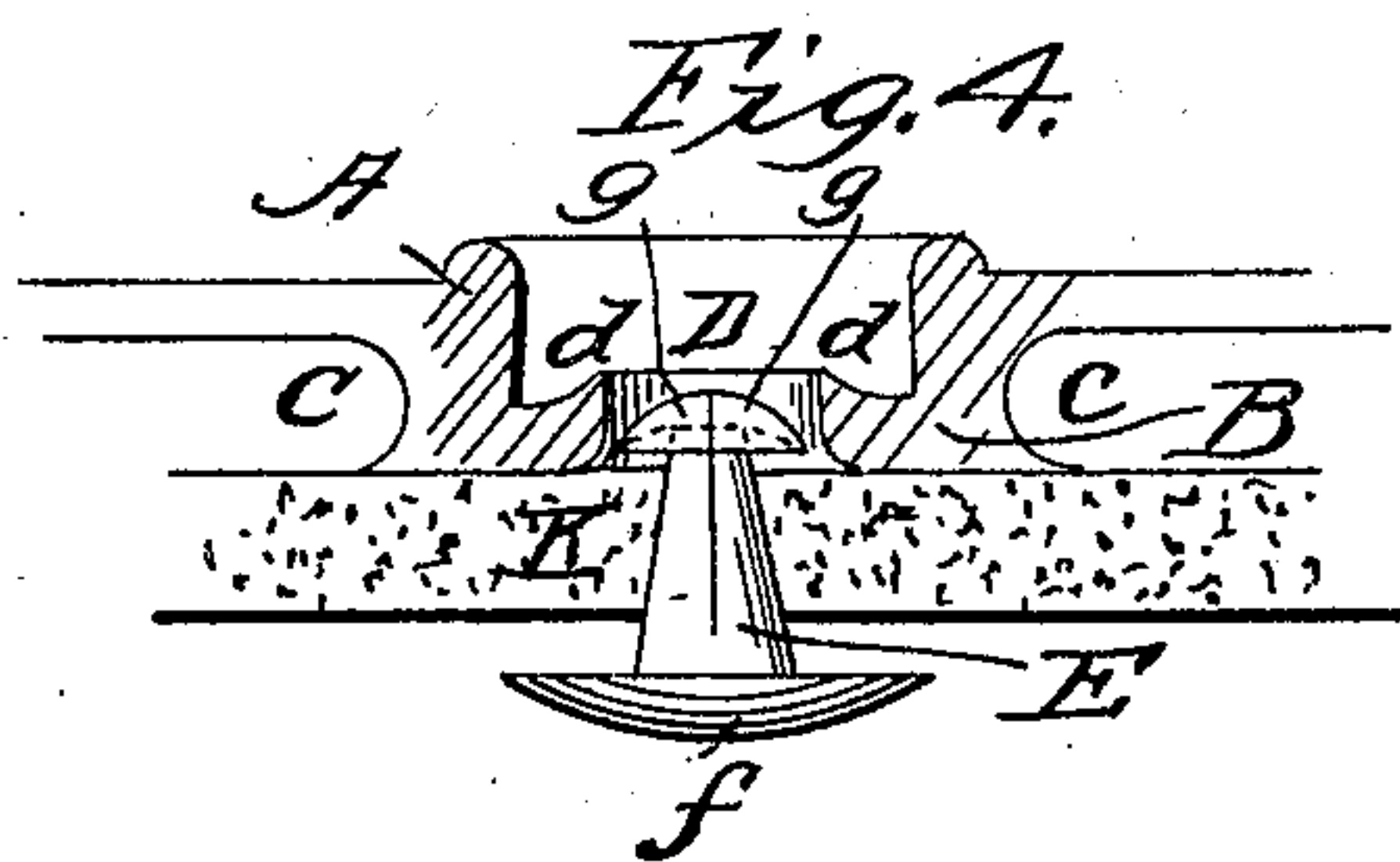
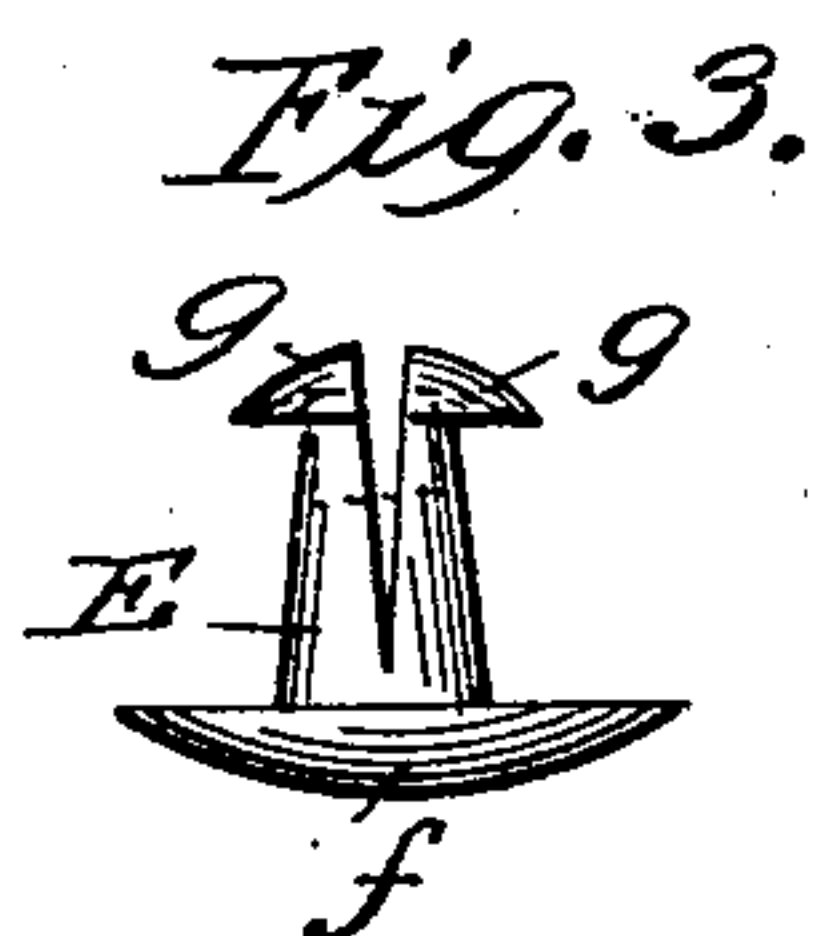
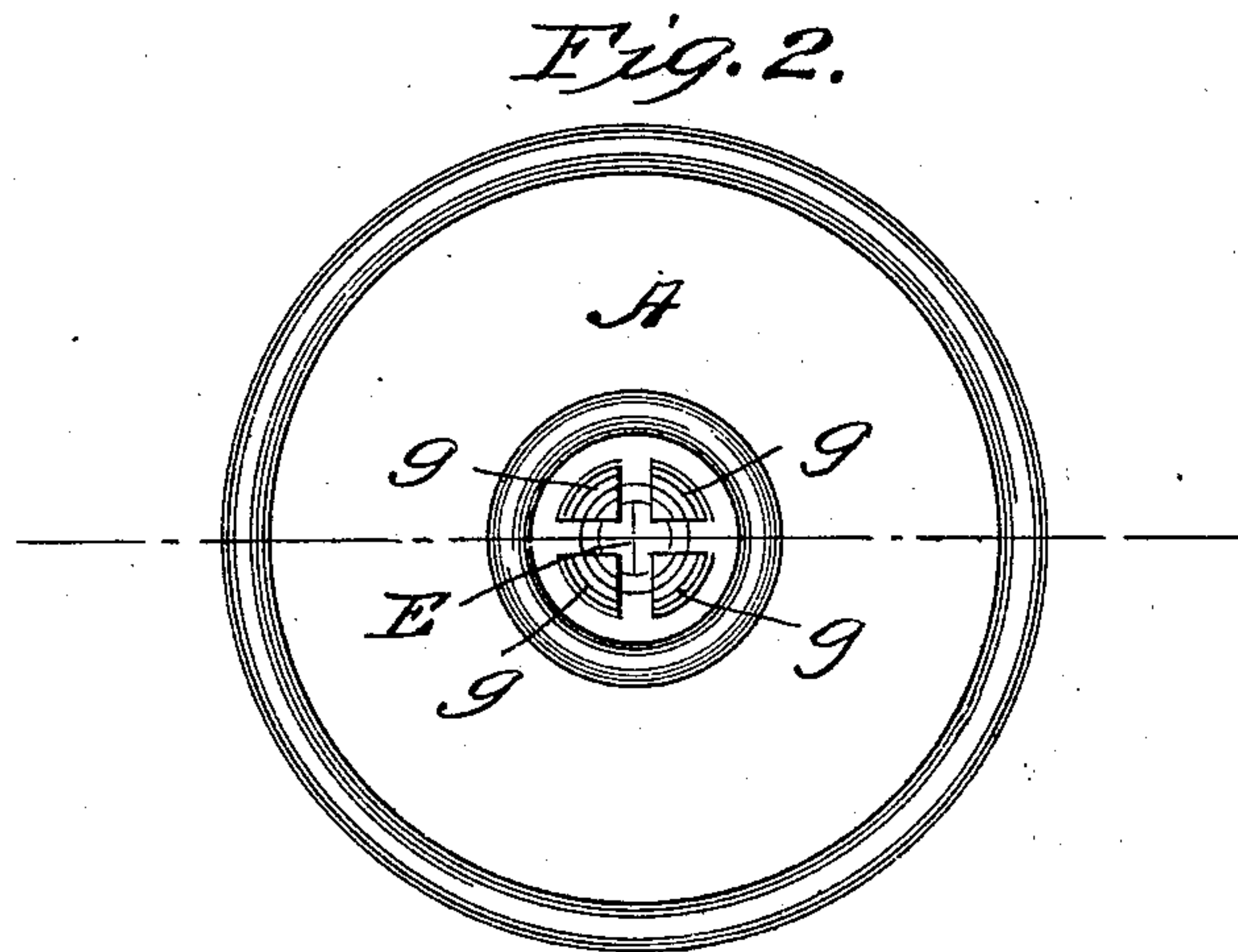
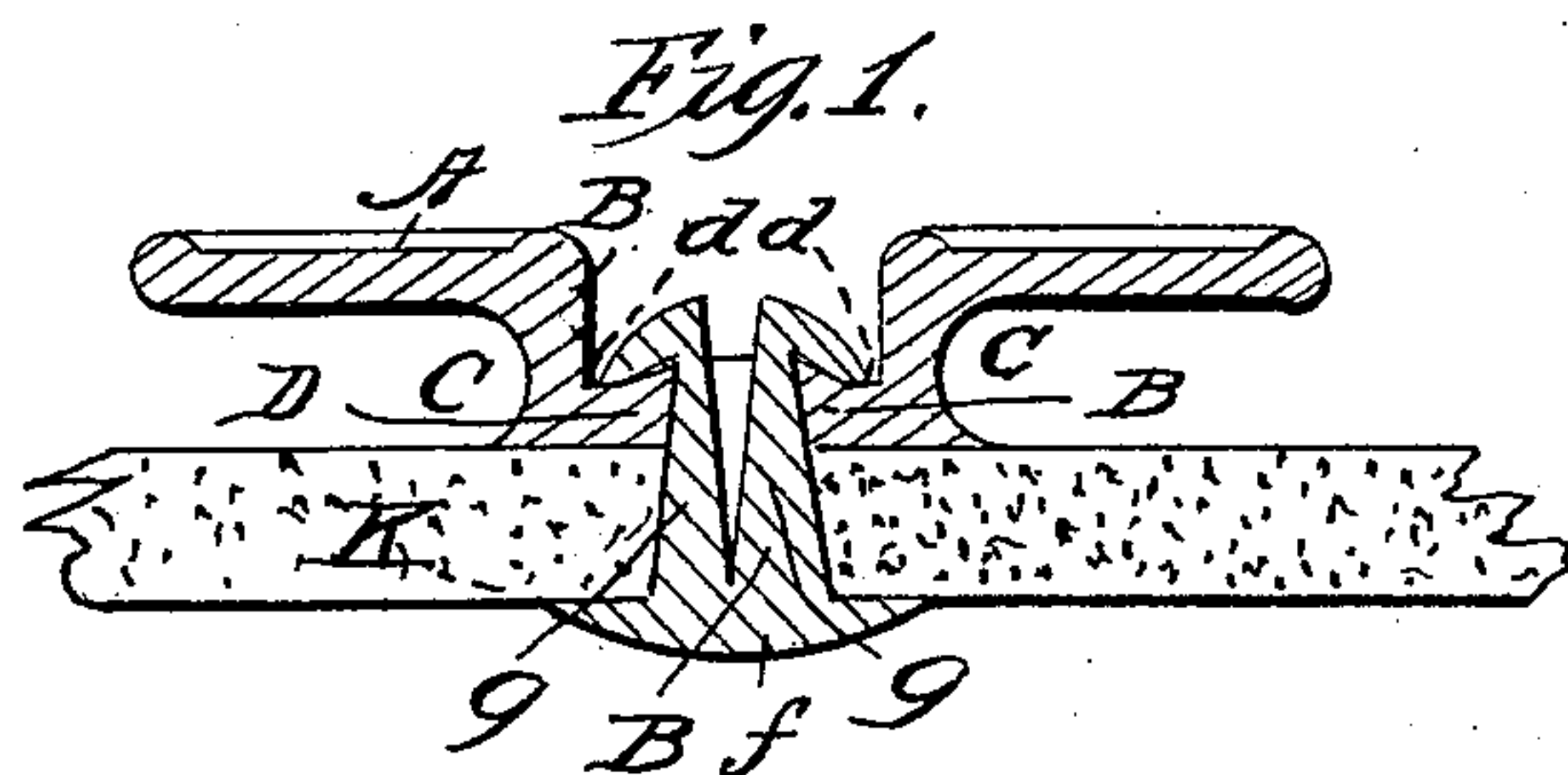


J. F. COLLINS & A. NEILL.
BUTTON.

No. 103,571.

Patented May 31, 1870.



Witnesses:

G. H. Madox
J. E. Prettyman

Inventors
John F. Collins
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United States Patent Office.

JOHN F COLLINS AND ARTHUR NEILL, OF NEW YORK, N. Y.

Letters Patent No. 103,571, dated May 31, 1870; antedated May 27, 1870.

IMPROVEMENT IN BUTTONS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, JOHN F. COLLINS and ARTHUR NEILL, both of the city, county, and State of New York, have invented a new and useful Improvement in Self-fastening Buttons; and do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making part of this specification, of which—

Figure 1 is a vertical section, showing our invention as applied to an article of wearing apparel.

Figure 2, a top view of the button, with the outer surface of the button-head removed.

Figure 3, a side elevation of the stem of the button showing the spring jaws, and

Figure 4, an elevation of the said stem as it appears while being forced into the button-head, with the spring jaws closed.

This invention, relating to a novel improvement in self-fastening buttons, consists of a nearly flat disk, surmounted by a series of spring jaws, constituting the stem of the button, said spring jaws being passed through the wearing apparel in the first place, and next through a hole in the back of the button-head, the said hole being smaller in diameter than the diameter of the expanded jaws, so that, when the spring jaws pass through the hole in the back of the button, they expand, thereby uniting the button-head to its stem, and firmly securing the article of wearing apparel between them, and the button receives the part of the garment to be buttoned on its head, instead of on the stem, as in ordinary cases.

In the drawings—

A denotes the button-head, having a projection, B, at its back, said projection being rounded out, as shown at O, for reception of the part of the garment to be buttoned thereon.

D is a circular hole in the back of said button, through which the spring-jawed stem is inserted; this

hole D is raised on the inside, forming a sharp circular ring, triangular in section, as shown at *d d*.

E is the stem of said button, having a nearly flat disk, *f*, from which a series of spring jaws, *g g*, &c., project upward. These spring jaws taper from the disk *f* to the jaws *g g*, said jaws forming an acute angle at *i*, corresponding to the sharp projection or elongation of the hole in the back of the button, as shown at *d d*, fig. 1, the object of the acute angle in said jaws being to overlap the corresponding projections *d d* on the inside of the button, whereby the jaws are held expanded, and prevented from approaching each other by any undue strain on the button; and K represents the cloth squeezed up and held firmly between the button-head and stem, while the garment is buttoned on the head.

To detach our button from the garment on which it is thus fastened, is simply to pass a loop of twist around the stem, between the cloth and button-head, and press the stem forward until the jaws *g g* are released from the projections *d d*, and next draw the loop tightly, when the jaws will assume the form shown in fig. 4, and be released from the button-head and cloth with ease and despatch.

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

The combination of the button recess D, having the raised or acute edge *d*, and the spring bars *g g* of the fastener, having heads *i i* fitting over the raised edge *d*, substantially as and for the purpose herein specified.

In testimony whereof, we have hereunto set our signatures this 30th day of May, 1868.

JOHN F. COLLINS.
A. NEILL.

Witnesses:

G. W. MADOX,
T. E. PRETTYMAN.