Feb. 9, 1954 J. R. KEYS ET AL 2,668,319

CLOSURE PULL MEMBER

Filed Sept. 25, 1948 3 Sheets-Sheet 1

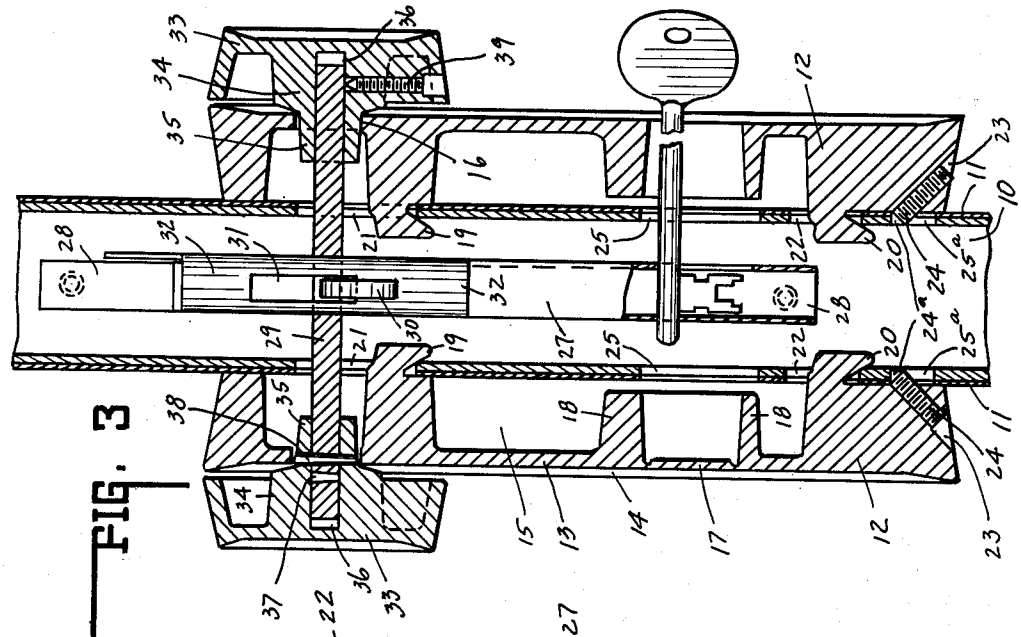

FIG. 3

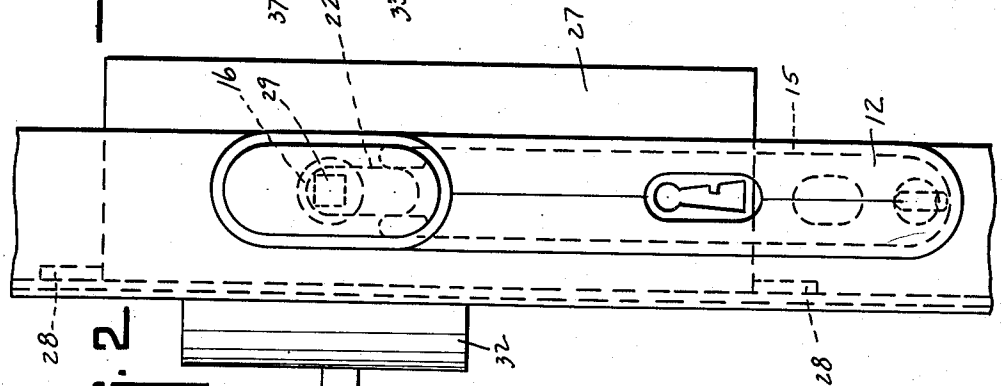

FIG. 2

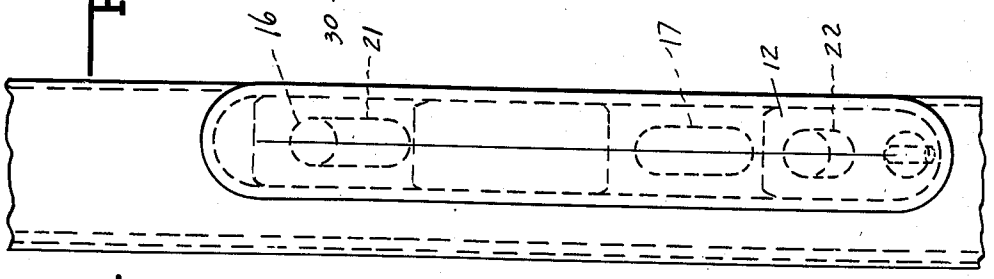

FIG. 1

INVENTORS.
JAMES RILEY KEYS.
HENRY DIXON OBERDORFER
BY CARROLL FAY VAN BUSKIRK.
Lockwood, Goldsmith & Galt,
ATTORNEYS.

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FIG. 6

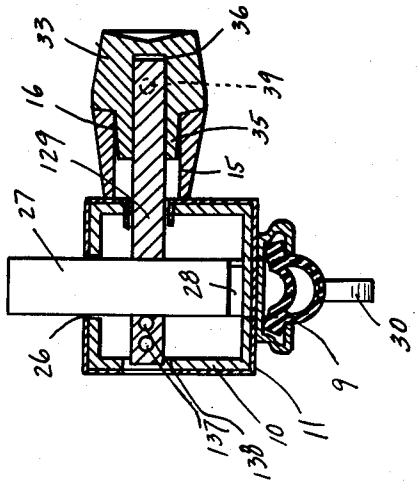


FIG. 5

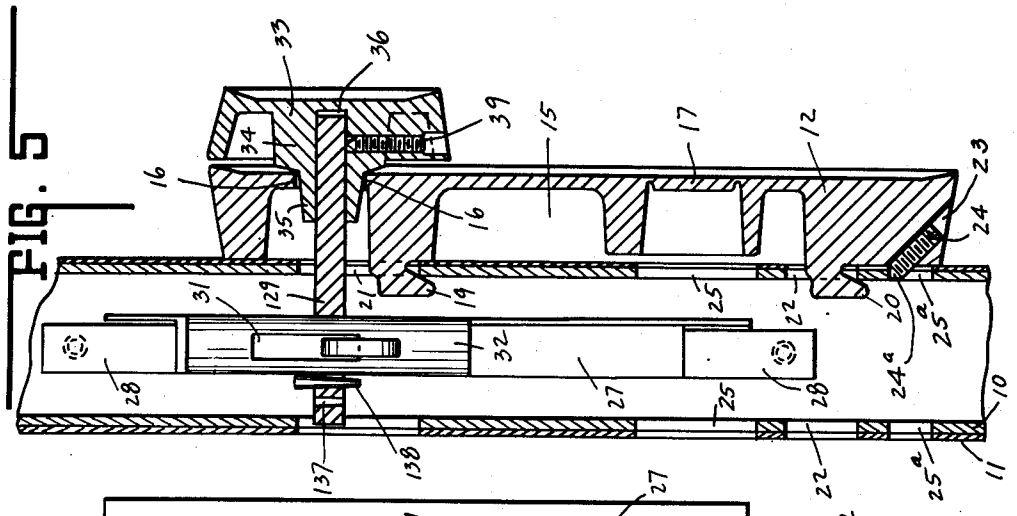
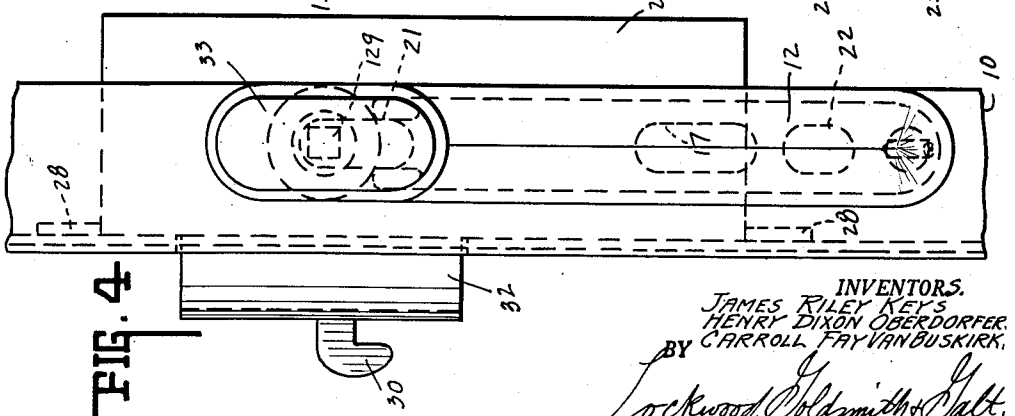


FIG. 4



INVENTORS.
JAMES RILEY KEYS
HENRY DIXON OBERDORFER
CARROLL FAY VAN BUSKIRK.
BY
Lockwood, Goldsmith & Galt,
ATTORNEYS.

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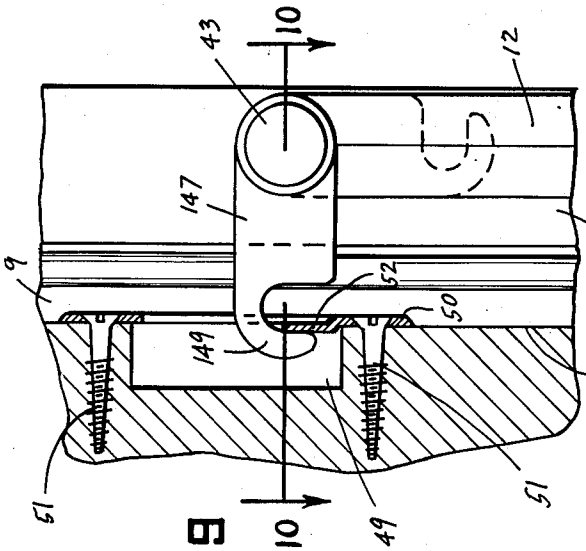

FIG. 9

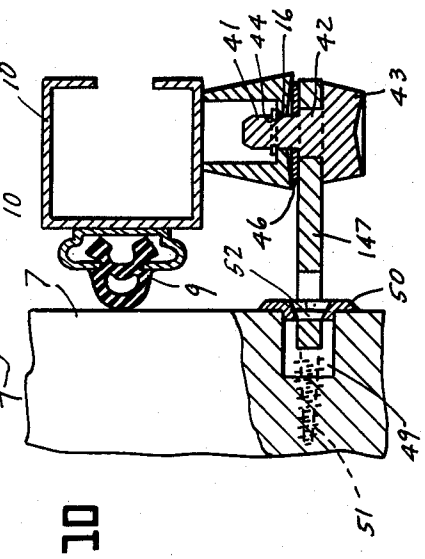

FIG. 10

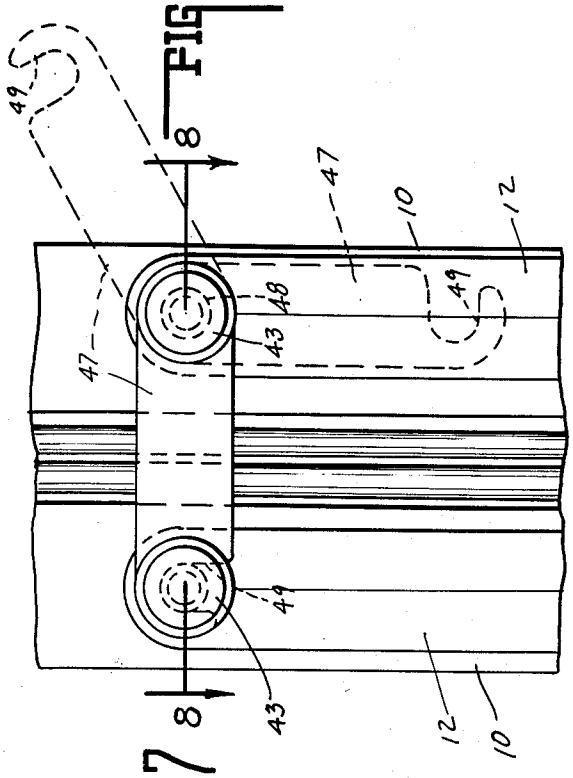

FIG. 7

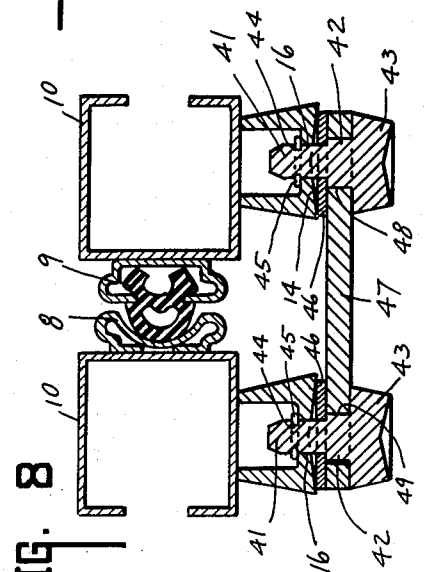

FIG. 8

INVENTORS.
JAMES RILEY KEYS.
HENRY DIXON OBERDORFER.
BY CARROLL FAY VAN BUSKIRK.
Lockwood, Goldsmith & Galt.
ATTORNEYS.

Patented Feb. 9, 1954

2,668,319

UNITED STATES PATENT OFFICE

2,668,319

CLOSURE PULL MEMBER

James Riley Keys, Carroll F. Van Buskirk, and Henry D. Oberdorfer, New Castle, Ind., assignors, by mesne assignments, to New Castle Products, Inc., New Castle, Ind., a corporation of Indiana

Application September 25, 1948, Serial No. 51,144

2 Claims. (Cl. 16—111)

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This invention relates to hardware for doors, foldable closures and the like and primarily is directed to the handle and pull portions thereof.

The chief object of this invention is to provide hardware of the aforesaid type which may be utilized in several forms, all as hereinafter pointed out, the simplest form being common to all and readily lending itself to adaptation for inclusion in the other and more complicated forms of the invention.

The chief feature of the present invention resides in the combination pull and base member and its attachment to a supporting post.

Another feature of the invention resides in the latch application thereto, and knob for manipulating same.

Still another feature of the invention resides in the dual unit application to a single latch.

A further feature of the invention resides in the latch application thereto, same being of the exposed bar type and applied to but one side.

Still a further feature of the invention resides in the dual unit application thereof and applied to but one side.

Other objects and features will be set forth more fully hereinafter.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims:

In the drawings Fig. 1 is a front elevation of a door or closure post with the combination base and pull applied thereto.

Fig. 2 is a similar view of same with a latch embodiment incorporated therein.

Fig. 3 is a vertical sectional view of the aforesaid showing opposed applications to a post including a single latch.

Fig. 4 is an elevational view of a single side operable structure similar to that shown in Fig. 2.

Fig. 5 is a vertical sectional view through the single side unit.

Fig. 6 is a transverse sectional view thereof.

Fig. 7 is a front elevation of the upper portion of two pulls applied to adjacent posts with a lock bar applied in locking position, dotted lines indicating other positions of the latter.

Fig. 8 is a section taken on line 8—8 of Fig. 7.

Fig. 9 is an elevational view of a post-wall application of the invention, the lock bar being associated with a catch plate, said plate and wall being shown in section.

Fig. 10 is a section taken on the line 10—10 of Fig. 9.

In the drawings, 10 indicates a tubular metal closure post to which is attached at opposite sides

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thereof a fabric or covering 11. This post has secured to it a collapsible and extensible framework concealed by said fabric.

When the post is provided with a pull only, as on one side, see Fig. 5, or on both sides, see Fig. 3, there is anchored to such post 10, a combination base and pull member 12, including an elongated base plate 13 having a dished front face 14 and somewhat thicker side walls 15.

Near the top of said base plate 13 there is provided a knock-out portion 16. Spaced therefrom and adjacent the bottom is a second knock out portion 17. The latter is defined by the collar portion 18, the depth of which is less than that of the side walls 15.

Adjacent knock-out 16 and knock-out 17 there is provided a pair of spaced and aligned projecting hooks 19 and 20 projecting into the post 10 through vertically extending aligned slots 21 and 22 respectively provided in the post 10. The ends of the hooks 19 and 20 extend lengthwise of the post 10. Opposite the knock-out 17 there is provided an additional slot 25 in said post.

As shown in Fig. 3 opposite sides of the post may be similarly formed for the mounting of two opposed pulls thereon. Each of the pulls is applied to the post by disposing the hooks 19 and 20 in slots 21 and 22 and forcing them downwardly into post engagement. To prevent upward release thereof a lock screw 24 is screwed inwardly and slantingly upwardly at 23 from the lower end of the base plate until the point 24a engages the edge portion of the tubular member defining slot 25a in said post. Thus each base plate is rigidly anchored to the post by at least two hooks.

So much as hereinbefore described is illustrated in Figs. 3 and 5. When a latch is to be included, the post is slotted as at 26, see Fig. 6, to receive a lock casing 27, spotted in position through straps 28. The lock casing includes the usual internal mechanism and projecting transversely therethrough is the rock shaft 29. Latch member 30 is secured to shaft 29 and projects from slot 31 in an extension 32 of said casing.

Elongated knobs 33 are formed with hubs 34 having extensions 35. The former bear upon the front face 14 of the body portion 13, said extensions seating in the knock-out portion 16. The hubs and extensions are provided with a socket 36 to take the ends of shaft 29. One end of said shaft is cross drilled as at 37 to selectively take a wedge shaped pin 38 carried by the extension of one knob 33, and the set screw 39

locks the other end of shaft 29 to the opposed knob.

In Figs. 4, 5 and 6 a one side latch structure is illustrated. Herein shaft 129 is approximately half the length of shaft 29, to receive the pin 138 in the hole 137. Otherwise the structure is the same as that illustrated and above described in respect to Figs. 2 and 3.

Fig. 3 illustrates in addition to the above, a key operable lock which may be utilized with the form shown in Figs. 4 to 6.

Referring to Figs. 7 and 8, a lock bar type of structure is illustrated. Therein a pair of posts 10 are provided with confronting tongue and groove cushion elements 9 and 8.

Mounted upon each post there is a pull member base as above described, each having an opening 16 through which extends a stem having a head 41, bearing portion 42 and knob 43. Said stem is grooved as at 44 to take a snap lock ring 45. Between the front face 14 of the pull member base and shouldered portion 42 there is provided an adapter washer 46. One of said stems pivotally mounts upon its shouldered portion 42 a lock bar 47 provided with a hole 48 in one end for that purpose. The other end of said bar is notched at 49 to form a catch hook engageable upon the shouldered portion 42 of the other said stem when the two posts are in cushion engagement and the bar 47 is rotated counterclockwise.

Referring to Figs. 9 and 10, the post 10 includes bumper cushion 9 adapted to engage a wall 7. Said wall is recessed at 49 and disposed thereover is catch plate 50 suitably secured to the wall as by screws 51. Herein the stem carrying the knob 43 pivotally supports a shorter lockbar 147 having a hook portion 149 engageable with the catch portion 52 of the catch plate.

From the foregoing it will be noted that a common base and pull member is utilized in all forms of the invention illustrated and described, and to the same may be applied crossbars and latches as desired or required.

While the invention has been illustrated and described in great detail in the drawings and foregoing description, the same is to be considered as illustrative and not restrictive in character.

The several modifications described herein as well as others which will readily suggest themselves to persons skilled in this art, all are considered to be within the broad scope of the invention, reference being had to the appended claims.

The invention claimed is:

1. The combination with a tubular metal closure post having a plurality of spaced longitudinally aligned slots, of an elongated pull member seated on the surface of said post, said pull member including a pair of projecting hooks slidably engaged with edge portions of said post defining two of said slots respectively to slidably secure said pull member to said post, and a lock screw threaded in said pull member at an acute angle to the longitudinal axis of the post with its inner end engaged with an edge portion of said post defining another one of said plurality of slots to clamp said projecting hooks to the post to prevent unintentional slidable release of said pull member from said post.

2. The combination with a tubular metal closure post having a plurality of spaced longitudinally aligned slots, of an elongated pull member seated on the surface of said post, said pull member including a projecting hook slidably engaged with the edge portion of said post defining one of said slots to slidably secure said pull member to said post, and a lock screw threaded in said pull member at an acute angle to the longitudinal axis of the post with its inner end engaged with an edge portion of said post defining another one of said slots to clamp said projecting hook to the post to prevent unintentional slidable release of said pull member from said post.

JAMES RILEY KEYS.
CARROLL F. VAN BUSKIRK.
HENRY D. OBERDORFER.

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