

(No Model.)

F. E. FISHER.

PUSH BUTTON.

No. 336,003.

Patented Feb. 9, 1886.

Fig. 1

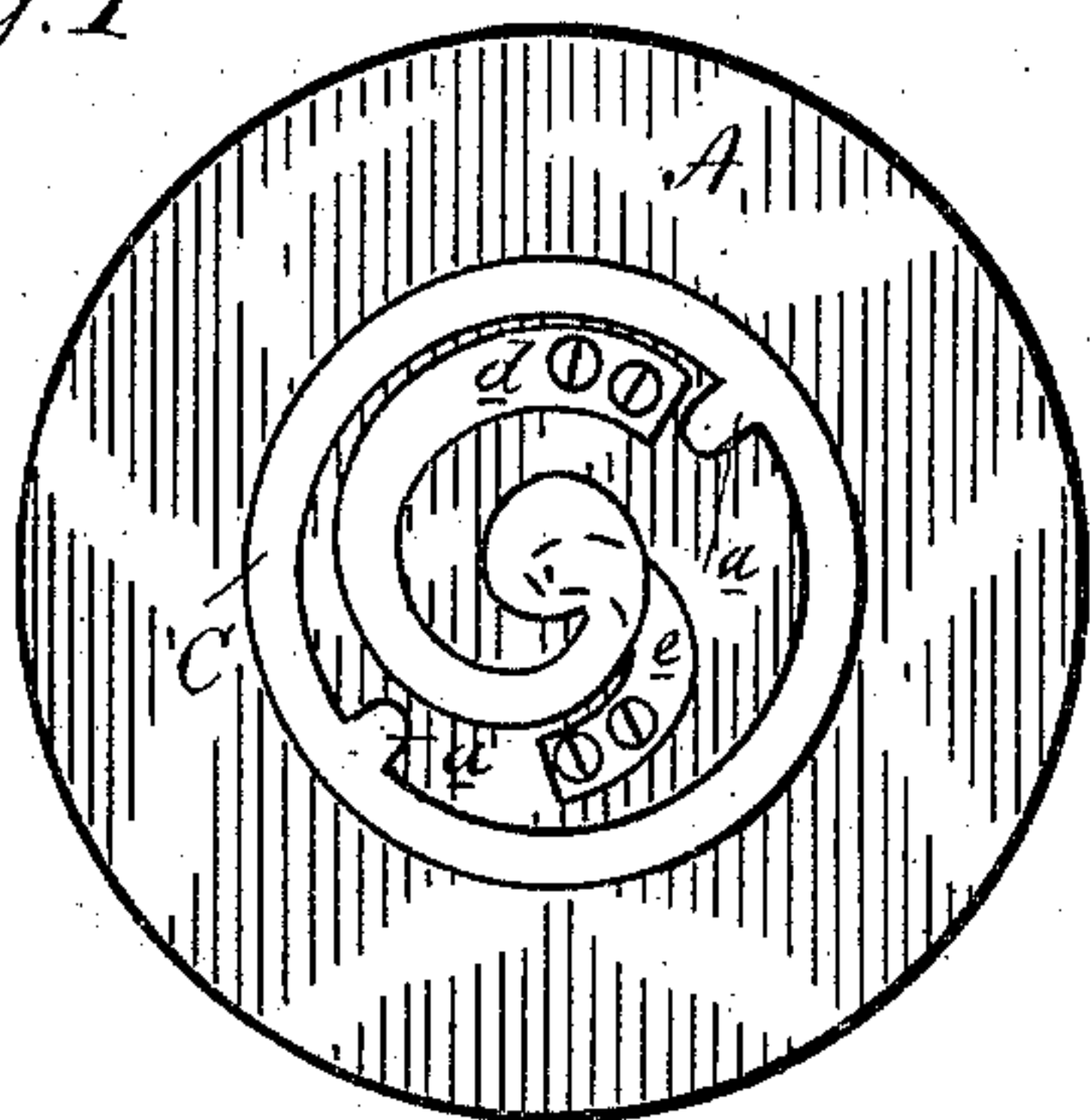


Fig. 2

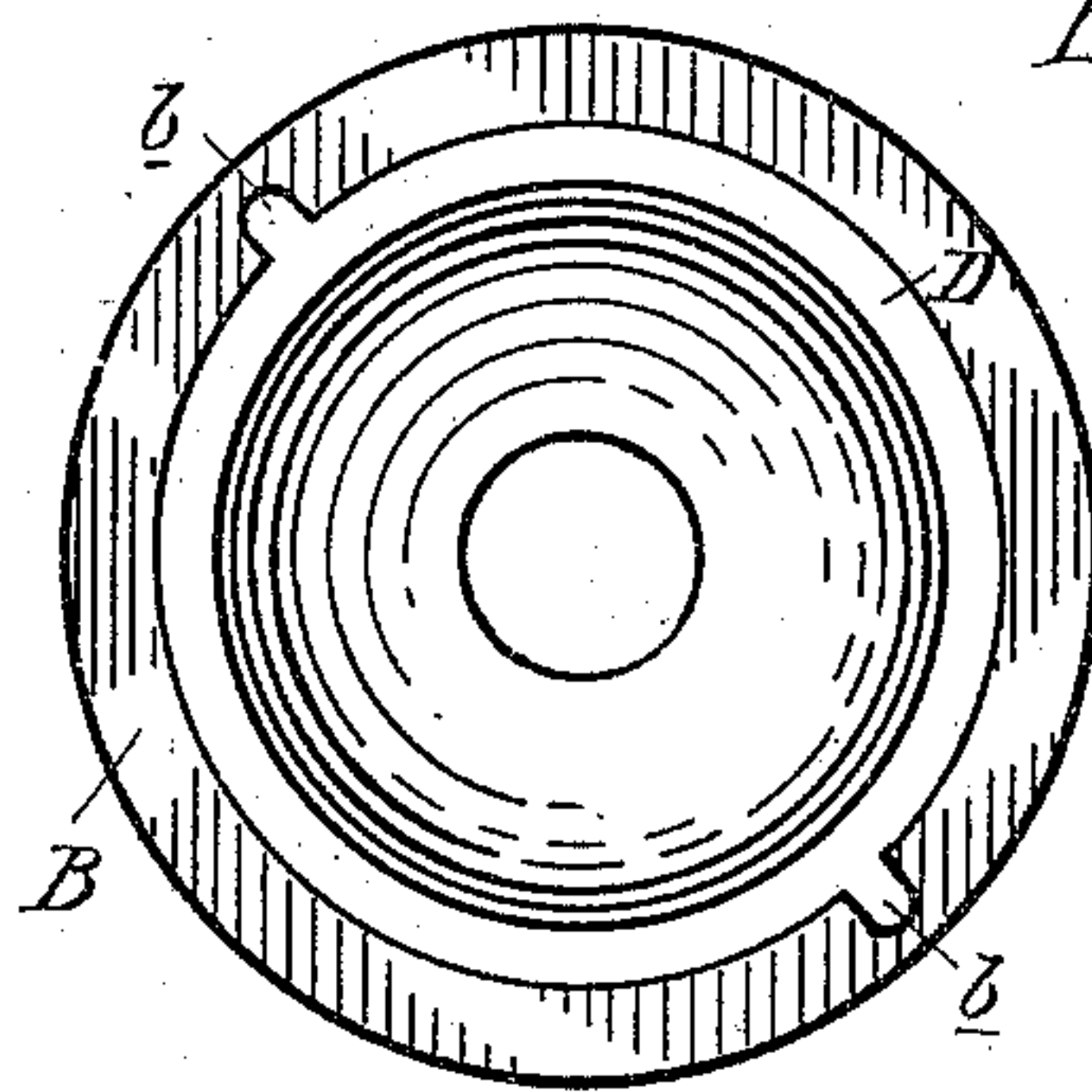


Fig. 3

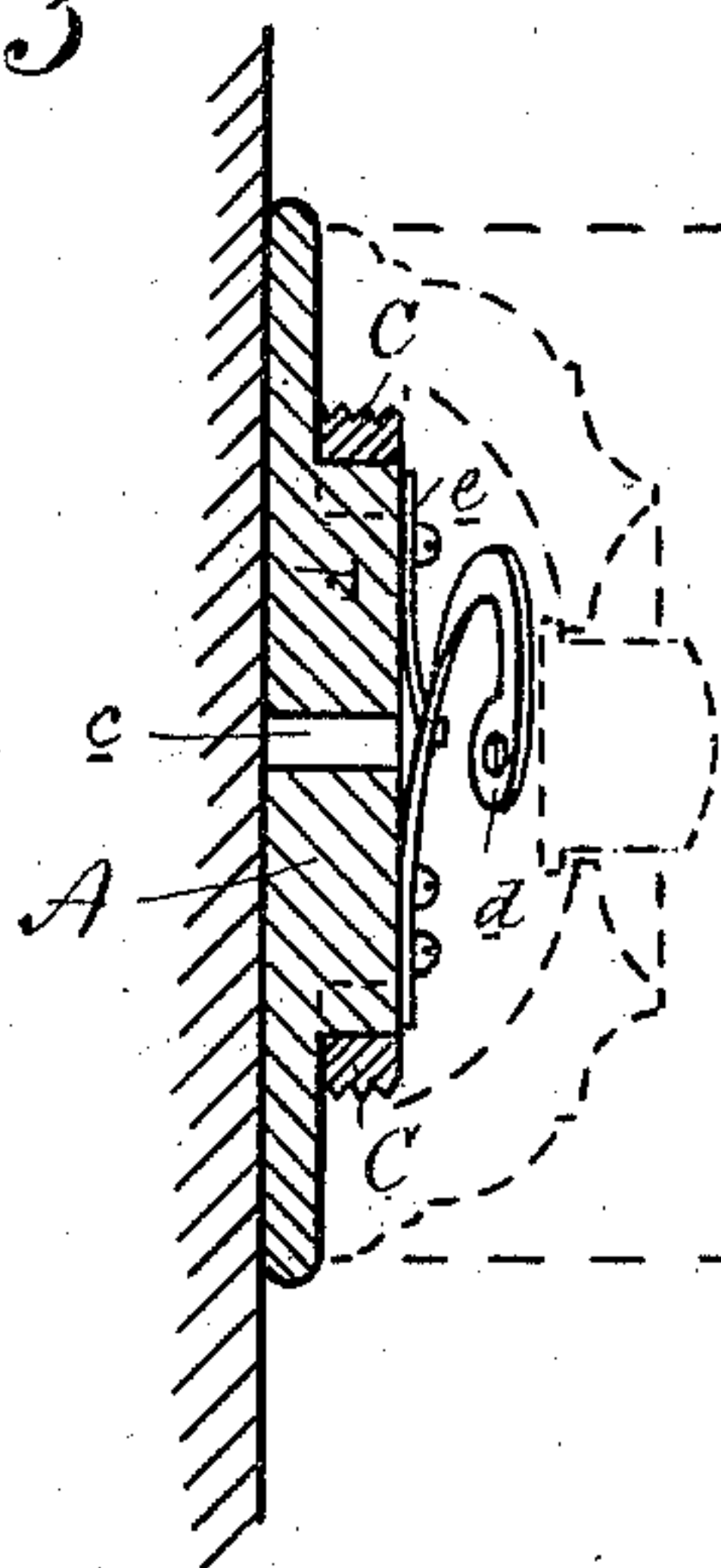
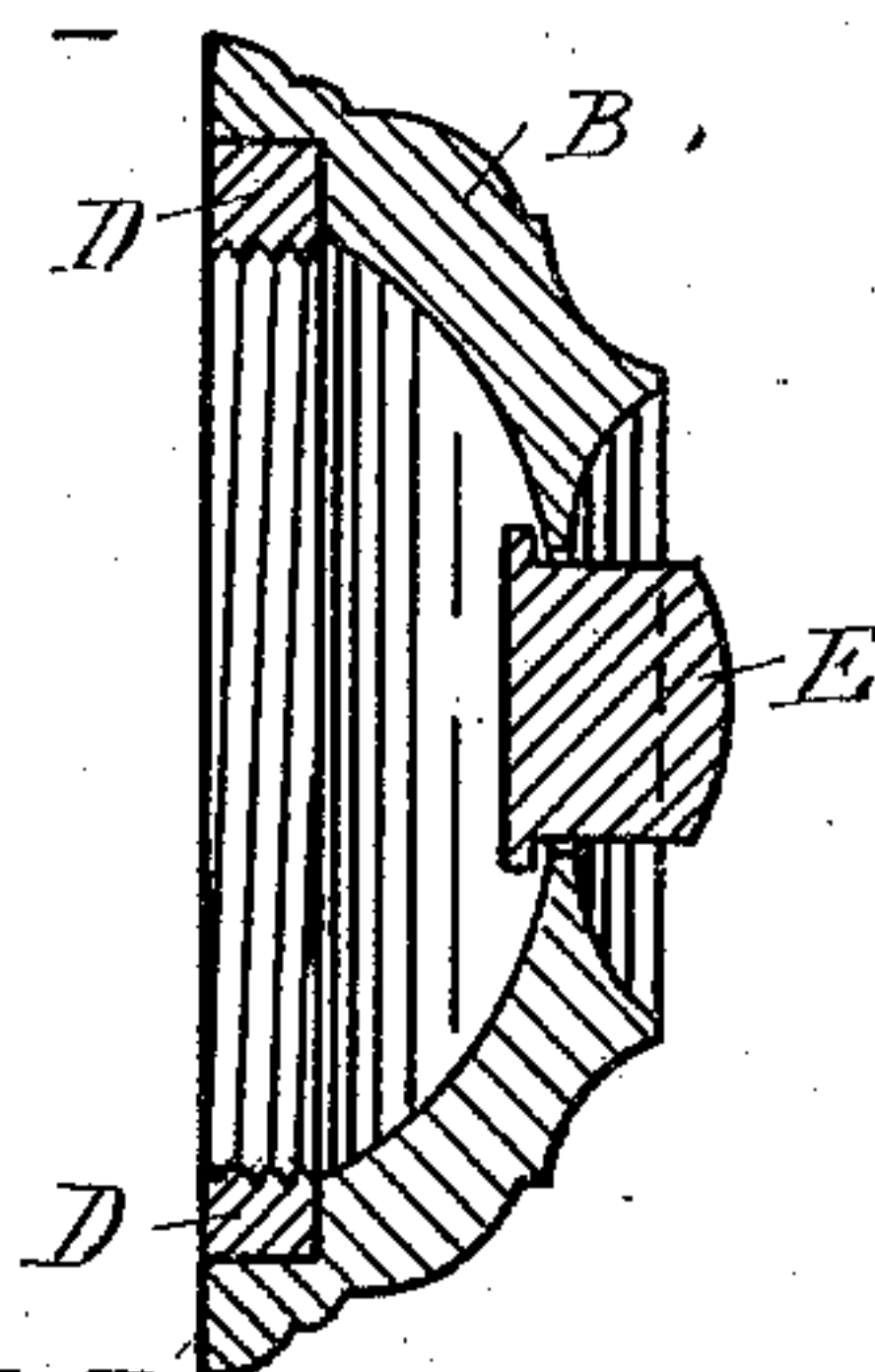


Fig. 4



Witnesses

Sumner Leaping
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Inventor

Frank E. Fisher
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UNITED STATES PATENT OFFICE.

FRANK E. FISHER, OF DETROIT, MICHIGAN.

PUSH-BUTTON.

SPECIFICATION forming part of Letters Patent No. 336,003, dated February 9, 1886.

Application filed October 6, 1885. Serial No. 179,155. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. FISHER, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful
5 Improvement in Push-Buttons, of which the following is a specification.

My invention consists in an improved wooden push-button, hereinafter fully pointed out in the claim.

10 Figure 1 is a plan view of the base, and Fig. 2 a bottom plan view of the cap, of a push-button. Fig. 3 is a vertical central section through the base, and Fig. 4 a similar section through the cap.

15 As now made, wooden push-buttons consist of a base having a raised circular center, a hollow cap adapted to screw on the center of the base, two spring contact-pieces screwed to the center of the base, and a button passing
20 through the center of the cap and resting on the spring contact-piece. When the cap is screwed to the base, so much force is often applied by the workmen that the wooden threads are stripped and the instrument rendered use-
25 less, and the warping of the wood frequently prevents union of the two parts. I obviate both of these difficulties by my invention.

A represents the base, and B the cap.

30 F represents the raised center of the base, and this is made smaller than necessary for the finished button, and one or more shallow notches or holes cut in its edge. Molten soft metal, lead, or type-metal is now cast around the edge of F, and forms a metal band, C,
35 which is licked to the base by the metal flow-

ing into the notch or hole therein, as shown at
a a. The band C has a male screw-thread cut thereon. The bottom of the interior of the cap B is turned out larger than usual, and one
40 or more notches or holes cut therein, and a ring of molten soft metal is cast in the part so turned out, as shown at D. This ring is licked to the cap by the metal flowing into the notch or hole, as shown at b b, and has a female screw-
45 thread cut thereon to engage with the screw-thread cut on band C.

E represents the button, and e d the contact-pieces.

c represents a hole through the base for the passage of wires.

The push-button so made is cheap, durable,
50 and cannot be affected by the warping of the wood, nor easily injured by force applied in screwing the parts together.

What I claim as my invention, and desire to
55 secure by Letters Patent, is—

As an improved article of manufacture, a push-button consisting of a base, A, having a raised center, F, encircled by a screw-threaded band of soft metal, C, cast thereon, and having
60 the lugs a formed in the casting, and a top, B, having therein the screw-threaded ring D, of soft metal, cast therein, and having the lugs b formed thereon in casting, substantially as described.

FRANK E. FISHER.

Witnesses:

GEO. A. MCKINLOCH,
SUMNER COLLINS.