings, it will be seen that I have suitably mounted upon and secured to the inner face of the section-member 3 of the frame-section 1 a lock-casing 45, with the holding or retaining lugs 46 of which can be brought in locked engagement, the perforations or opening 48 of a pair of latch-plates 47 which are suitably secured to and extend from the inner face of the section-member 6 of the frame-section 2. The said lock 45 is provided with a key-receiving pressure-post 49 which extends through a suitable opening in the section-member 4 of the frame-section 1 and through a suitable opening formed in the depressed or concave portion 51 of a suitable shell or cap 50, of a similar nature or construction as the shells or caps 10, and the post 49 being adapted to be depressed and operating in the same manner as the posts 31 of the locking or receiving catches.

Having thus described the general construction, and the arrangements of the several parts, and especially of the holding or retaining catches, I will now set forth the manner of operating the parts to open or close the bag-frame-sections. Suppose the two frame-sections 1 and 2 having been closed and that the several latch-plates upon the frame-section 2 have been brought into their locked or retaining engagement with the respective holding or retaining catches and with the lock 45, the latch-plates 43 having been forced over the holding or retaining lugs or projections 35, as clearly illustrated in Figs. 10 and 11 of the drawings. To separate the bag frame-sections 1 and 2, all that is necessary is to depress the posts of the two holding or retaining catches, so as to move the plates 28 in downward directions against the action of the springs 30 and thereby withdrawing the holding or retaining lugs or posts or projections 35 from the openings 44 of the respective latch-plates 43, as will be clearly evident. At the same time, the end-portion 40 of the spring 39 bears against the edge of the latch-plate 43 and causes it to move from the position indicated in Fig. 12 of the drawings, in which positions the parts are held owing to the holding or retaining engagement of the holding or retaining catches 46 of the lock 45 with the latch-plates 47, so that the parts of the holding or retaining catches are only partially unlocked or disengaged, as long as the lock is not operated, and thus the frame-sections cannot be separated. At the same time the pressure-posts 31 of the holding or retaining catches will be retained in their downwardly depressed positions. As soon as the mechanism of the lock 45 is unlocked by means of a suitable key, and the pressure-post 49 is depressed, the two frame-sections 1 and 2 become fully separated or opened, and the latch-plates 43 are removed entirely from engagement with the holding or retaining lugs or posts 35 of the plates 28, as will be clearly evident. At the same time the depressed coils of the springs 30 will again return the parts of the holding or retaining catches to their normal initial positions ready for being again engaged by the latch-plates 43 as soon as the frame-sections 1 and 2 are again closed by the operator, as clearly shown in Figs. 8 and 11 of the drawings.

Referring now to Fig. 13 of the drawings, I have shown a holding or retaining catch embodying the same principles of construction as the holding or retaining catch illustrated in Figs. 1 to 12 inclusive, but I have shown in said Fig. 13 a modified means of attaching the main shell or box of the said holding or retaining catch to that form of bag-frame member or section 52 which is 7-shaped in cross-section, the end-plates 17 of the main box or shell being provided with



upwardly extending lugs or ears 53 which are passed through openings 54 in the frame-section 52 and are bent over upon the outer surface thereof, as shown. Encircling the pressure-post 31 of the said holding or retaining catch between the upper surface of the top-plate 28 and the under surface of the upper portion of the frame-section 52 is preferably arranged a suitable washer or ring 55, whereby the said holding or retaining catch is suitably and positively secured in its operative position upon the inner side of the frame-section 52, as will be clearly evident.

In Fig. 14, I have shown another slightly modified construction of holding or retaining catch. In this construction the presser-post 56 is provided with a suitably formed socket or depression, as 58, the surrounding edge-portion 57 of the post being inserted into and passed through a suitably formed opening 61 in the plate 28 and said edge being turned over against the under face of said plate and suitably secured there-to in any usual and well-known manner. The bottom-plate 16 may be provided with a short post or lug, as 60, over which is arranged an end-portion of a coiled spring 59, which serves the same purpose as the springs 30 used in connection with the construction of holding catch shown in Figs. 1 to 10 inclusive.

The plate 28 is movably arranged upon the guide-posts 62, in the same manner as previously described, except that the springs 30 have been dispensed with in this construction. In all other respects the construction and operation of this form of holding or retaining catch is the same as that illustrated in said Figs. 1 to 13 inclusive and described in the foregoing specification.

From the foregoing description of my present invention, it will be clearly seen that I have provided a simply constructed and efficiently operating holding or retaining catch for bag-frame-sections which is easily manipulated and in which the parts have been reduced to a minimum so that they cannot easily get out of order.

I am fully aware that changes may be made in the arrangements and combinations of the various devices and parts as well as in the details of the construction of the same without departing from the scope of my present invention as described in the foregoing specification and as set forth in the appended claims. Hence, I do not limit my invention to the exact arrangements and combinations of the devices and parts as described in the said specification, nor do I confine myself to the exact details of the construction of the said parts as illustrated in the accompanying drawings.

I claim:—

1. The combination with the pivoted

frame-sections of a bag-frame, of a retaining catch mounted and secured upon the inner side of one of the frame-sections, a holding latch upon the inner side of the other frame-section adapted to be brought in holding engagement with the said retaining catch, means connected with said retaining catch for disengaging said latch-plate from its holding engagement with said retaining catch, and a lock-mechanism connected with said frame-sections, said lock-mechanism preventing the separation of said frame-sections when the latch-plate is disengaged from its holding engagement with said retaining catch, but producing a separation of said frame-section as soon as the lock-mechanism is operated.

2. The combination with the pivoted frame-sections of a bag-frame, of a retaining catch mounted and secured upon the inner side of one of the frame-sections, a holding latch upon the inner side of the other frame-section adapted to be brought in holding engagement with the said retaining catch, the said frame-section being provided with an opening, a presser-post connected with said retaining catch, said post extending into and through the opening in said frame-section and terminating in a finger-piece upon the outer side of said frame-section, and said presser-post being adapted to be depressed for disengaging said latch-plate from its holding engagement with said retaining catch, and a lock-mechanism connected with said frame-sections, said lock-mechanism preventing the separation of said frame-sections when the latch-plate is disengaged from its holding engagement with said retaining catch, but producing a separation of said frame-sections as soon as the lock-mechanism is operated.

3. The combination with the pivoted frame-sections of a bag-frame, of a retaining catch mounted and secured upon the inner side of one of the frame-sections, a holding latch upon the inner side of the other frame-section adapted to be brought in holding engagement with the said retaining catch, the said frame-section being provided with an opening, a shell secured over the opening in said frame-section, said shell having a perforated and concave face, a presser-post connected with said retaining catch, said post extending into and through the openings in the frame-section and in said shell and terminating in a fingerpiece above the concave face of said shell, and said presser-post being adapted to be depressed for disengaging said latch-plate from its holding engagement with said retaining catch, and a lock-mechanism connected with said frame-sections, said lock-mechanism preventing the separation of said frame-sections when the latch-plate is disengaged from its holding engagement with said retaining catch, but



producing a separation of said frame-sections as soon as the lock-mechanism is operated.

4. The combination with the frame-sections of a bag-frame, of a retaining catch upon one of said frame-sections, a retaining means upon the other frame-section adapted to be brought in holding engagement with said retaining catch, means connected with said retaining catch for producing a partial disengagement of the same with said retaining means, and a lock-mechanism connected with said frame-sections, said lock-mechanism permitting the complete disengagement of the retaining catch and the retaining means when the lock-mechanism is operated.

5. A holding or retaining catch for bag-frames comprising a main shell provided with means for securing the same to a frame-section, said shell having an open part and a perforated top-plate, a spring-supported plate movably arranged within said shell, a retaining post upon said spring-supported plate with which a latch-plate can be brought in holding engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, and means connected with said spring-supported plate for depressing the same.

6. A holding or retaining catch for bag-frames comprising a main shell provided with means for securing the same to a frame-section, said shell having an open part and a perforated top-plate, a spring-supported plate movably arranged within said shell, a retaining post upon said spring-supported plate with which a latch-plate can be brought in holding engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, said portion being adapted to be brought in engagement with the latch-plate, and a presser-post mounted upon said spring-supported plate, said post extending upwardly through the perforation in said top-plates for depressing said spring-supported plate.

7. A holding or retaining catch for bag-frames comprising a main shell provided with means for securing the same to a frame-section, said shell having an open part and a perforated top-plate, a spring-supported plate movably arranged within said shell, a retaining post upon said spring-supported plate with which a latch-plate can be brought in holding engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, said portion being adapted to be brought in engagement with the latch-plate, and a presser-post mounted upon said spring-supported plate, said post extending upwardly through the

perforation in said top-plate for depressing said spring-supported plate, combined with a bag-frame-section formed with an opening, and a shell secured over the opening in said frame-section, said shell having a perforated and concave face, and said presser-post extending also through the opening in said shell.

8. A holding or retaining catch for bag-frames comprising a main shell provided with a face-plate, a base-plate and end-plate, means connected with said shell for securing the same to a frame-section, said shell having an open part and a perforated top-plate, guide-posts between the base-plate and said top-plate, a plate movably arranged upon said guide-posts, springs encircling said guide-posts and upon which said last-mentioned plate is supported, a retaining post upon said spring-supported plate with which a latch-plate can be brought in holding engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, said portion being adapted to be brought in engagement with the latch-plate, and means connected with said spring-supported plate for depressing the same.

9. A holding or retaining catch for bag-frames comprising a main shell provided with a face-plate, a base-plate and end-plate, means connected with said shell for securing the same to a frame-section, said shell having an open part and a perforated top-plate, guide-posts between the base-plate and said top-plate, a plate movably arranged upon said guide-posts, springs encircling said guide-posts and upon which said last-mentioned plate is supported, a retaining post upon said spring-supported plate with which a latch-plate can be brought in holding engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, said portion being adapted to be brought in engagement with the latch-plate, and a presser post mounted upon said spring-supported plate, said post extending upwardly through the perforation in said top-plate for depressing said spring-supported plate.

10. A holding or retaining catch for bag-frames comprising a main shell provided with a face-plate, a base plate and end-plate, means connected with said shell for securing the same to a frame-section, said shell having an open part and a perforated top-plate, guide-posts between the base-plate and said top-plate, a plate movably arranged upon said guide-posts, springs encircling said guide-posts and upon which said last-mentioned plate is supported, a retaining post upon said spring-supported plate with which a latch-plate can be brought in hold-



ing engagement, a spring-plate having a portion extending into the open part of said shell and having a movement normally toward said retaining post, said portion being adapted to be brought in engagement with the latch-plate, and a presser-post mounted upon said spring-supported plate, said post extending upwardly through the perforation in said top-plate for depressing said spring-supported plate, combined with a bag frame-section formed with an opening, and a shell secured over the opening in said frame-section, said shell having a perforated and concave face, and said presser-post extending also through the opening in said frame-section and in said shell.

11. A holding or retaining catch for bag-frames comprising a main shell provided with a face-plate, a base-plate and end-plate, means connected with said shell for securing the same to a frame-section, said shell having an open part and a perforated top-plate, guide-posts between the base-plate and said

top-plate, a plate movably arranged upon said guide-posts, springs encircling said guide-posts and upon which said last-mentioned plate is supported, a retaining post upon said spring-supported plate, a latch-plate in separable holding engagement with said retaining post, a spring-plate movably arranged in the open part of said main shell, said spring-plate having a portion extending into said main shell, and means for securing said portion to one of said end-plates, said spring-plate having its free end-portion in engagement with the end of said latch-plate, and means connected with said spring-supported plate for depressing the same.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 9th day of February, 1909.

JOSEPH S. ISIDOR.

Witnesses:

FREDK. C. FRAENTZEL,  
FRED'K H. W. FRAENTZEL.