

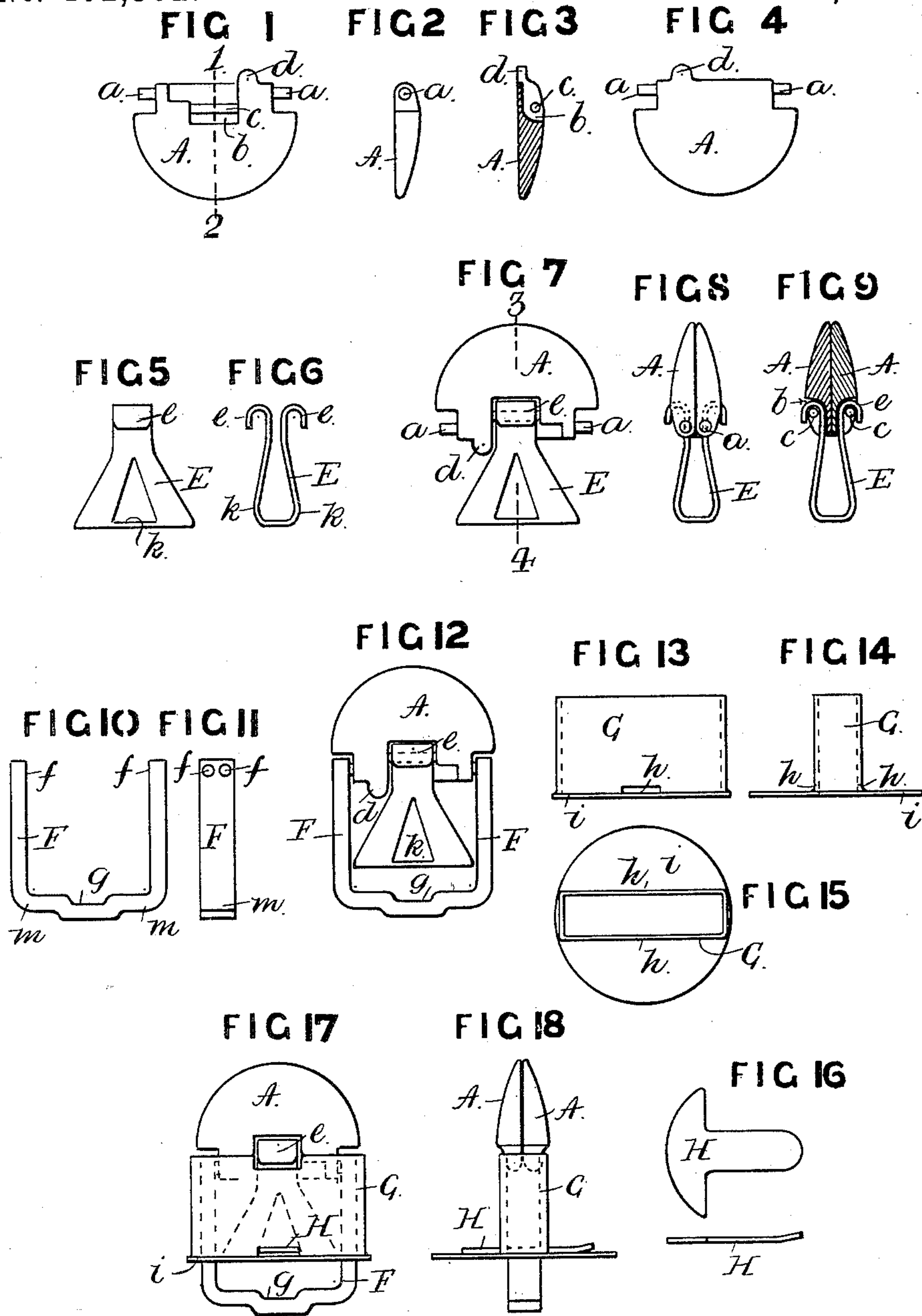
(No Model.)

2 Sheets—Sheet 1.

T. MORTON & W. PEARCE.
BUTTON.

No. 462,362.

Patented Nov. 3, 1891.



Witnesses

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(No Model.)

2 Sheets—Sheet 2.

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FIG 19

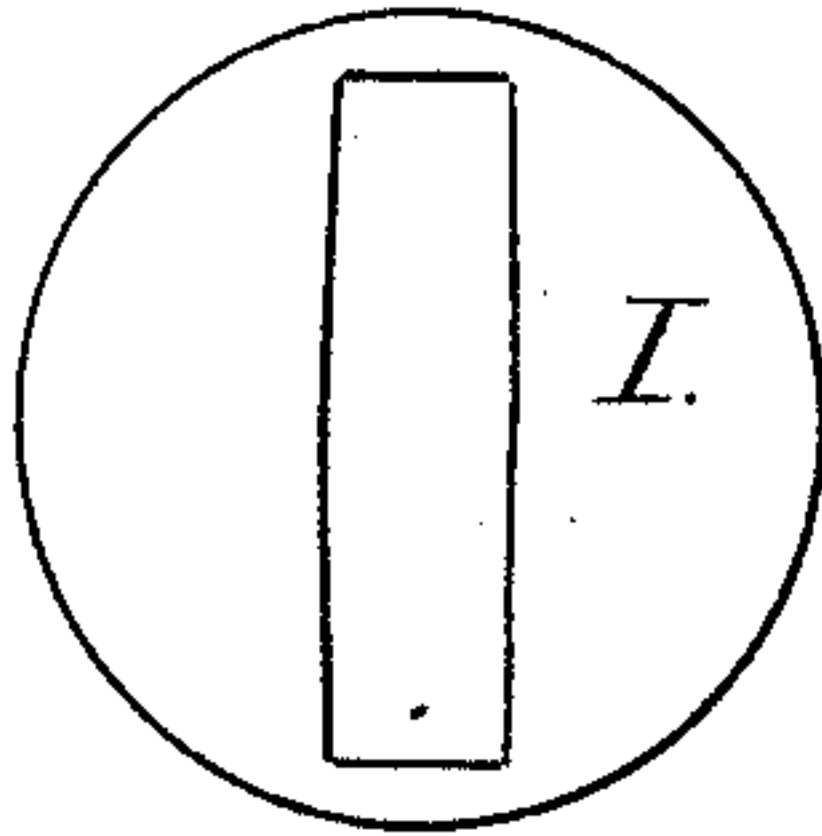


FIG 20



FIG 21

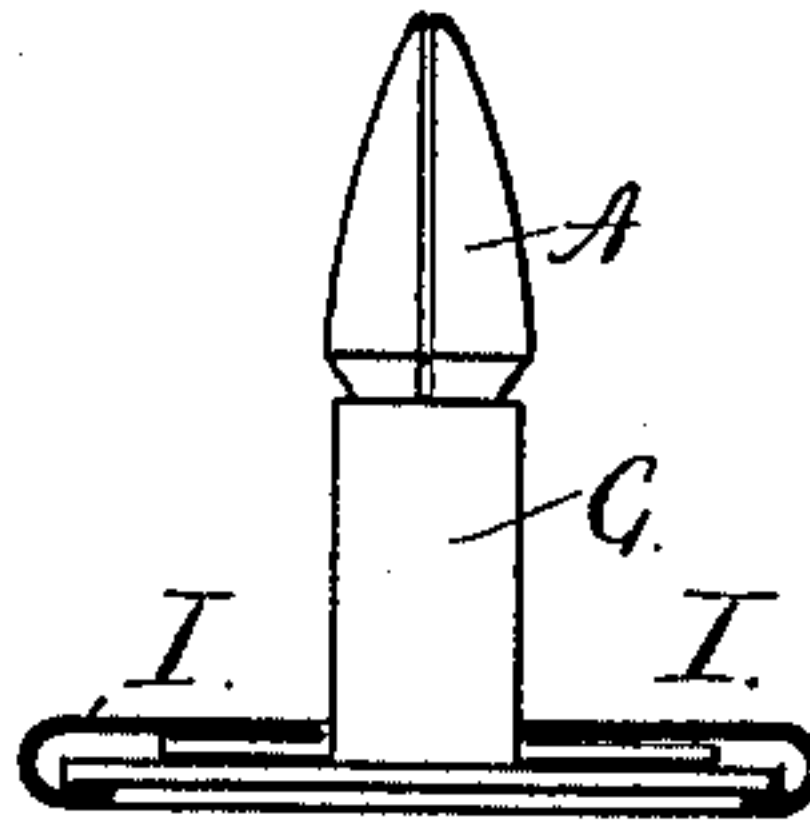


FIG 25

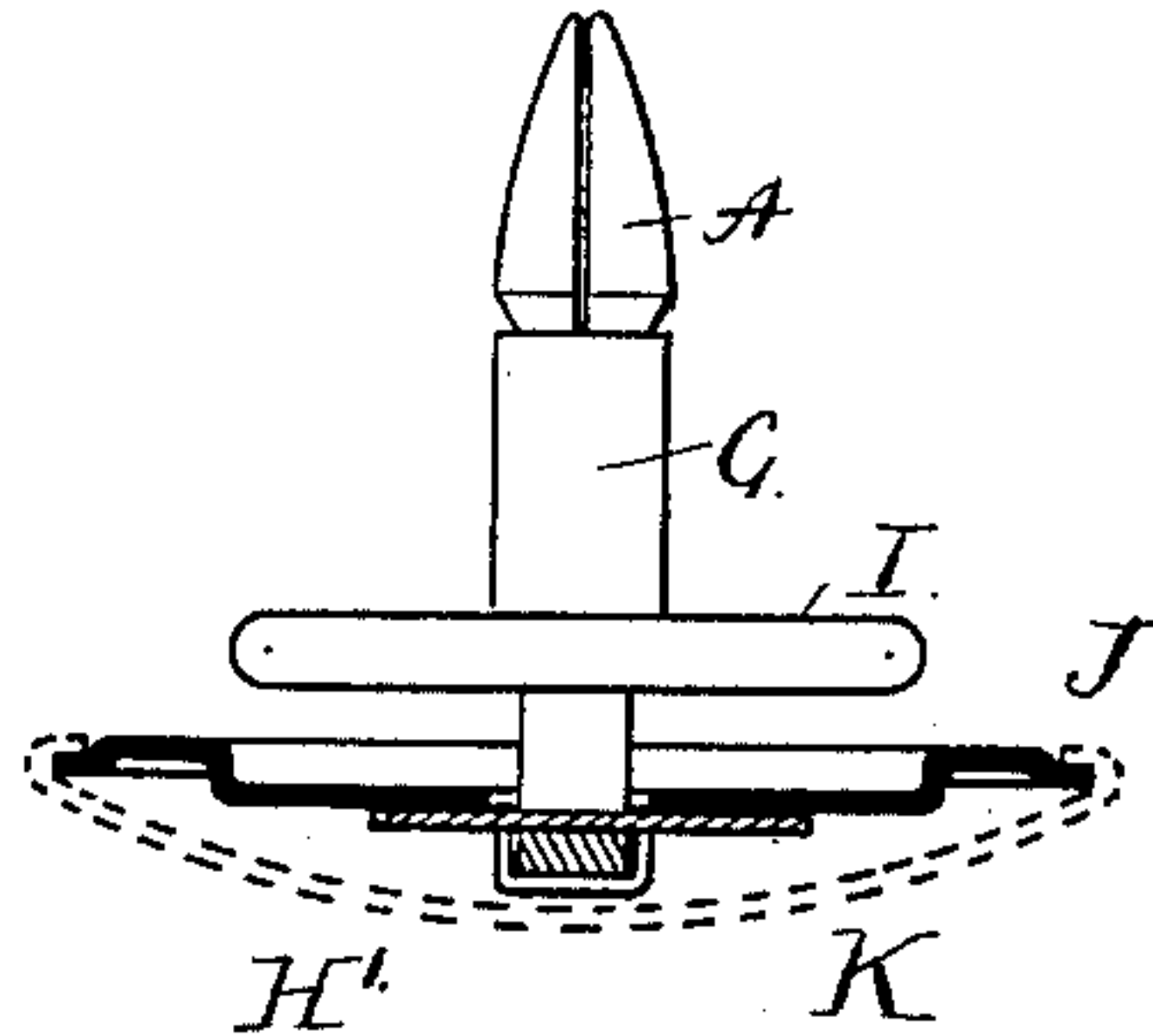


FIG 22

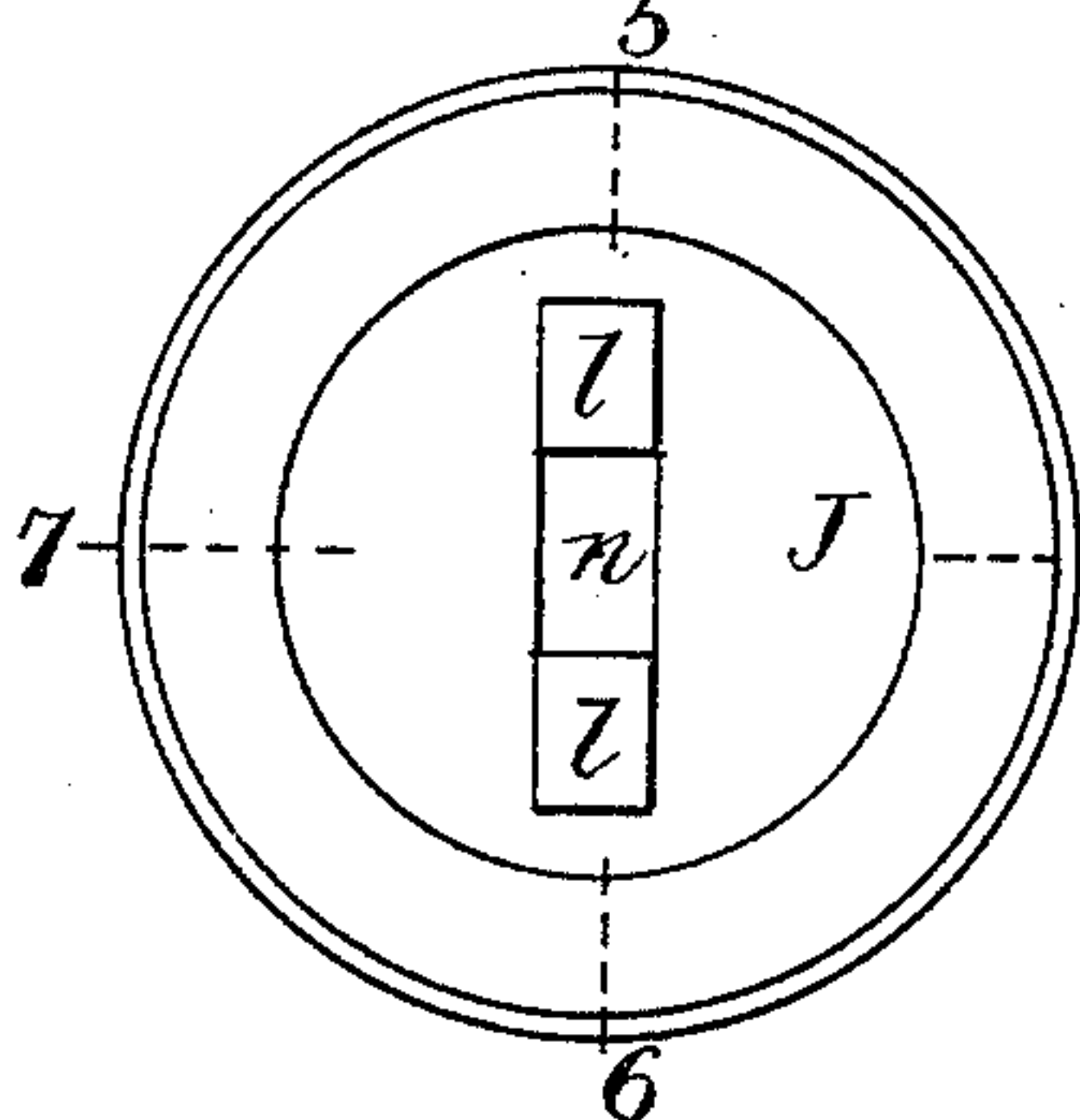


FIG 23

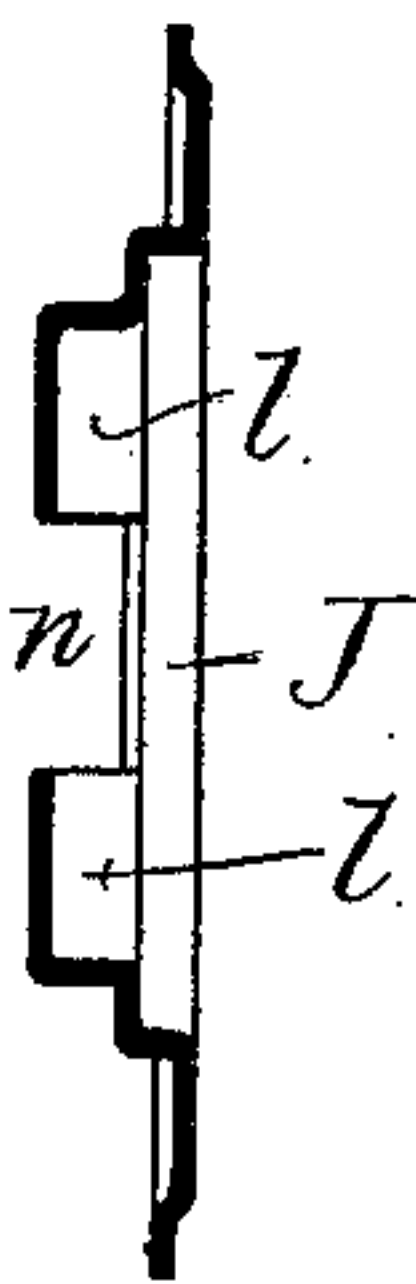


FIG 24



FIG 26

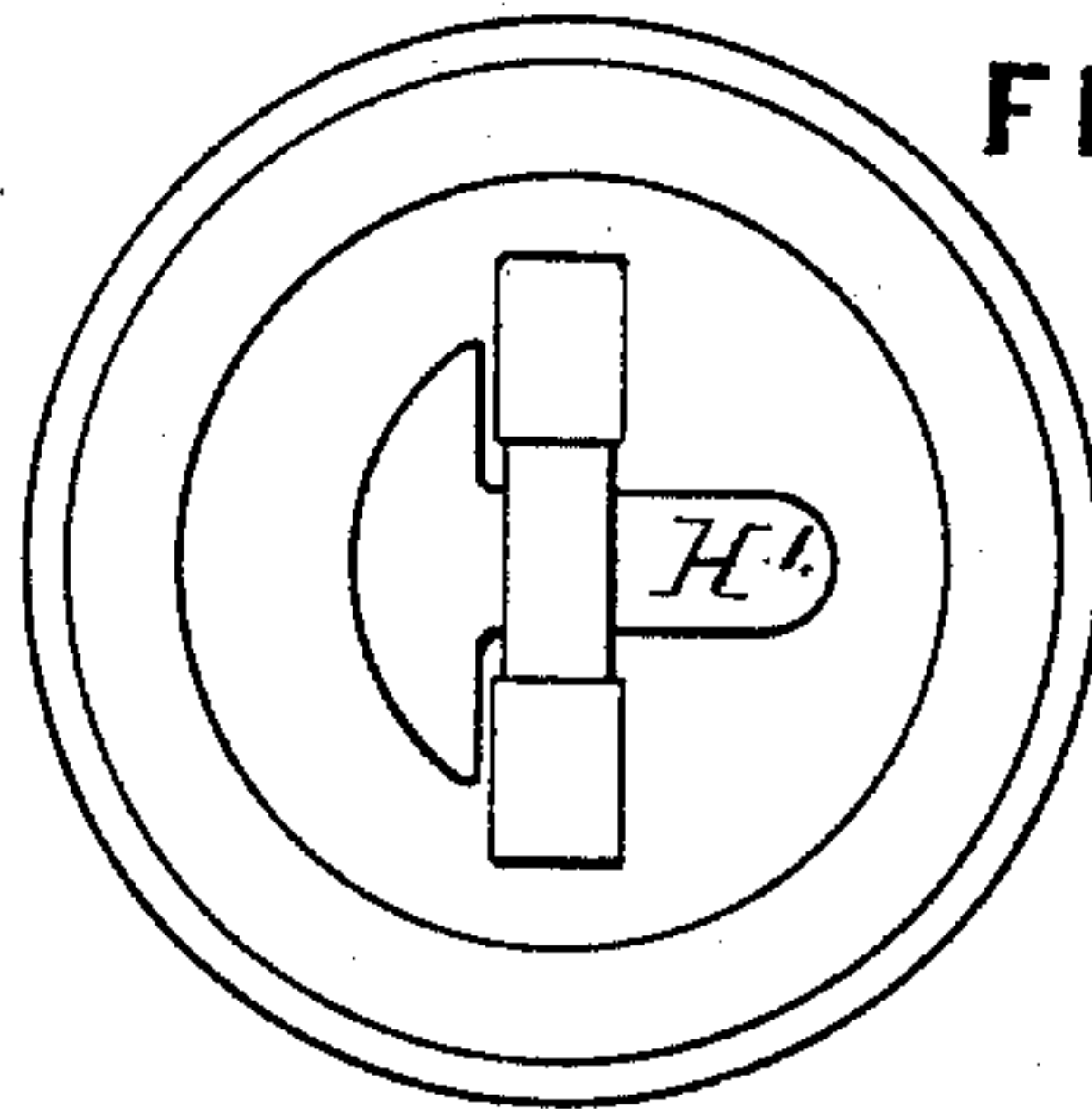


FIG 27

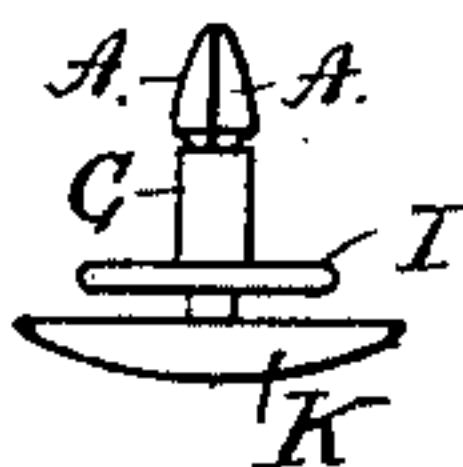
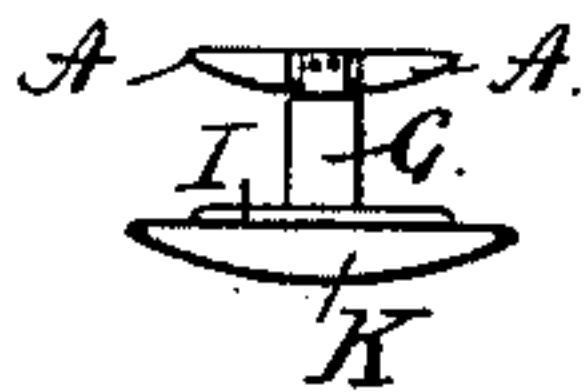


FIG 28



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UNITED STATES PATENT OFFICE.

THOMAS MORTON AND WILLIAM PEARCE, OF BIRMINGHAM, ENGLAND; SAID
MORTON ASSIGNOR TO SAID PEARCE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 462,362, dated November 3, 1891.

Application filed May 25, 1891. Serial No. 394,005. (No model.) Patented in England April 4, 1891, No. 5,791; in France May 2, 1891, No. 200,035, and in Germany May 8, 1891, No. 3,232.

To all whom it may concern:

Be it known that we, THOMAS MORTON and WILLIAM PEARCE, subjects of the Queen of Great Britain, and both residents of 52 Hylton Street, Birmingham, England, have invented certain new and useful Improvements in a Cuff-Button or Stud, (for which we have applied for Letters Patent in Great Britain, bearing date April 4, 1891, No. 5,791; in Germany, bearing date May 8, 1891, No. 3,232; in France, bearing date May 2, 1891, No. 200,035, and in Austria-Hungary, bearing date May 21, 1891, number not yet known,) of which the following is a specification.

Our invention relates to improvements in cuff-buttons or studs in which hinged wings are employed to automatically open or close upon its insertion into or removal from the button or stud hole; and the object of our improvements is to construct a cuff-button or stud that shall facilitate attachment or detachment and furnish a better and simpler arrangement of construction than in those of present make.

The accompanying drawings illustrate our improvements, in which—

Figures 1, 2, and 4 are detailed front edge and back views of one of the wings. Fig. 3 is a central sectional view of the wing on line 1 2, Fig. 1. Figs. 5 and 6 are detailed front and side views of the spring. Figs. 7 and 8 are front and side views showing the wings and the spring put together. Fig. 9 is a central sectional view of the wings and the spring on line 3 4, Fig. 7. Figs. 10 and 11 are front and edge views of the bearing-pillars. Fig. 12 shows the wings, the spring, and the bearing-pillars put together. Figs. 13, 14, and 15 are detailed front, end, and plan views of the tubular slide. Fig. 16 is a plan and edge view of the cotter-pin for securing the sliding tube to the spring. Figs. 17 and 18 are front and edge views showing the parts thus far mentioned put together. Figs. 19 and 20 are detailed plan and sectional views of the platform-disk. Fig. 21 shows in section the platform-disk connected to the previous parts. Fig. 22 is a plan view and Fig. 23 a sectional view on line 5 6, Fig. 22, and Fig. 24 a sectional view on line 7 8,

Fig. 22, of the base by which the whole is attached to the cuff-button or stud head or front. Figs. 25 and 26 show a part-sectional elevation and an inverted plan of the complete cuff-button or stud. Figs. 1 to 26, inclusive, are each of an enlarged size in order to show more clearly their respective parts and positions. Fig. 27 shows the cuff-button or stud in natural size, ready for insertion, and Fig. 28 shows the same after insertion.

A is the wing, (two of which are used,) having pivots *a a*, upon which it is made to swing, and also having a cut-away part *b*, in which is carried the bearing *c*.

d is a projection which forms a stop, which when the wings are open, Fig. 28, prevents their passing below the horizontal level.

E is the spring. Two of the wings are passed onto the spring, (see Figs. 7, 8, and 9,) the hook part *e* being passed over the bearing *c*.

F is the bearing-pillar, having pivot-holes *f f*, which are passed onto the pivots *a a* of the wings, (see Fig. 12,) and having also a depressed opening *g*, for purposes hereinafter explained.

G is a tubular slide having an opening or slot *h* and a disk *i*. This tubular slide is now passed onto the bearing-pillars, &c., (see Figs. 17 and 18,) and secured thereto by the cotter-pin H, passing through the slot *h* and the opening *k* in the spring E. It will be seen that by the sliding action of this tubular slide G the wings are made to open or close by reason of the spring E (which is connected thereto) acting upon the bearings *c c*, the wings A A turning upon the pivots *a a*.

I is a platform passed over the tubular slide, covering the cotter H, and then having its edge closed over. (See Fig. 21.)

J is the base to receive the lower end of the bearing-pillars F, having recesses *ll* to receive the shoulders *m m* of the pillars (see Fig. 10) and a hole *n* for the depressed part *g* (see Fig. 10) to pass through. A second cotter H' is then passed through the depressed part *g* underneath the base J, when the whole is secured. (See Figs. 25 and 26.) This base J is now further secured to any button, stud, or solitaire front K, (see dotted lines, Fig. 25.)

ornamental or otherwise, when the article is complete.

As before intimated, when the wings (see Fig. 27) A A are closed the slide G is raised; but upon inserting the wings A A into the button-hole and pressing it forward the platform I is depressed, and in so doing the wings are opened, (see Fig. 28,) thus securing the button, &c., in its position. By again pulling forward the button, &c., head the wings A A are forced into their closed positions, ready for removal.

What we claim as our invention, and desire to secure by Letters Patent, is—

In a cuff-button or stud, the combination of the body K, base J, bearing-pillar F, wings A A, and spring E with the tubular slide G, having a disk i, covered by the platform I, substantially as set forth and shown.

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