

No. 738,014.

PATENTED SEPT. 1, 1903.

C. W. DU FRANE.

BAG FASTENER.

APPLICATION FILED AUG. 6, 1902.

NO MODEL.

Fig. 1.

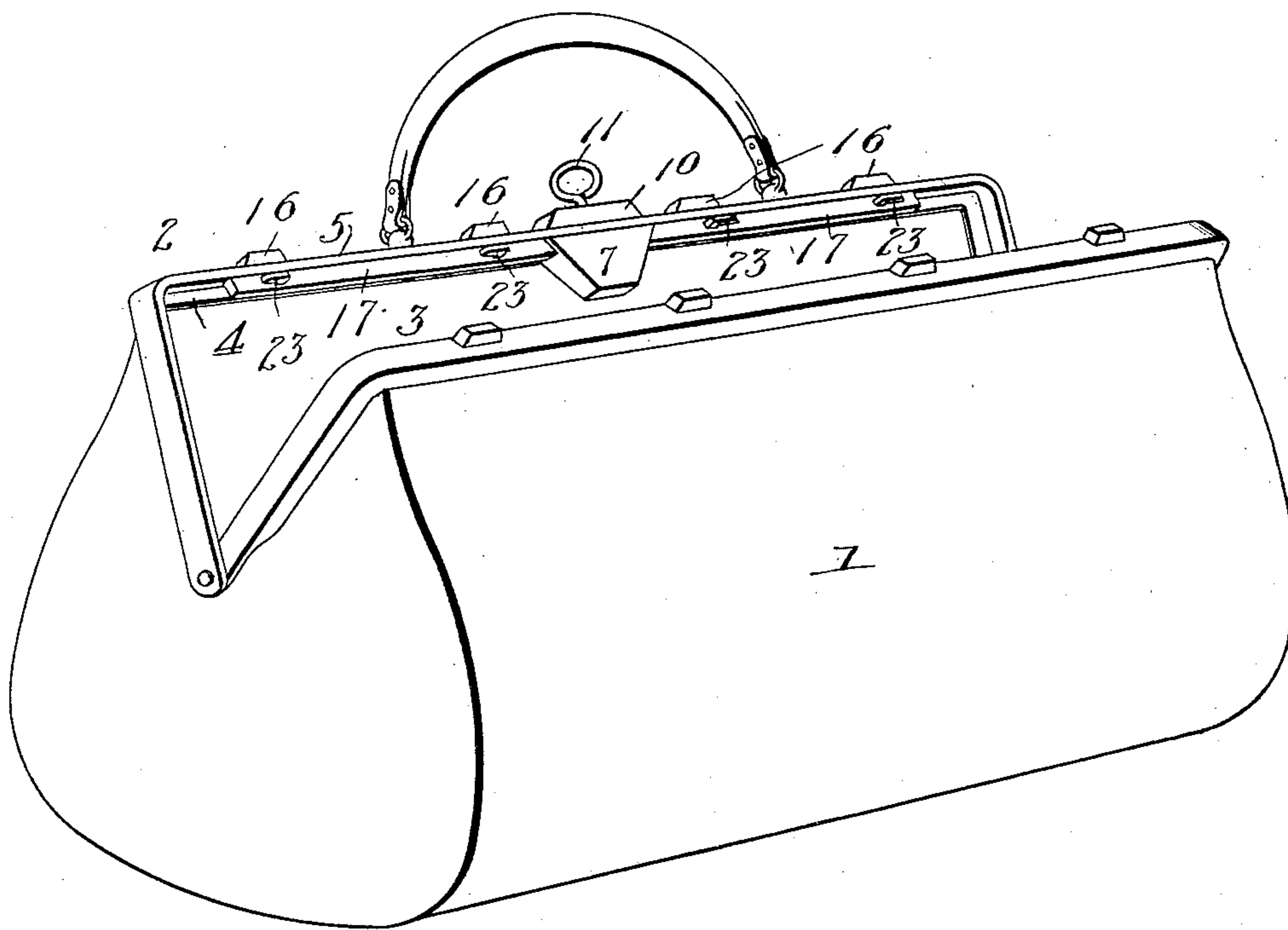


Fig. 2.

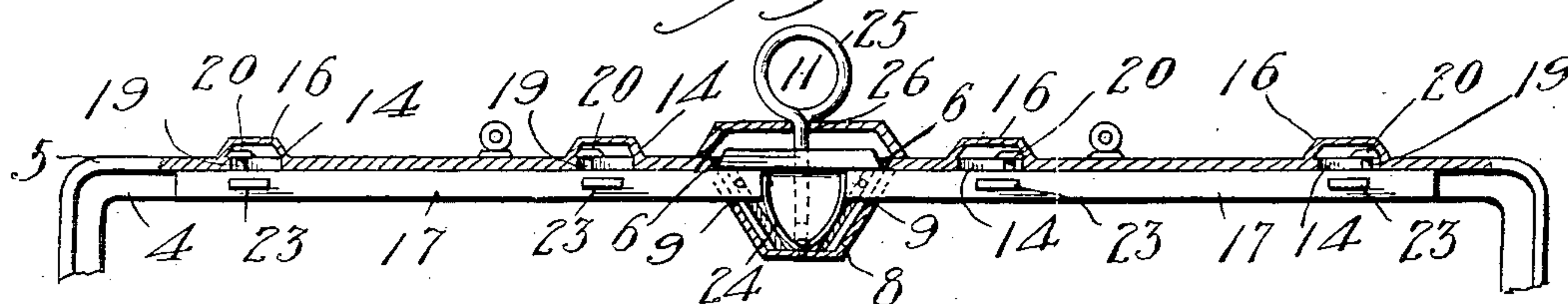


Fig. 3

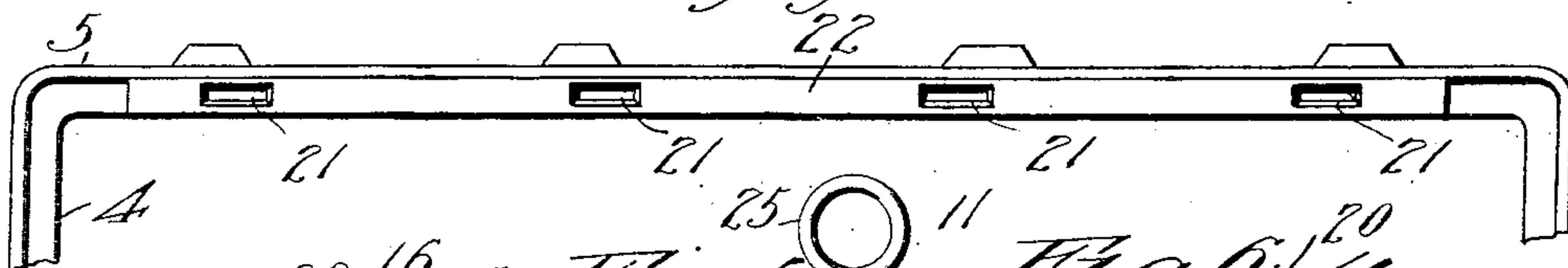


Fig. 4.

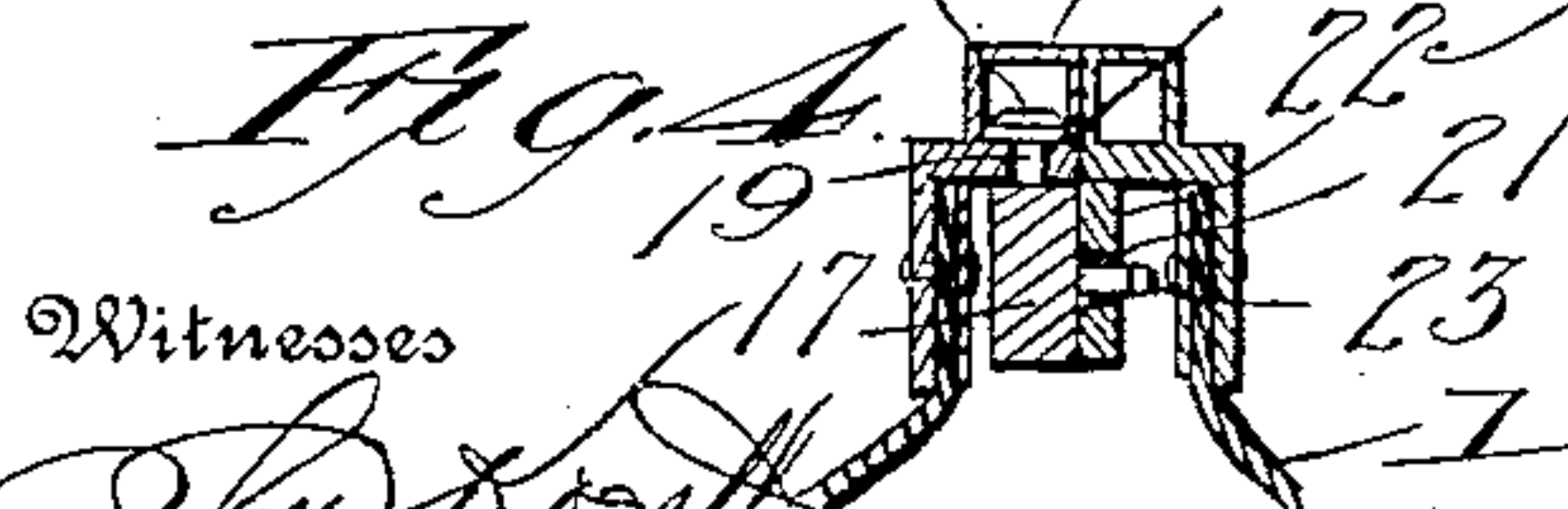


Fig. 5.

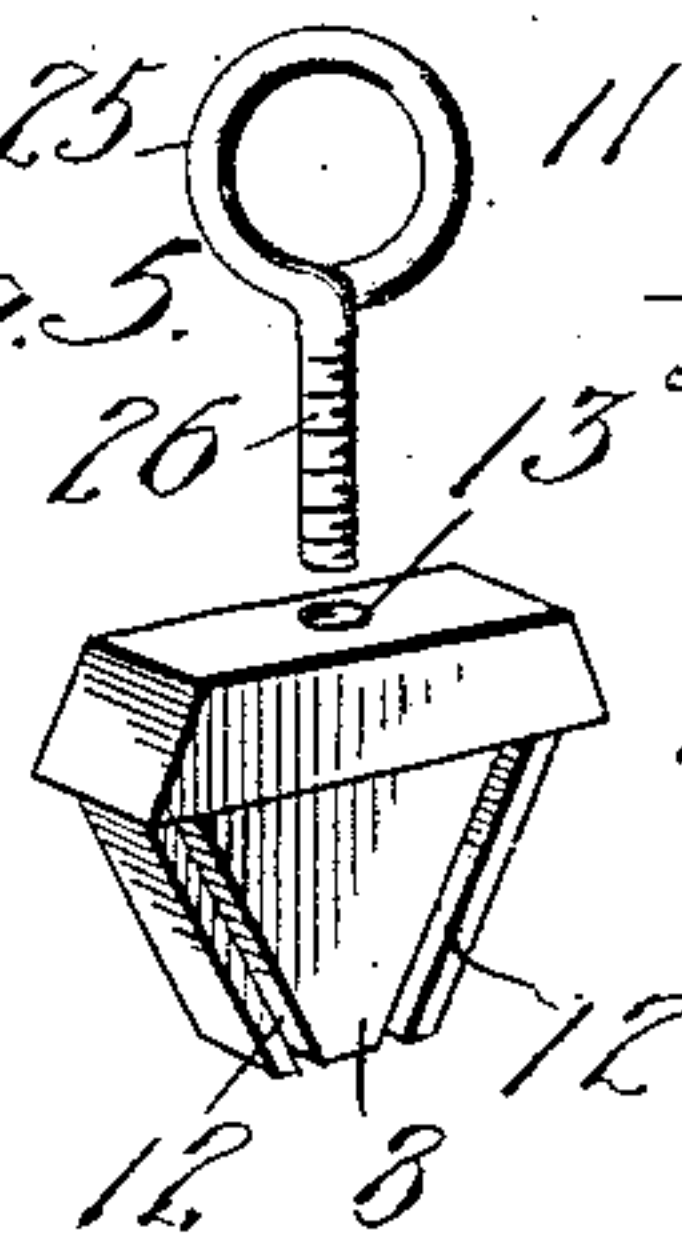


Fig. 6



Witnesses

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23
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CHARLES W. DU FRANE, OF HOBOKEN, NEW JERSEY.

BAG-FASTENER.

SPECIFICATION forming part of Letters Patent No. 738,014, dated September 1, 1903.

Application filed August 6, 1902. Serial No. 118,671. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. DU FRANE, a citizen of the United States, residing at Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Bag-Fasteners, of which the following is a specification.

My invention relates to satchels, suit-cases, and the like devices; and the primary object thereof is to provide a new and improved automatic latch especially adapted for use in connection with a device of the above character and also one that is cheap, durable, and efficient.

A further object of the invention is to provide a latch which may be conveniently applied to any device having a hinged cover without materially altering the construction of the device.

Still further objects of the invention will appear as the nature of the same is more fully understood from the following description, taken in connection with the accompanying drawings, forming a part of this specification and illustrating the preferred form of my invention.

The invention consists in the construction, combination, and arrangement of parts hereinafter fully described and claimed.

Figure 1 is a perspective view of a satchel constructed in accordance with my invention. Fig. 2 is a detail fragmentary view in elevation of one jaw of the frame, the horizontal flange thereof being in section. Fig. 3 is a similar view of the other jaw of the frame. Fig. 4 is a transverse sectional view of the frame in alinement with one of the housings, the jaws thereof being in closed position. Fig. 5 is a detail perspective view of the latch-block. Fig. 6 is a detail perspective view of a fragmentary portion of one of the bolts.

The numeral 1 designates a bag, and 2 and 3 the jaws of a frame of a satchel. The jaws 2 and 3 comprise strips of metal L-shaped in cross-section, providing vertically and horizontally disposed flanges 4 and 5, respectively, and the ends thereof are downwardly bent and hingedly connected. The vertically-disposed flanges 4 are adapted to have secured thereto in any desired manner the adjacent edges of the bag 2. The horizontally-disposed flange 5 of the jaw 2 is provided

with a centrally-located opening 6, having situated therebeneath a casing 7, adapted to contain a sliding latch-block 8, and having the side walls thereof provided with alining slots 9. The opening 6 is closed by a covering 10, having the upper side thereof provided with a centrally-located aperture, through which may pass, to engage the latch-block 8, a key 11. The latch-block 8 is provided upon the face thereof with two slots 12, oppositely inclined from the center thereof, and a vertically and centrally disposed recess 13, provided with screw-threads, and into which is adapted to be inserted the key 11 to operate the latch-block. The flange 5 of the jaw 2 is provided with a plurality of openings 14, arranged in longitudinal alinement with the slots 9, and housing said openings to provide seats 15 are caps 16, which may be formed integral with the flange 5 or made separately and secured thereto.

17 designates sliding bolts, each having one of its ends passing through the slots 9 to deposit within the casing pins 18 to permit of their engagement with the slots 12, whereby when the latch-block 8 is caused to move upward the bolts are drawn inwardly to release the jaw 3 from locked engagement with the jaw 2. The bolts 17 are provided with supporting-lugs 19, adapted to extend through the openings 14, and mounted thereon are heads 20, adapted to rest upon the seats 15 to support the bolts in a horizontal plane and to permit of longitudinal movements being imparted to them. Secured to the front faces of the bolts 17 are means for engaging slots 21 in a keeper 22, secured to the horizontal flange 5 of the jaw 3, said means comprising angular projections 23. The slots 21 are sufficiently large to permit of the projections extending therethrough and being brought into contact with the inner wall of the keeper to normally retain the jaws 2 and 3 in locked engagement.

The bolts 17 are adapted to be normally projected by means of a spring 24, which is approximately U-shaped and secured to the lower wall of the casing 8, to place the ends thereof in contact with the inner ends of the bolts.

The key 11 is preferably constructed from a single piece of metal having the upper end

thereof bent to form a loop 25 to permit of the insertion of the finger, whereby the same may be manipulated. The stem 26 of the key is screw-threaded to correspond to the screw-threaded recess 13, into which it is inserted to permit of the latch-block being operated to release the jaws from locked engagement with each other.

The operation of my invention may be explained as follows: The bolts 17, being normally held projected by means of the spring 24, the projections 23 will engage the wall of the keeper behind the slots 21 to secure the jaws in locked relation by causing the jaws to approach each other. The projections 23 have the ends thereof beveled, whereby when the edges of the slots 21 are brought into contact therewith during the operation of closing the satchel the bolts 17 are moved inward in the casing to be immediately projected when the projections are in the slots, placing them in engagement with the wall behind the slots to secure the jaws in locked engagement. The jaws may be released from locked engagement with each other by exerting an upward pull upon the latch-block through the medium of the key 11, which movement of the latch-block, through virtue of the inclined slots 12 and the engagement of the pins 18 therewith, will draw the bolts 17 inward, withdrawing the projections 23 from engagement with the keeper, leaving the satchel free to be opened.

It is obvious from the above description, taken in connection with the accompanying drawings, that I provide a latch of a new and

improved construction which is cheap, durable, and efficient and which will accomplish the desired results.

Having described my invention, what I claim is—

1. The combination with the jaws of a satchel-frame; of a latch-block slidably mounted in one of said jaws and having inclined slots therein, oppositely-extending bolts slidably mounted on said jaw, pins upon the bolts and slidably mounted within the slots, a spring upon the block and interposed between, and bearing upon, the bolts, and means upon the bolts for engaging the opposite jaw.

2. In a device of the character described, the combination with a satchel-jaw having slots therein; of a second slotted jaw, bolts slidably mounted on said second jaw, supporting-lugs upon the bolts and slidably mounted in said jaw, locking projections upon the bolts and adapted to engage the slots in the first-mentioned jaw, a casing upon the second jaw having slots to receive the bolts, a latch-block slidably mounted therein and having inclined slots, pins upon the bolts engaging the slots, a spring interposed between the bolts and secured to the latch-block, and means for operating the latch-block.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. DU FRANE.

Witnesses:

W. P. CATLIN,
ROBERT C. FULTON.