June 24, 1930. W. C. HIERING 1,765,671

BAG FRAME FASTENER

Filed April 17, 1929

Fig. 1.

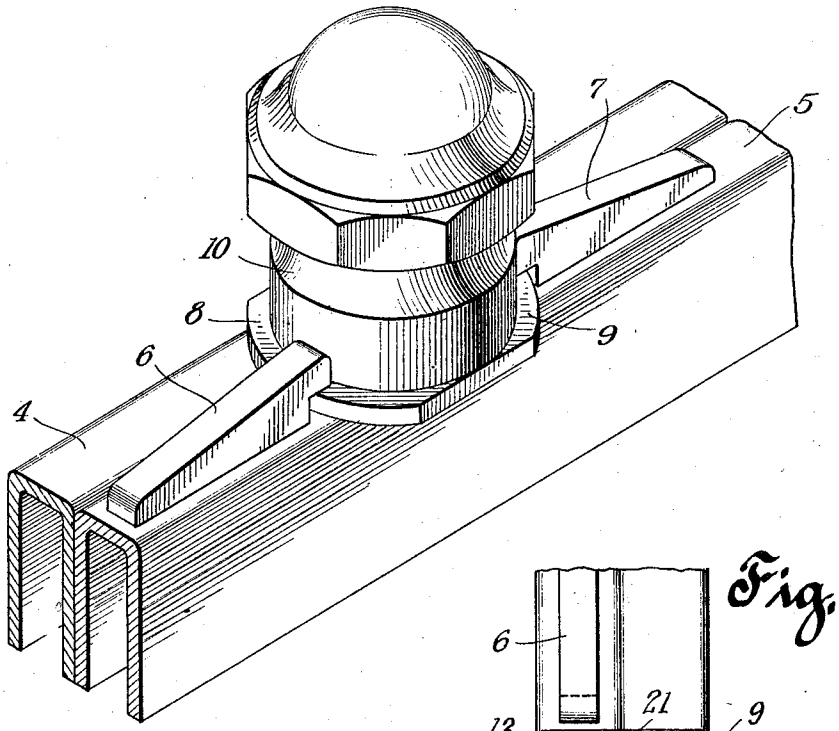


Fig. 2.

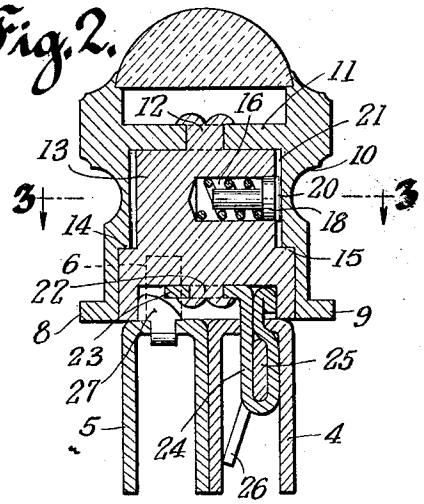
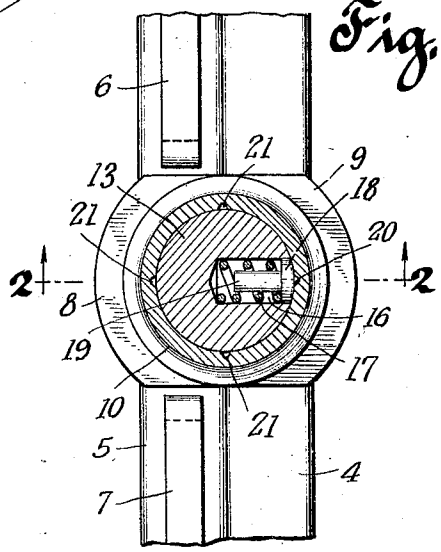


Fig. 3.



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BAG-FRAME FASTENER

Application filed April 17, 1929. Serial No. 355,695.

This invention relates to frames for handbags and more particularly to devices for latching members of such frames together.

In Letters Patent No. 1,677,137, granted to me on July 17, 1928, is described a latching device comprising a rotatable knob mounted on the frame members and provided with projections adapted to engage cooperating projections on the other frame member to hold the frame members latched together. In order to prevent accidental rotation of the knob it is necessary to provide a resilient detent, which in the device disclosed by the patent, comprises a square nut engaging an annular spring, producing a clicking noise whenever the knob is rotated.

It is an object of this invention to provide a detent for a rotatable frame latching knob which is simple in construction, silent in operation, and not exposed as has heretofore been the case with similar devices.

A further object is the provision of a rotatable frame latching knob having structural features which facilitate its manufacture and assembly on a bag frame.

These and other objects, which will later appear, are accomplished by the simple and practical construction and arrangement of parts hereinafter described and exhibited in the accompanying drawings, forming part hereof, and in which:

Figure 1 represents a perspective view of a conventional type of bag frame showing an application of an embodiment of the invention.

Figure 2 represents a sectional view of the latching knob taken on line 2—2 of Figure 3.

Figure 3 represents a plan sectional view of the device taken on line 3—3 of Figure 2.

Referring to the drawings, in Figure 1 is shown a portion of a common type of bag frame consisting of two side members 4 and 5 of channel shaped cross-section. Rigidly attached to the frame member 5 are a pair of keeper elements 6 and 7, spaced apart and engageable by projections 8 and 9 fixed to a knob 10 rotatably mounted on frame member 4.

The knob 10 is hollow and has a bridge 11 near its upper end provided with an aperture to receive a stud 12 projecting from a supporting post 13. The stud 12, after being passed through the aperture in the bridge 11, is spread apart to secure the knob to the post, yet enable relative rotary movement between the two. The knob 10 is further supported on the post 13 by cooperating shoulders 14 and 15.

The post 13 is provided with a cylindrical recess 16 in which is positioned a coiled compression spring 17 engaging the shoulder 18 of a plunger 19 to constantly urge the latter outwardly so that the bevelled tip 20 of the plunger will readily snap into one of the four recesses 21 cut into the inner wall of knob 10.

Projecting from the under side of block 13 is a stud 22 which passes through an aperture in a flat, right-angular extension 23 integral with a flattened loop 24. The stud 22 is spread, as shown in Figure 2 to secure the post 13 to the extension 23. The loop 24 passes through a slot in the frame member 4 and is engaged by a torsion spring 25, which has an end 26 bent to abut a wall of the channel-shaped member 4. Fixed to frame member 5 is stud 27 over which the post 13 is adapted to snap to securely latch the frame members together, the spring 25 constantly acting to hold the post 13 in an erect position relative to the frame members.

In operation, the frame members 4 and 5 are latched together by rotating the knob 10 so that projections 8 and 9 on the knob engage the projections 6 and 7 on frame member 5 as shown in Figure 1. To open the bag, the knob 10 is rotated to place projections 8 and 9 at right angles to their position as shown in Figure 1. The knob may then be tilted against the action of the torsion spring 25 acting on loop 24 to release post 13 from the stud 27, to open the bag.

As the knob 10 is rotated, the plunger 19 is pressed into the recess 16 against the action of spring 17 until it is brought into coincidence with one of the recesses 21, at which time the plunger snaps into the recess and holds the knob against accidental rotation. The action of the plunger is silent

and positive, thus rendering it a highly effective detent for the purpose desired.

From the above description it will be seen that I have provided an effective and silent detent for bag frame latches, and in addition have provided a knob structure which may be easily manufactured and readily assembled on a bag frame.

The foregoing disclosure is to be regarded as descriptive and illustrative only, and not as restrictive or limitative of the invention, of which obviously an embodiment may be constructed including many modifications without departing from the general scope herein indicated and denoted in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A bag fastener comprising the combination of a pair of frame members, of a post hinged on one of said frame members, means to resiliently retain said post erect, a stud fixed on the mating frame member, means in said post to engage said stud, a knob rotatable on said post, a plurality of recesses in the inner walls of the knob, a spring pressed plunger carried by the post and adapted to snap into said recesses to prevent accidental rotation of the knob, opposed keepers on the mating frame members, and means on said knob to engage said keeper.

2. In combination with a pair of frame members, a bag fastener comprising a post hinged on one of said frame members, said post having a transverse recess, means to resiliently retain said post erect, a stud fixed on the mating frame member, means in said post to engage said stud, a hollow knob rotatable on said stud, and a plurality of recesses in the inner walls of the knob, a spring pressed plunger carried in the recess in the post and adapted to snap into the recess in the knob to hold the latter in an adjustable position, and means on the mating member cooperating with means on the knob to prevent tilting of the latter.

3. In a fastening device for a pair of bag frame members, a post mounted on one of said frame members, a hollow knob rotatably mounted on said post, said post having a transverse recess, a plunger carried in said recess, resilient means in the recess to normally urge the plunger outwardly, and recesses in the inner wall of the hollow knob into which said plunger is adapted to snap to hold the knob in adjusted position.

4. In a fastening device for a pair of bag frame members, a post mounted on one of said frame members, a hollow knob, means for rotatably mounting the knob on the post, said knob having a plurality of recesses in its inner walls and a spring pressed detent carried by the post, said detent being adapted to snap in said recesses to hold the knob in adjusted position.

This specification signed this 16th day of April, 1929.

WILLIAM C. HIERING.