

(No Model.)

N. D. INGRAM.
BUTTON.

No. 605,292.

Patented June 7, 1898.

Fig. 1.

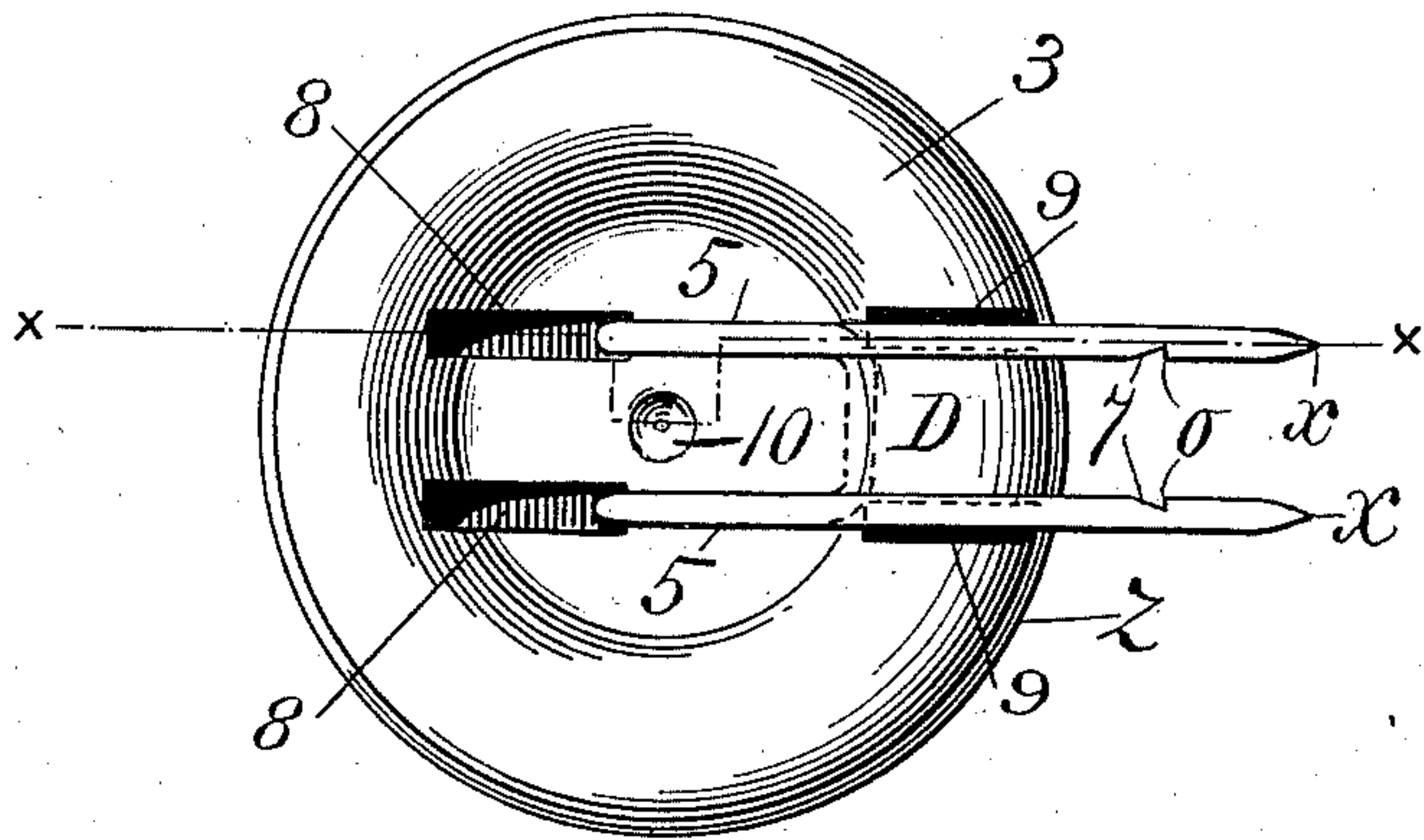


Fig. 2.

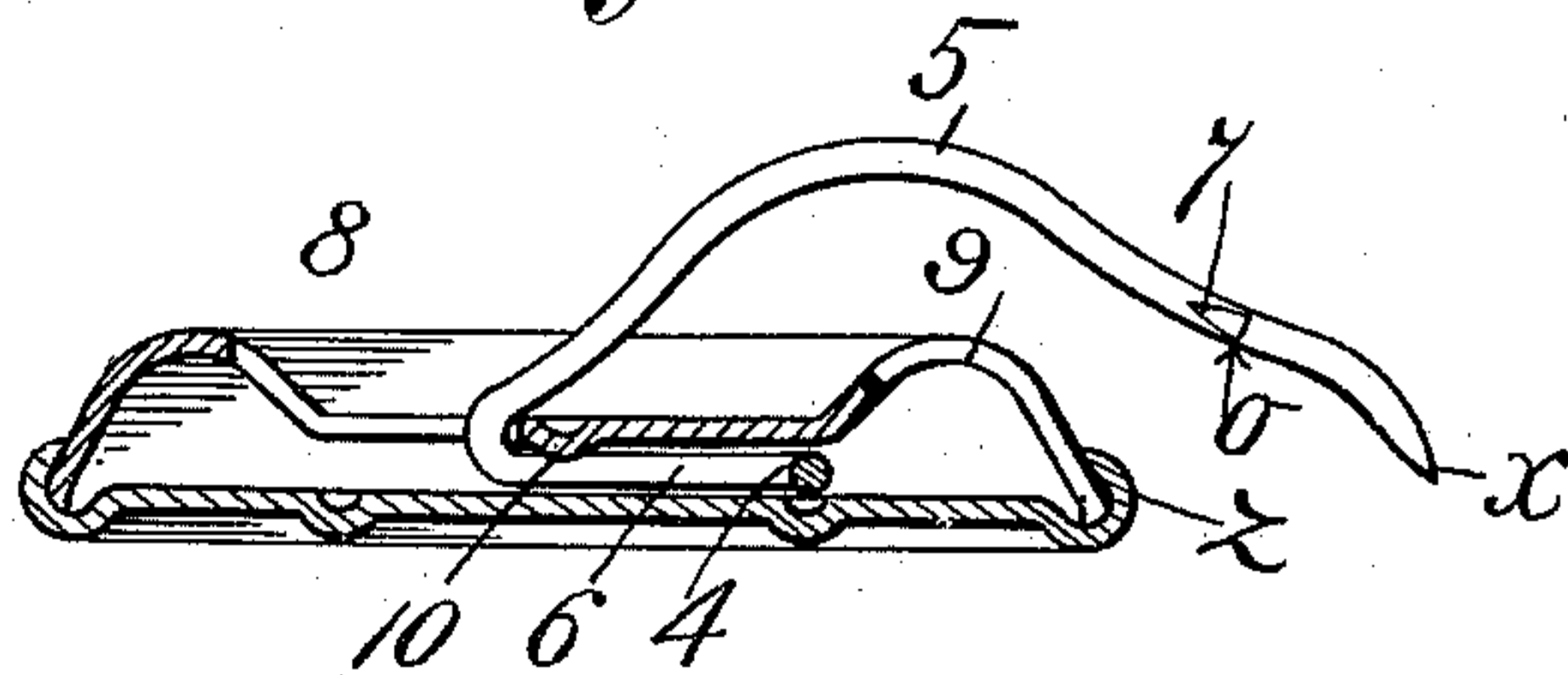


Fig. 3.

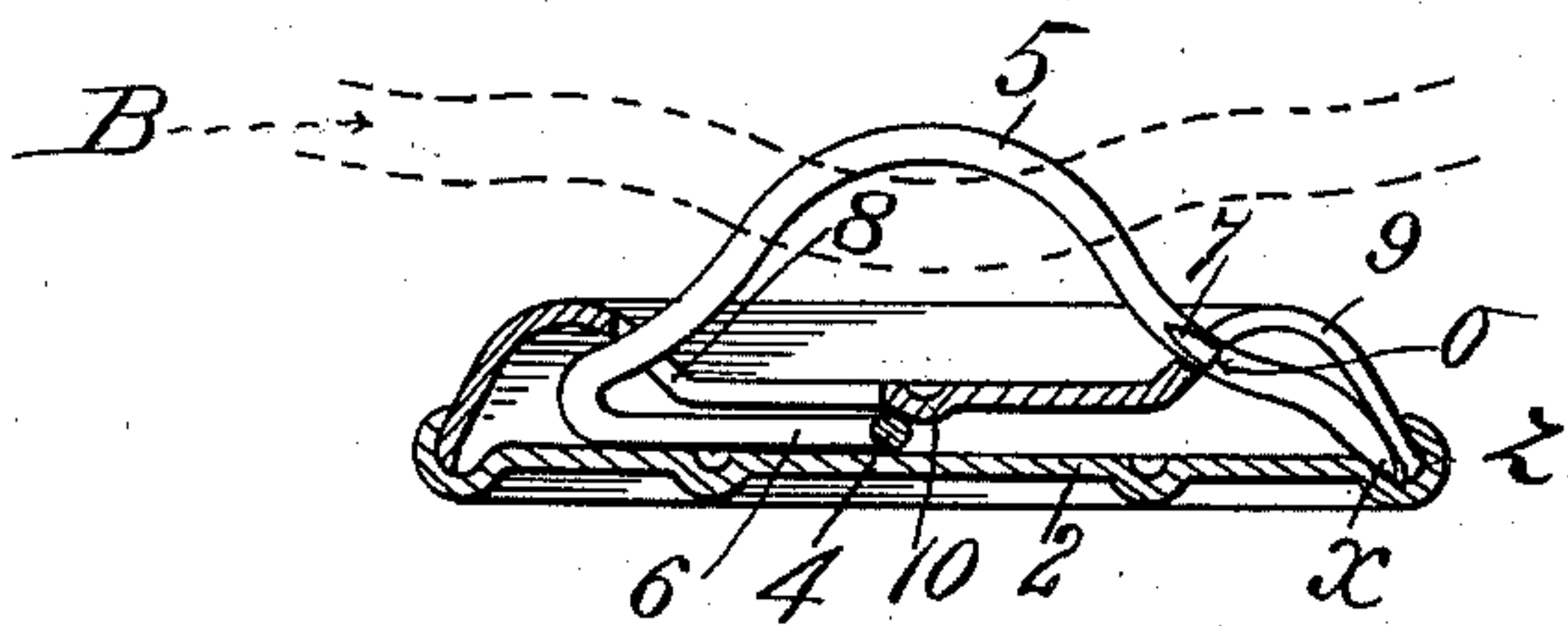
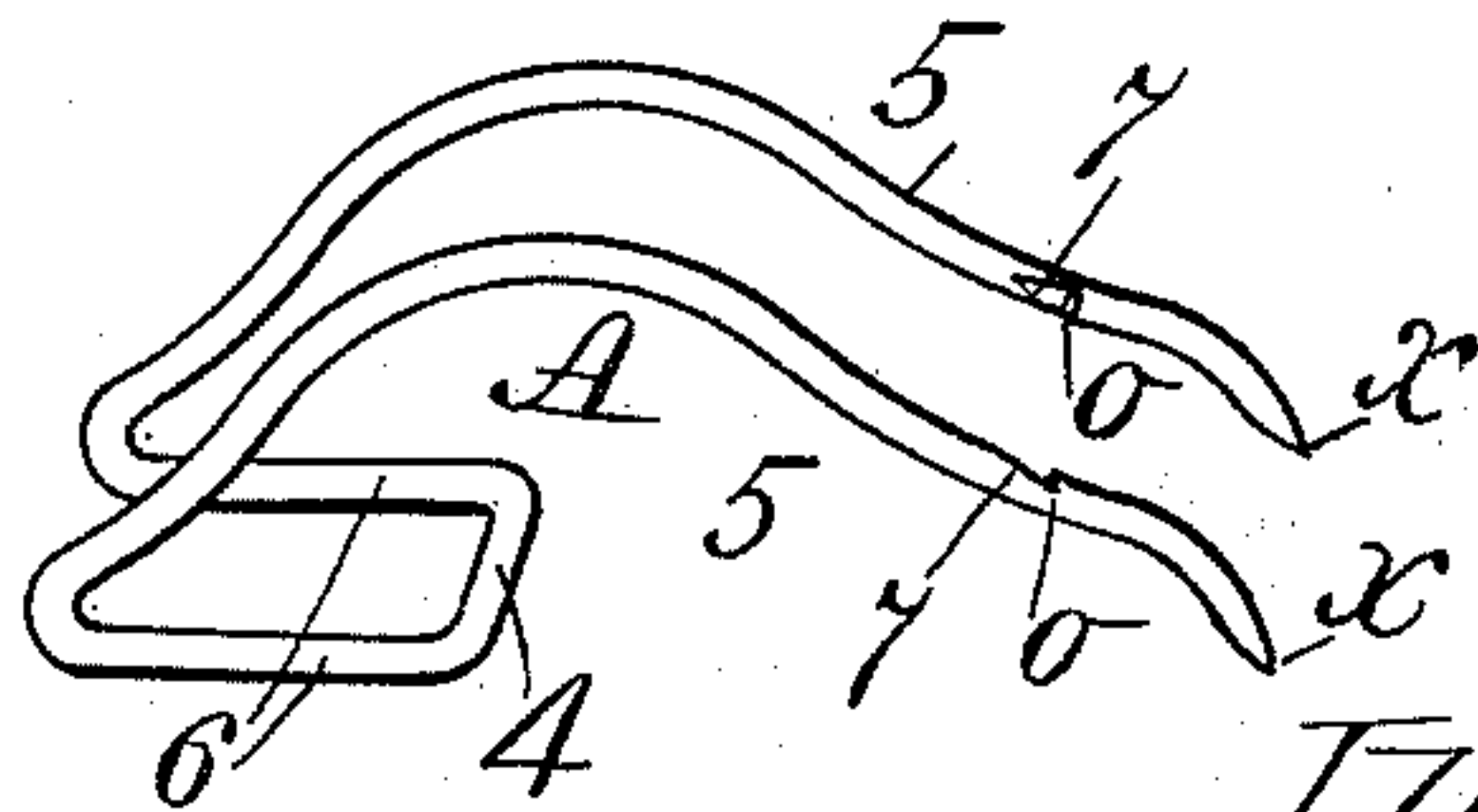


Fig. 4.



Witnesses:

J. D. Goffield
H. J. Clemons

Inventor,
Nathan D. Ingram,
by *Chapman & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

NATHAN D. INGRAM, OF HOLYOKE, MASSACHUSETTS.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 605,292, dated June 7, 1898.

Application filed August 9, 1897. Serial No. 647,541. (No model.)

To all whom it may concern:

Be it known that I, NATHAN D. INGRAM, a citizen of the United States of America, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Buttons, of which the following is a specification.

This invention relates to detachable buttons for garments, the object being to provide an improved button of this class in respect to simplicity and strength of construction and means for most effectively securing the same to a garment or other object; and the invention consists in the peculiar construction and arrangement of the several parts of the button, all as hereinafter set forth, and more particularly pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a plan view of the bottom; and Fig. 2, a section view on line $x x$, Fig. 1, of a button embodying my invention, said two figures illustrating the button-attaching element thereof in like positions relative to the face and collet thereof. Fig. 3 is a similar view to Fig. 2, but showing said button-attaching element fully engaged with said face and collet, as it is when the button is attached to a garment, this figure having indicated thereon in dotted lines at B the position substantially of a fabric relative to the button when the latter is attached thereto. Fig. 4 is a perspective view of the cloth engaging or attaching element of the button separate therefrom.

Referring to the drawings, 2 is the face, and 3 the collet, of the button, and z indicates the border-bead, in which the border of said collet is engaged or clamped, whereby the said face and collet are locked one upon the other in the usual manner, leaving a clear space therebetween and as clearly shown in Figs. 2 and 3, thus forming a hollow button-body. The collet 3 in this instance has four slots or openings 8 8 and 9 9 formed through it, and has also an inwardly-projecting loop-catch 10 formed on its inner face, all for purposes below described.

The button-attaching element A is made, preferably, from suitable spring-wire, having a loop 6, containing a cross-bar 4, from which loop extend in curved lines, as shown, fabric-engaging hooks 5 5, having their extremities

suitably pointed, whereby they are easily passed through a fabric, as indicated in Fig. 3, and each having preferably a shoulder 55 on the inner side thereof, formed by making an indentation 7 therein or in any other suitable way. The said slots or openings 8 8 and 9 9 in the collet 3 are formed for the purpose of letting the said hooks pass from said loop 6 outwardly and the free or pointed ends thereof to be moved inwardly and outwardly of said collet and to permit of moving said attaching element A bodily transversely across the button or of moving the latter on said element. 65 The said loop-catch 10 is provided for engagement with the said cross-bar 4 of the loop 6 when the said attaching element A is brought to the position shown in Fig. 3, whereby the button is attached to an article on which it is to be worn. The central portion of said collet 3 is more or less elastic, and consequently when said cross-bar 4 is moved forcibly under said loop-catch 10 said central portion of the collet rises, letting said bar pass 75 said catch, and subsequently the latter springs down behind said bar, thus holding said button-attaching element firmly locked on the button against detachment, as in Fig. 3, when strain is brought upon the button, the points x of said attaching element being engaged in said border-bead of the face 2 and the opposite looped end thereof being firmly held under said face. Referring to Fig. 3, which illustrates the relative positions of the button parts when the button is attached to an article, it will be seen that the ends of said fabric-engaging hooks 5, extending through the slots 9, have their extremities x engaged in a circular recess on the inner side of the border-bead z of the button-face 2 and that said hook extremities spring outwardly against the inner side of said bead, whereby they are held in said attached positions. The operation of attaching the button requires that said hooks 5 5 be brought about to the positions shown in Figs. 1 and 2, and after their engagement with said fabric the button is slid along on the said loop 6, so that the points $x x$ may be sprung under the edge of said bead z of the button-face; but to so operate said points the latter must be sprung apart somewhat; but upon bringing said points into said bead they spring again toward each other, bringing the 100

shoulders *o o* and said indentations 7 against the inner borders of the part D of said collet, Fig. 1, and said abutments or shoulders *o o* into such engagement with said last-named border as serves to retain said extremities against detachment by strain upon the button. By springing the points of said attaching-hooks out of engagement with said beaded border of the button the latter may be slid on the loop 6 to the position shown in Fig. 2 and the button be detached from the garment.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A detachable button consisting of a body comprising a face and a rear-side collet, having a clear space therebetween, said collet having two parallel transverse slots there-
through, near the center of said collet, and two other slots in line with the former terminating by one end within the border-bead of said face, and a loop-catch on its inner surface, combined with a transversely-movable, wire, button-attaching element having a looped end contained within said body, having a part for engagement with said loop-catch, and button-attaching hooks extending

in curved lines from said looped end through two of said slots and near to said border-bead for engagement therewith within the ends of said last-named slots, substantially as set forth.

2. A detachable button consisting of a body comprising a face and a rear-side collet, having a clear space therebetween, said collet having two parallel transverse slots there-
through, near the center of said collet, and two other slots in line with the former, terminating by one end within the border-bead of said face, and a loop-catch on its inner surface, combined with a transversely-movable, wire, button-attaching element having a looped end contained within said body, having a part for engagement with said loop-catch, and button-attaching hooks extending in curved lines from said looped end through two of said slots and near to said border-bead for engagement therewith within the ends of said last-named slots, and having shoulders thereon for engagement with a border of the last-named slots, substantially as set forth.

NATHAN D. INGRAM.

Witnesses:

H. A. CHAPIN,
K. I. CLEMONS.