A. F. ERICKSON.

LOCK MOUNTING PLATE.

APPLICATION FILED APR. 26, 1919.

1,327,426.

Patented Jan. 6, 1920.

Fig. 1.

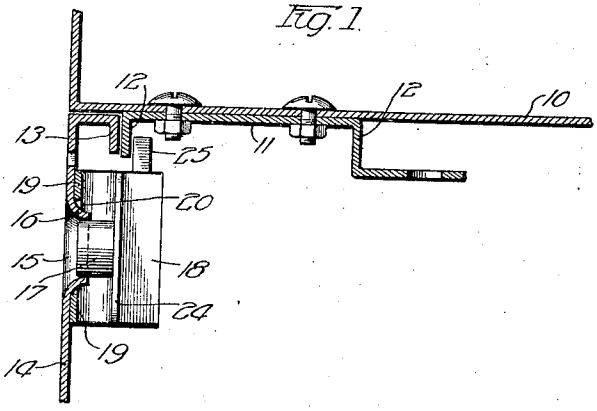


Fig. 2.

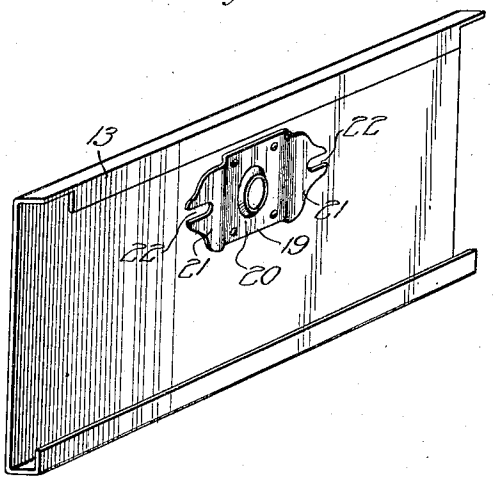
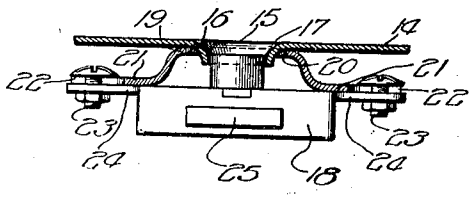


Fig. 3.



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UNITED STATES PATENT OFFICE.

AXEL F. ERICKSON, OF AURORA, ILLINOIS, ASSIGNOR TO THE ALLSTEELEQUIP COMPANY, OF AURORA, ILLINOIS, A CORPORATION OF ILLINOIS.

LOCK-MOUNTING PLATE.

1,327,426. Specification of Letters Patent. Patented Jan. 6, 1920.

Original application filed May 31, 1918, Serial No. 237,590. Divided and this application filed April 26, 1919. Serial No. 292,831.

To all whom it may concern:

Be it known that I, AXEL F. ERICKSON, a citizen of the United States, and a resident of Aurora, Kane county, Illinois, have invented certain new and useful Improvements in Lock-Mounting Plates, of which the following is a specification.

My invention relates to means for mounting locks in drawers, cabinets and the like, and has special applicability for use with metal structures where the assembly and adjustment of the lock and disassembly for repair would, without my device, be a matter of some difficulty.

Among the objects of my invention is the provision of a lock mounting structure that will afford facilities for adjustment and will permit the positioning of the key-barrel of a cabinet-lock so that it will not project beyond the vertical plane of the front wall of the drawer. Another object is the provision of a structure of this kind that will securely mount the lock so that it will not work loose or become displaced. Among the further objects of my invention are economy of manufacture, saving of space, ease and convenience of installation, and dependability in operation.

The above and other objects I prefer to accomplish through the instrumentalities heretofore described and as more specifically pointed out in the claims. I will now refer to the accompanying drawings that form a part of this specification, wherein,—

Figure 1 is a vertical sectional view of a fragmentary portion of a metal drawer structure with my invention incorporated thereon.

Fig. 2 is a perspective view of the inside front wall of the drawer, with my lock-mounting plate secured thereto.

Fig. 3 is a horizontal section taken on line 3—3, of Fig. 2, looking in the direction of the arrows, with a cabinet-lock installed.

In the drawings I have employed similar reference characters to designate the same parts throughout the divers views. The subject-matter of this application is a division of a co-pending application for Letters Patent of the United States filed by me May 31, 1918, bearing Serial Number 237,590, for improvements in "drawer construction," wherein the drawer is supported in guides in a suitable supporting plate 10, secured to the underside of a work-bench or table. A stop or jamb-plate 11, of suitable shape, is secured to the plate 10 and has a downwardly projecting member 12, that depends therefrom a slight distance back of the front or forward edge of the plate 10, where it may be engaged by the lateral member of an L-shaped flange 13 formed along the top edge of the front plate 14 of the drawer. If desired, I may employ a structure for this purpose that is similar to the jamb-plate disclosed in my aforesaid co-pending application, which is set forth and claimed in another application for Letters Patent of the United States executed by me even date herewith, for improvement in "jamb-plates." While my lock-mounting plate is desirable in connection with the specific form of metal drawer herein illustrated, it will be readily perceived that the lock-mounting plate may also be employed to advantage with other and different constructions of metal drawers and with drawers constructed of materials other than metal, and, in fact, can be used to advantage for the mounting of locks in all structures in which locks are desired to be mounted.

At a convenient location, the front plate 14 is provided with an aperture 15, preferably circular in shape, that is surrounded upon the inside of the plate by a tubular member or stub 16, which may be formed by stamping out an embossment in the metal of which the front plate is made, as shown in the drawings.

It is desirable in structures of this kind to position the key-barrel 17, of the lock 18, either flush with or slightly back of the vertical plane of the front plate 14, so that there will be no projections along the same. In order to do this, I employ the lock-mounting member illustrated in the drawings that preferably comprises a substantially rectangular shaped base 19, that is riveted, welded or otherwise suitably secured to the rear surface of the front drawer plate 14, and has a centrally disposed aperture 20, that surrounds the tubular embossment 16. This base 19 has oppositely disposed lateral wings or extensions 21, 21, that project horizontally from the vertical sides thereof, that are offset or raised away from the plate 19 a slight distance, as shown in Fig. 3 of the drawings, and are provided

with open-ended slots 22, 22, to receive the bolts 23, 23, or the like, for securing the body of the lock to said mounting-plate. The cabinet-lock I employ preferably has oppositely arranged lateral ears 24, 24, that are apertured to receive the bolts 23, or other securing means, that pass through the apertures and through the slots 22 in the wings 21 of the mounting plate. This will position the lock so that its retractable element 25 will be projected back of the lateral member 12 of the jamb-plate to lock the drawer when the latter is closed, and the slots 22 will permit of the adjustment of the lock to take care of any slight inaccuracies of construction or stamping.

While I have illustrated and described specific means for carrying out my invention, I desire it understood that changes or refinements are possible without materially departing from the principles involved, and all such modifications of the structure are contemplated in the scope of the appended claims.

What I claim is:—

1. In a structure of the kind described, a wall provided with a lock opening, a lock, and means for mounting said lock consisting of a plate surrounding said lock opening and provided with offset portions that are disposed in opposite directions and to which the lock is removably secured.

2. In a structure of the kind described a wall provided with an inwardly embossed opening, a lock having its key-barrel positioned in said opening, and a mounting plate having a central opening also fitting said lock barrel and provided with offset members to which the lock is attached.

3. Means for mounting locks in drawers comprising a plate fitted to the front wall of a drawer the body portion of said plate being of substantially rectangular shape and provided with a central aperture for the passage of the barrel of a lock, and lateral wings offset from the plane of the body portion and provided with open-ended slots to receive elements to secure the lock to said plate.

4. In a structure of the kind described a wall provided with a suitable opening, a tubular member surrounding said opening and extending inwardly from said wall, a lock having a key-barrel positioned in said tubular member, and a lock mounting plate provided with a central opening fitted on said tubular member and said plate provided with offset extensions to which the body of the lock is secured.

5. A fitting for a drawer comprising a base adapted to be secured to the front wall of a drawer, said base having offset apertured extensions projecting in opposite directions and are adapted for adjustably receiving and securing a lock.

6. A structure of the kind described including an apertured front plate, in combination with a fitting comprising a perforated base arranged in registry with the aperture in said plate, and offset slotted extensions projecting in opposite directions on said base for adjustably receiving and securing a lock.

7. A wall having an inwardly projecting tubular embossment, in combination with a fitting comprising a perforated base surrounding said embossment and provided with offset slotted extensions projecting in opposite directions and to which a lock is adjustably secured.

Signed at Aurora, county of Kane and State of Illinois, this 27th day of March, 1919.

AXEL F. ERICKSON.

Witnesses:
ADAM F. BACKES,
JOHN E. CARR.