

UNITED STATES PATENT OFFICE.

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LOCK.

952,118.

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To all whom it may concern:

Be it known that I, HENRY FRANCIS KEIL, a citizen of the United States of America, and a resident of Bronxville, in the county of Westchester and State of New York, have invented a certain new and useful Lock, of which the following is a specification, the same being a full, clear, and exact description of the invention, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to appliances for securing in position doors and like movable articles, and in particular to locks and latches having a combined escutcheons and face plate the lock mechanism being built upon one of the escutcheons, and which embody certain novel features of construction and combination and arrangement of parts, and are of simple construction and efficient in operation, all of which will be hereinafter described and fully illustrated in the drawings.

To attain the desired end, this, my invention, consists in the construction, arrangement and operation of parts herein set forth.

In order to enable the invention to be fully understood, I will proceed to explain the same by reference to the drawings of one embodiment of my invention, which accompany and form a part of this specification, and in which—

Figure 1, represents a plan view of a lock constructed according to my invention, Fig. 2 is a view in detail of my face plate expanding device, and Fig. 3 is a perspective view of the interior of my combined escutcheons and face plate.

Like letters of reference indicate like parts in all the views.

Referring particularly by letter to the drawings A, A¹, denote my combined escutcheons and face plate which rests against the sides of a door and extends around its front edge and overlaps the notch C and which is preferably made of sheet metal. The combined escutcheon plates A and face plate A¹ is of a unitary construction, and, so far as its function in supporting within the same the lock mechanism D and in serving as a covering for the notch or recess is concerned, may be considered as an entirety no matter whether it is integral and is made of a single piece of metal, as shown in Fig. 3, or whether it is composed of a plurality of

plates rigidly fastened together, as illustrated in Fig. 1.

B designates the knobs, and B¹ the shanks of the same and B² are the knob roses, the shanks being secured to the knob spindle b⁴ by screws b⁵.

The lock mechanism is built upon one (or both) of the escutcheons which therefore may be considered as forming a part of the lock case.

The lock case is preferably inserted into a recess, notch or depression C formed in the side of the door, ordinarily by simply cutting out in the side of the door a portion equal to the depth of the lock case, and the top and bottom edges a, a¹, of the combined escutcheons and face plate being of greater dimensions or size than the opening or recess in the door, overlap the same, and thereby entirely cover or frame in the recess and conceal any possible poor cutting out of the door, in the event of the same being carelessly or hastily done.

The combined escutcheons and face plate not only forms a protection to the wood of the door, but the said structure is very readily applied and quickly attached to the door by simply slipping the combined escutcheons and face plate over the edge of the door and then screwing the escutcheons in place, after which the knob spindle b⁴ is passed through the lock hub in the ordinary manner.

This invention is applicable to all kinds of doors to which mortise or any locks can be attached, and is manifestly applicable to both locks and latches or a combination of the two.

I provide simple means for adapting my combined escutcheons and face plate to be used for doors of different thicknesses, which preferably consists in making the same so as to be expandible as regards the width of the face plate, as, in the present embodiment, by forming the same with a plaited or folded face plate, with fold or plait a² of the same ordinarily lying between the lock case and the extension of the escutcheon.

In case the combined escutcheons and face plate is applied to a thin door, the fold a² will be closed, but in the event of the structure being used in connection with and attached to a thick door, the fold will be opened somewhat when the combined es-

cutcheons and face plate is forced on the edge of the door in order that the expanded face plate may register with and conform to the edge of the door. The shank of the screw E may work in a threaded hole d^3 in the side of the lock case and may be operated by a tool inserted in the orifice a^3 formed in the extension of the escutcheon by which means the fold or plait a^2 of the face plate may be spread apart and the adjustment or expansion of the face plate regulated.

I wish it to be understood that I do not desire to be limited to the exact details of the construction shown and described for obvious modifications within the scope of the claim will occur to a person skilled in the art.

What I claim as my invention is:

In a lock a combined escutcheons and face plate of unitary construction to rest against the sides of a door and extending around its front edge, and a lock mechanism built upon one of the escutcheons the face plate being formed with a fold or plait in the same, and means to expand the said fold or plait, consisting of a controlling screw located exterior of and working against the lock casing.

In testimony of the foregoing specification I do hereby sign the same in the city of New York, county and State of New York this 28th day of June 1906.

HENRY FRANCIS KEIL.

Witnesses:

F. A. WURZBACH,
CHAS. H. ARENDT.