

(Model.)

T. W. FEELEY.
Sleeve Button.

No. 238,772.

Patented March 15, 1881.

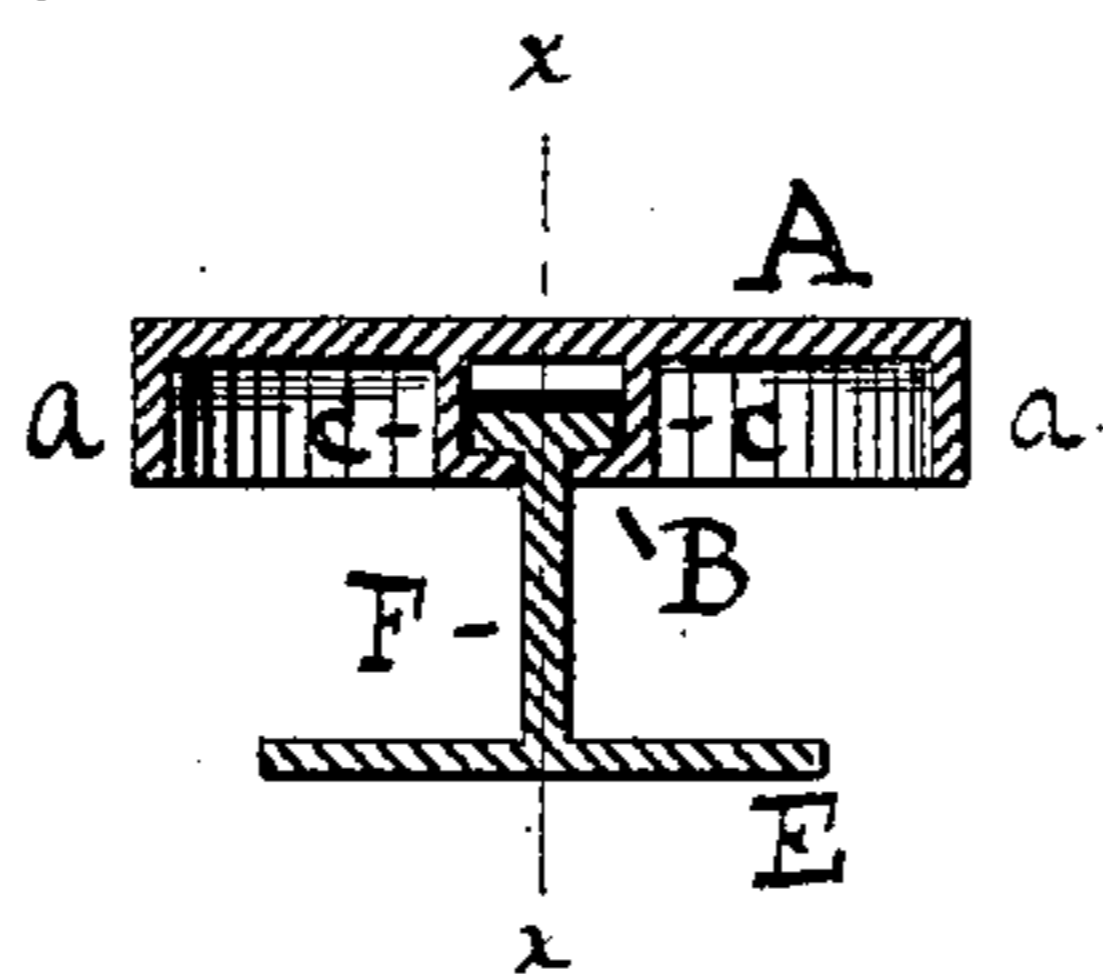


FIG. 1.

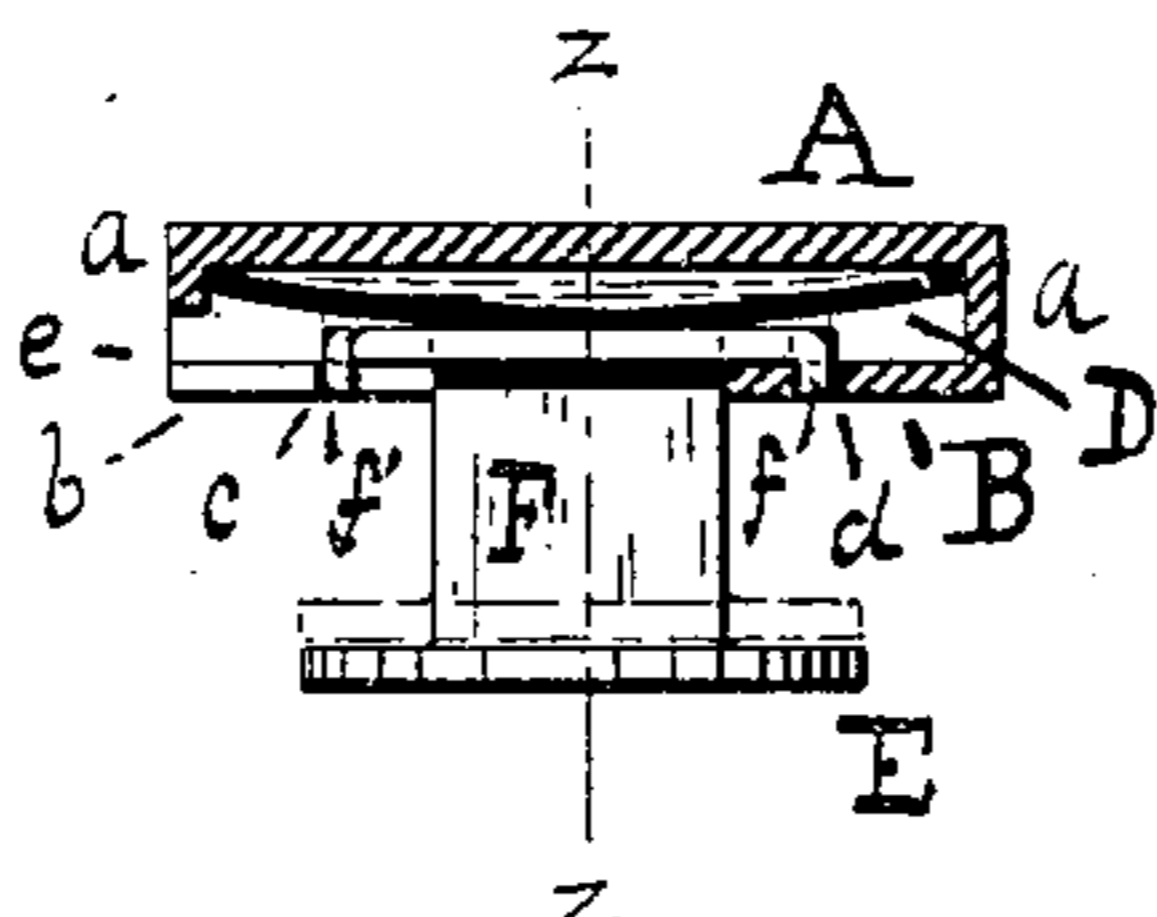


FIG. 2.

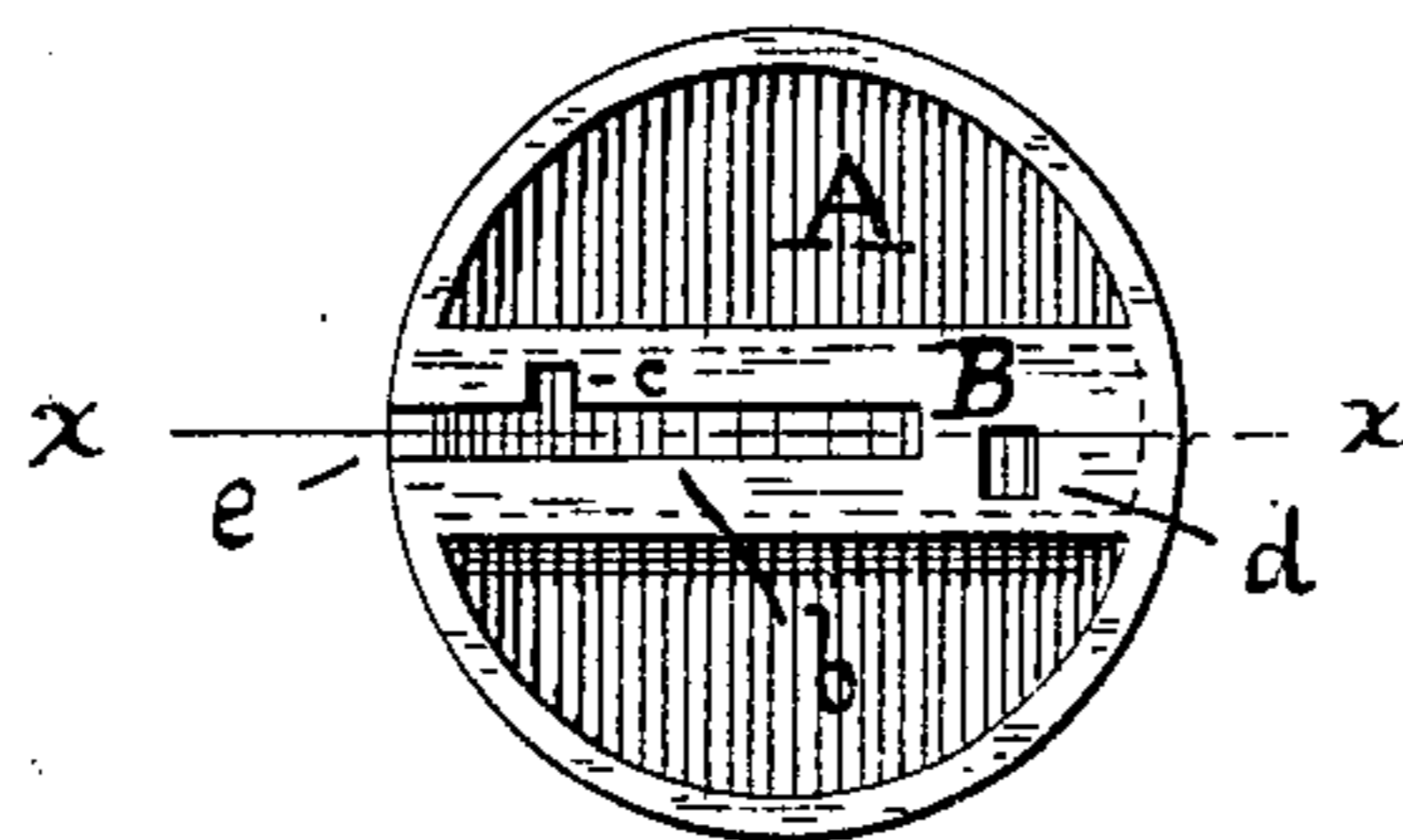


FIG. 3.

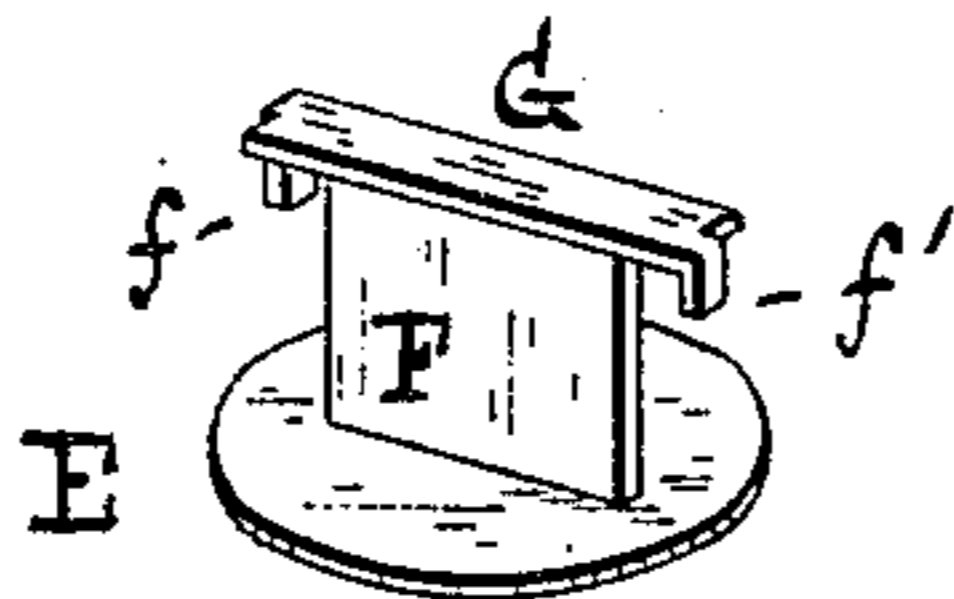


FIG. 4.

WITNESSES.

INVENTOR.

Osman B. Lloyd

Chas. H. Wilson

Thomas W. Feeley

UNITED STATES PATENT OFFICE,

THOMAS W. FEELEY, OF PROVIDENCE, RHODE ISLAND.

SLEEVE-BUTTON.

SPECIFICATION forming part of Letters Patent No. 238,772, dated March 15, 1881.

Application filed January 8, 1881. (Model.)

To all whom it may concern :

Be it known that I, THOMAS W. FEELEY, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Sleeve-Buttons and Studs; and I declare the following to be a specification thereof, reference being had to the accompanying drawings.

Like letters indicate like parts.

10 Figure 1 is a vertical section of my invention on the line *z z*, Fig. 2. Fig. 2 is a vertical section upon the line *x x*, Fig. 1. Fig. 3 is a plan view of the back of the button. Fig. 4 is a perspective view of the shoe and shank.

15 My invention is especially adapted to separable sleeve-buttons, but may be used in the construction of collar-buttons and studs.

It consists in the construction and arrangement of parts, as hereinafter more fully described, and specifically pointed out in the claims.

20 The button A has a flange, *a*, extending around it, and upon its reverse side a box-like case, consisting of the plate B and the side pieces, C C, extends diametrically across from side to side. This case contains the bow-spring D. The plate B has a longitudinal slot, *b*, extending from one end sufficiently far along its central line to receive the shank in its desired position. From the slot *b*, from one side thereof, and opening into it near its outward end, is a small slot, *c*, at a right angle thereto, and at a point a little beyond the inner end of the slot *b* is a slot, *d*, extending from the central line of the plate B outwardly in a direction from said line opposite to the direction of the slot *c*. A slot, *e*, is made through the flange *a*, in connection with the open end of the slot *b*.

30 The shoe E has a shank, F, bearing a bar, G, the ends of which, projecting beyond the edge of the bar, are formed into catches *f f'*, bent inwardly at right angles and each half as wide as the bar G, the one projecting at the right-hand side of the bar and the other at the left. The distance between these catches and the respective edges of the shank should be exactly equal to the distance between the slot *d* and the inner end of the slot *b*.

50 To unite the two parts of the button, I insert the shank F into the slot *e* of the flange *a* and slide it along the slot *b* of the plate

B. The catch *f*, moving along the under side of the plate B, depresses the spring D, as shown by dotted lines in Fig. 2, and the bar G of the shank F slides freely until the inner or advancing edge of the shank has reached the inner end of the slot *b*, when the catches *f f'* are opposite the slots *d c*, respectively, whereupon they are crowded into said slots, and held there by the pressure of the spring D. To separate the two parts of this button the shoe is depressed, disengaging the catches from their slots and crowding down the spring D, while the bar G is withdrawn and the shank F slides outwardly from the slot *b*.

I prefer to use the double catches *f f'*, because when either, for any cause, is disengaged from its slot by an unequal pressure upon the shoe, the other will hold the more firmly, and so secure the parts from separation, and the parts can be separated only as desired by a direct pressure, disengaging both catches at the same time, followed by a sliding motion to withdraw the shank from its confining-slot.

Other forms of springs than that shown may be used; but I prefer the bow-spring, not only because it is cheaper, but because its peculiar shape gives ample space at the entrance of the slots *b c* to receive the shank, bar, and catches, and presents a gradually-inclining surface to receive the pressure as the shank and bar advance along the slot *b*.

I therefore claim as a useful and novel invention, and desire to secure by Letters Patent—

1. A separable button consisting of a button-front having one or more catch-slots, and a longitudinal diametrical slot opening at and through the button-flange, and a shoe the shank whereof is adapted to slide in and along such longitudinal slot, and having catches to engage with said catch-slots by the pressure of a spring, substantially as described.

2. The button-front A, having a flange, *a*, slotted at *e*, and the case B C C, having the slots *b c d*, in combination with the spring D, shoe E, shank F, and catch-bar G, having the catches *f f'*, all arranged and operating substantially as specified.

THOMAS W. FEELEY.

Witnesses:

EUGENE B. FLOYD,
CHAS. A. WILSON.