H. F. KEIL.

LOCK.

APPLICATION FILED AUG. 21, 1906.

951,734.

Patented Mar. 8, 1910.

2 SHEETS—SHEET 1.

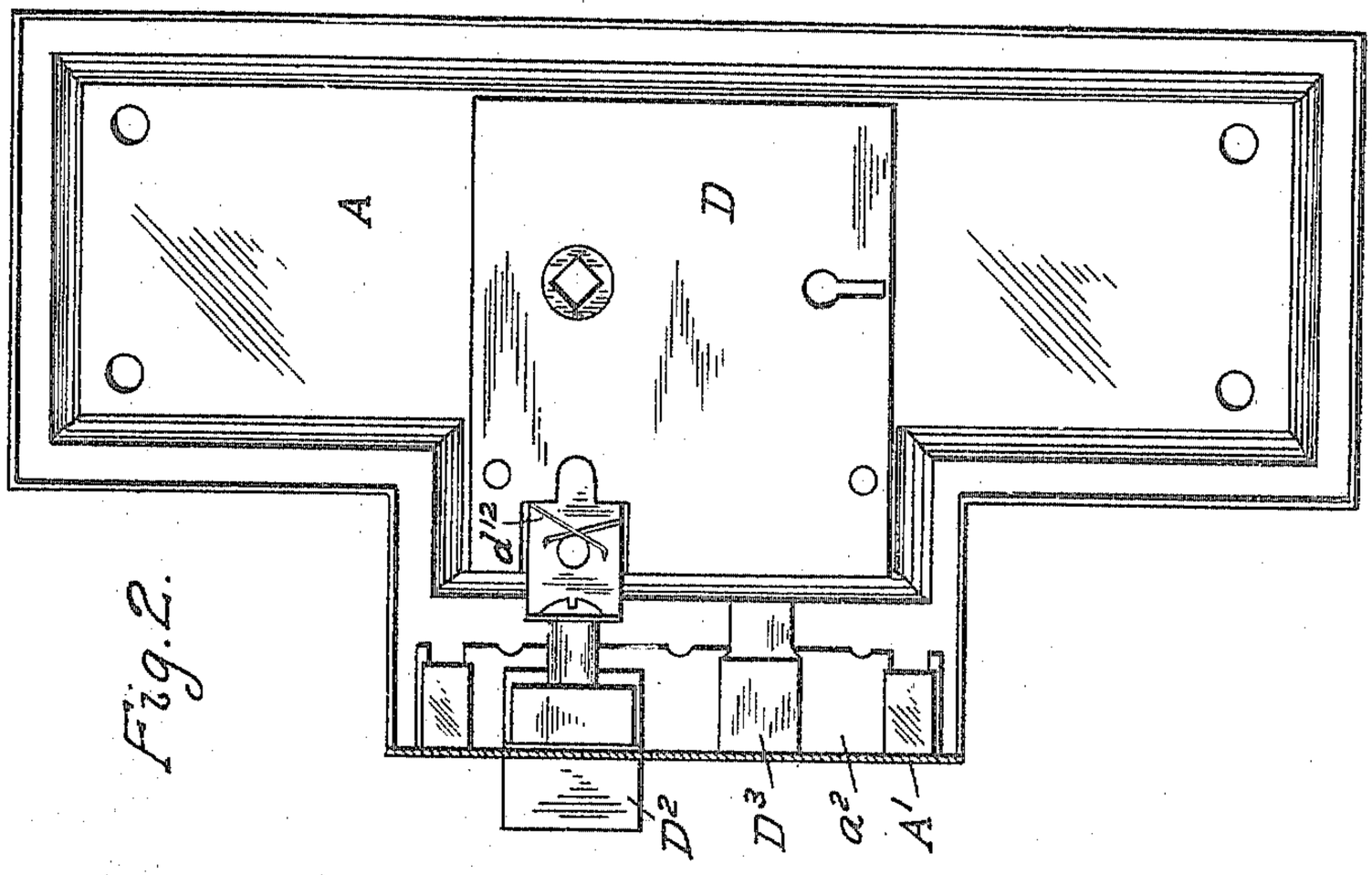

Fig. 2.

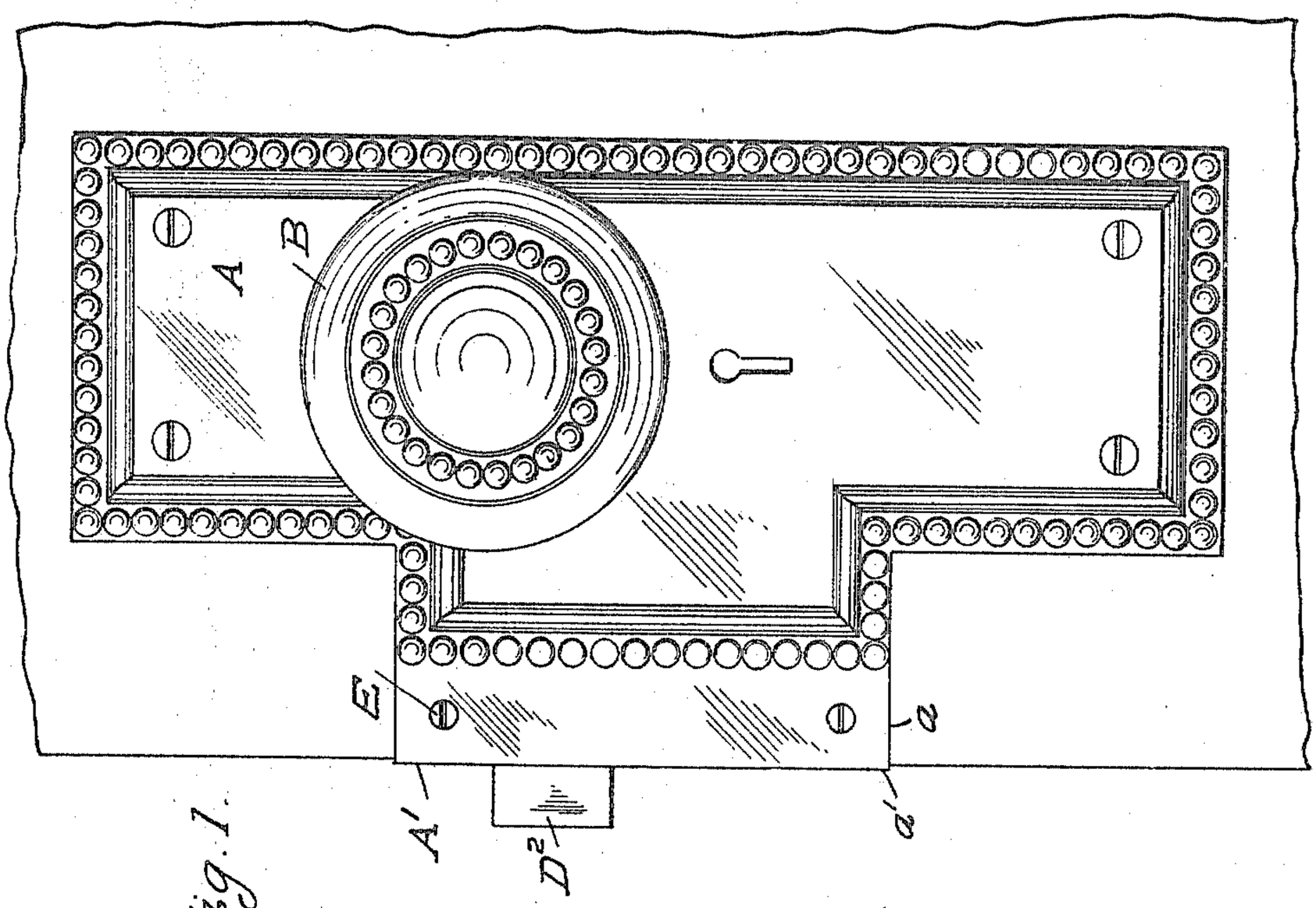

Fig. 1.

Witnesses:
Rob. Lelwary
Royal W. Smith

H. F. Keil Inventor
By his Attorney J. O. Fowler

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2 SHEETS—SHEET 2.

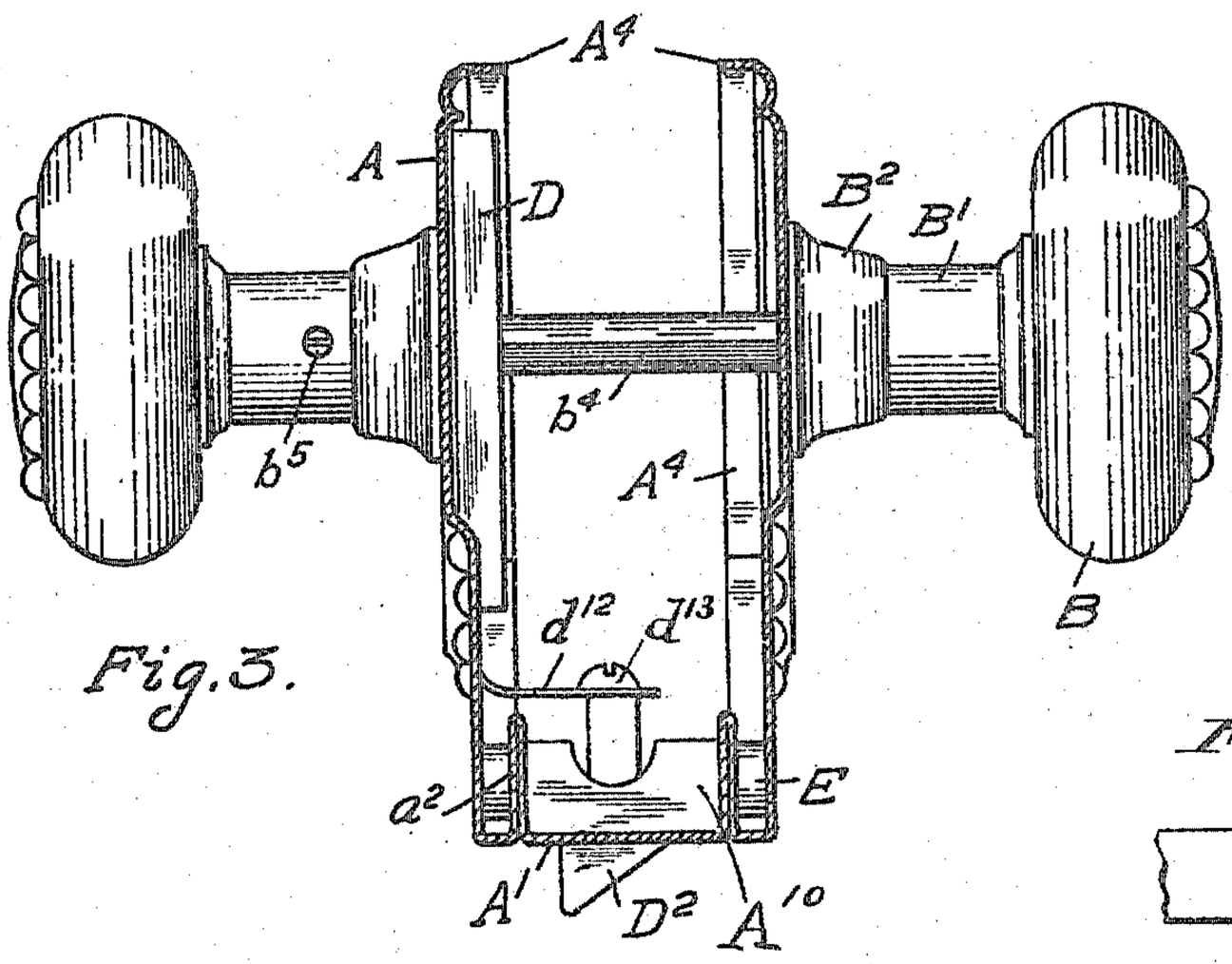

Fig. 3.

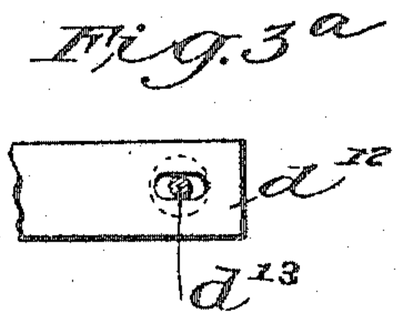

Fig. 3a

Fig. 4.

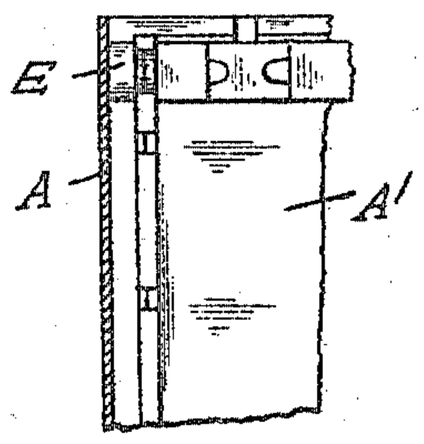

Fig. 5.

Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY FRANCIS KEIL, OF BRONXVILLE, NEW YORK.

LOCK.

951,734. Specification of Letters Patent. Patented Mar. 8, 1910.

Application filed August 21, 1906. Serial No. 331,539.

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 doors and like movable articles, and in particular to locks and latches having a combined escutcheon and face plate, wherein the lock mechanism is inclosed within an escutcheon and which embody certain novel features of construction, combination and arrangement of parts, 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—

Figures 1 and 2 are side elevations of the lock, one of the escutcheons being removed in Fig. 2; Fig. 3 is a view in section and Fig. 3^a is a view in detail representing a front view of a bar d^{12}, shown in Fig. 3, the screw head being removed; Fig. 4 is a view in section; and Fig. 5 is a view of my face plate expanding mechanism.

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

Referring particularly by letter to the drawings A, A^1 denote my combined escutcheon 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 escutcheons A and face plate A^1 is of a unitary structure, 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, or whether it is composed of a plurality of parts rigidly fastened together.

The lock bolt and latch mechanism connected therewith are preferably inserted into a recess or notch or depression C formed in the edge of the door, and the top and bottom edges a, a^1 (or, as it were, flanges of the escutcheons plates 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.

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 expansible as, regards the width of the face plate, as, in the present embodiment, by forming the same with a plaited or folded face plate, the folds or plaits a^2 of the same ordinarily lying between the extensions of the escutcheons.

In case the combined escutcheons and face plate is applied to a thin door the folds a^2 will be closed, but in the event of the structure being used in connection with and attached to a thick door, the folds will be opened somewhat when the combined escutcheons 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 edges of the door. The shanks of the screws E may work in threaded holes in abutting means, as the part A^{10} located adjacent to the face plate, and forward of the lock mechanism, and may be operated by a tool inserted in the orifices a^3 formed in the extensions of the escutcheons, by which means the folds or plaits a^2 of the face plate may be spread apart and the adjustment or expansion of the face plate regulated.

The lock D is made so as to be a complete structure of itself and preferably independent of the escutcheons, and is constructed in such a manner as to be inclosed within the turned down edges A^4 of the escutcheon which lies on the side of the door and to be contained between the said escutcheon and the side face of the door the escutcheon be-

ing thus made with a preferably central raised portion for that purpose.

The device may be made with a lock on only one side of the door, as shown in Fig. 3, but it may be constructed so as to have a lock on each side of the door as in Fig. 4 each lock mechanism being inclosed or contained within its respective escutcheon, in which latter case the common latch D^{12} is respectively connected by a bar d^{12} having a slot, and forming with the screw d^{13} working therein an expansible connection between the latch bolt D^2 and the lock casing to allow for the expansion of the face plate, and adapted to operate the latch bolt D^2 upon the manipulation of a knob is similarly connected with each of the key operated parts of the locking mechanism.

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 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 to rest against the sides of a door and extending around its front edge, a fold or plate whereby the face plate is adapted to be expanded in width, a lock mechanism located within the escutcheons, knobs for the lock mechanism, a latch bolt, and means consisting of a bar, forming an expansible connection consisting of a screw and slot between the latch bolt and lock casing to allow for the expansion of the face plate, and adapted to operate the latch bolt upon the manipulation of a knob.

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 27 day of July, 1906.

HENRY FRANCIS KEIL.

Witnesses:
F. A. Wurzbach,
Chas. H. Arendt.