This invention relates generally to hardware for doors, drawers and the like, and more particularly to a combined door pull and catch combination which can be assembled and sold as a complete ready-to-install unit.

A primary object of this invention is to provide a combined door pull and catch which is suitable for use with such devices as metal cabinets, lockers, hinged doors generally and sliding drawers and the like, the device being capable of being assembled prior to sale and ready for incorporation with the closure member such as the door or drawer.

Another object of this invention is to provide a device of the character mentioned above, in which the rollback and a shoulder on a shank portion of the door pull are used, in combination with other parts, to retain the door pull within the assembly, while allowing rotation of the door pull so as to actuate the latch mechanism.

Another object of this invention is to provide a device of the character mentioned above in which the escutcheon plate and the main casing for the latch mechanism are formed integral with each other and the door pull and escutcheon plate are so formed that the fingers of a person operating the closure member may be readily inserted behind the handle portions of the door pull, all without necessitating the protrusion of the door pull any great distance in front of the escutcheon plate, the advantages of this construction, from the viewpoint of easy cleaning and safety as well as from the aesthetic viewpoint, being obvious and important.

And the last object to be mentioned specifically is to provide a device of this character which is generally adapted for mass production, which is relatively inexpensive and practicable to manufacture according to accepted manufacturing procedures, which is simple, safe and convenient to use, and which will give excellent and efficient durable service.

With these objects definitely in view, this invention resides in certain novel features of construction, combination and arrangement of elements and portions as will hereinafter be described in detail in the specification, particularly pointed out in the appended claims, and illustrated in the accompanying drawings, in which:

Figure 1 is an exploded view showing the parts of the invention in perspective;

Figure 2 is a front elevational view of the assembled device;

Figure 3 is a vertical sectional view, taken substantially on the line 3--3 in Figure 4; and

Figure 4 is a horizontal sectional view taken substantially upon the section line 4--4 in Figure 2.

Similar characters of reference designate similar or identical elements and portions throughout the specification and throughout the different views in the drawings.

Referring now to the drawings in detail, this device includes a casing 10 which has the general configuration of a hollow cylinder and which is integrally secured to the inward or reverse side of an escutcheon plate 12 having apertures 14 for reception of escutcheon plate attaching screws 16. It should be noted that the escutcheon plate 12 is recessed or dished as indicated at 18, and this escutcheon plate will ordinarily be secured by the screws 16 within a suitable opening in a closure member 20 such as a hinged door, front vertical panel of a sliding drawer, or the like. The plate 12 has a central boss which may be considered as extending within the recess 18, and this boss 22 is axially bored at 24 to provide a bearing for the shank portion 26 of the substantially T-shaped door pull generally indicated by the numeral 28. The door pull 28 has a shoulder 30 which frictionally abuts the boss 22 to limit the movement of the door pull in one direction relative to the assembled device, and the door pull also has a pair of diametrically disposed handles or grips 32 which are recessed as at 34 on the sides thereof adjacent to the escutcheon plate 12. It should be carefully noted that the recess 18 and the recessed portions 34 of the door pull are opposite each other and that this construction allows the grips to recede into the "well" thus provided and also allows the entrance of the fingers of a person operating the closure member 20, so that the turning of the door pull to unlatch the device, and the use of the door pull as such, is greatly facilitated, without the necessity of having the door pull project any great distance beyond the front of the escutcheon plate.

The end of the shank 26 remote from the handles 32 is squared as indicated at 36 to receive a rollback 38 having a square aperture therein and a cotter key 40 or the like is inserted through the squared portion 36 to hold the rollback in position and to prevent the shifting of the door pull axially of the assembled device when tension is placed by a person's fingers on this door pull. This simple construction also involves the provision of a bifurcated portion 42 on the bolt 44, it being understood that this bifurcated portion 42 frictionally abuts what may be considered the rear face of the escutcheon plate 12 and the
bolt 44 is received and guided by the opposing ends of the casing 10 where this casing is divided as indicated at 46, as clearly shown in Figure 1, it being also understood that the bifurcated portion 42 will straddle the shank 26 so that the bolt is prevented from movement except in one plane. The bifurcated portion 42 terminates in a pair of lugs 48 which are engaged by the extending portions 50 of the rollback 38, according to well understood and conventional practice.

A rear plate 52 is secured by means of screws 54 to cover the end of the casing 10 remote from the escutcheon plate 12. Finally, a post 56, preferably integral with the escutcheon plate 12 extends in an axial direction but eccentrically of the casing 10 and is used to secure a spring 58 in position with its ends engaging a portion of the casing 10 and one of the lugs 48 on the bolt, so as to bias the bolt in one direction against the action of the rollback 38 when the latter is rotated by the door pull 28. It is thought unnecessary to further describe the action of this spring since such constructions are conventional.

The operation of this invention will be clearly understood from a consideration of the foregoing description of the mechanical details thereof, taken in connection with the drawings and with the above recited objects of this invention. The drawings and specification are proposed as illustrative rather than limiting and minor variations from the embodiment described may be resorted to without departure from the spirit and scope of this invention.

Having described the invention, what is claimed as new is:

1. For use in the construction of a combination catch and drawer pull, an escutcheon plate having a central recessed portion with a central bearing projecting in the recess, an outstanding marginal attaching flange carried by the wall of the recessed portion and an annulus carried by and projecting laterally away from the bottom of said recessed portion, a cover for said annulus transforming the latter into a casing for a catch mechanism, and a T-shaped drawer pull having a shank rotatable in said bearing and a head forming finger grips, the latter being nested partly within the confines of said recess.

2. A door pull and catch combined comprising a single casting embodying a casing having an escutcheon plate integral therewith, a door pull rotatively mounted on and having a shank extending through said plate into said casing, a bolt slidably mounted for operation in said casing, spring means cooperating with and biasing the bolt in one direction, means operatively connecting said bolt with said shank, said door pull having a shoulder engaging a portion of said escutcheon plate to prevent axial movement of the door pull in the opposite direction, said door pull having diametrically disposed handles provided with recesses on the sides thereof adjacent to said plate, said last mentioned portion being a central boss and said escutcheon plate having an annular recess opposite to the recesses in the handles to facilitate entrance of a person's fingers behind said handles, said escutcheon plate having walls dimensioned to span a door panel whereon the device is used so that said casing is supported by said escutcheon plate and disposed on the side of the panel remote from said door pull.

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