

No. 728,770.

PATENTED MAY 19, 1903.

J. F. SCHOEPPPL.
HOOK AND EYE.

APPLICATION FILED SEPT. 16, 1902.

NO MODEL.

Fig. 1.

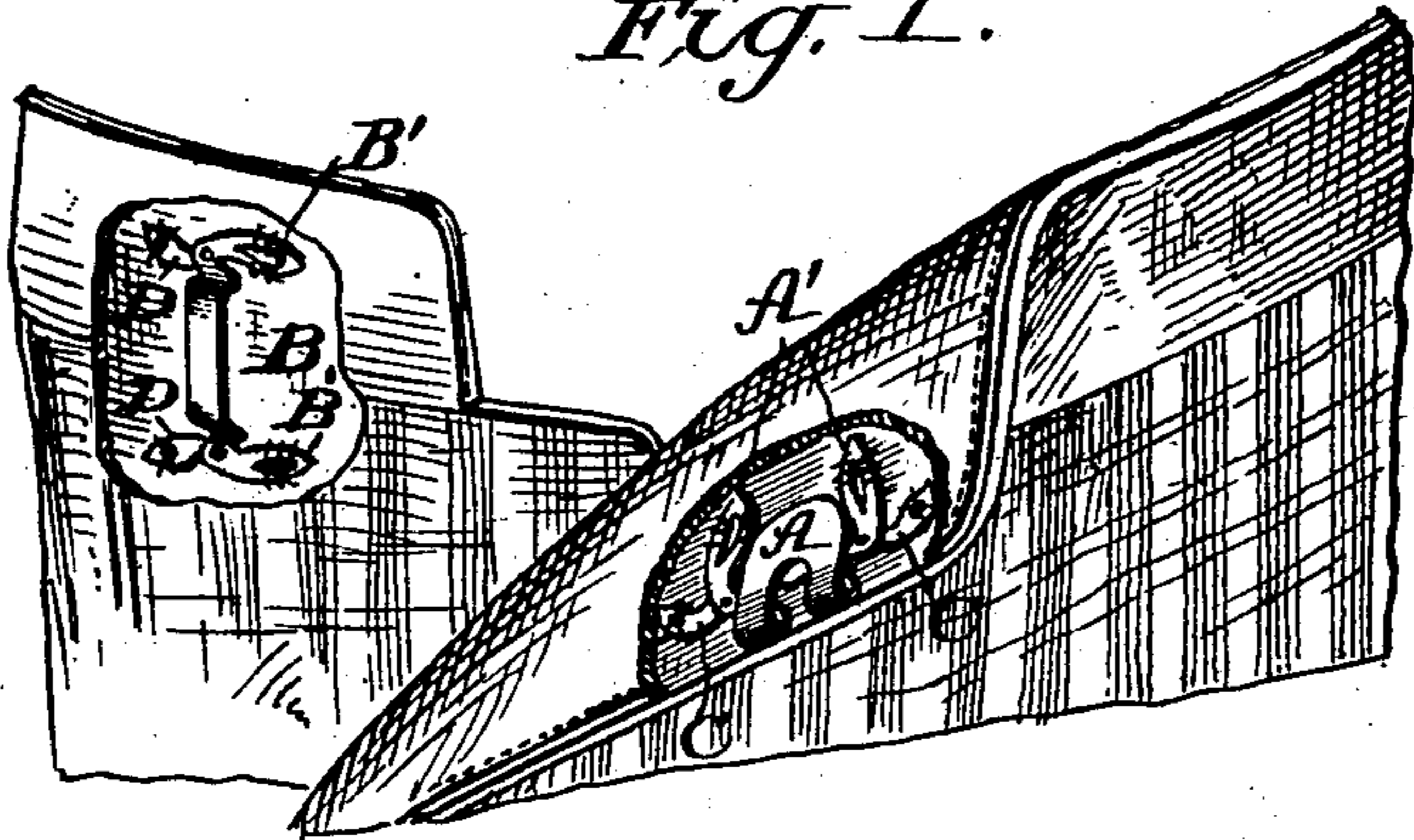


Fig. 2.

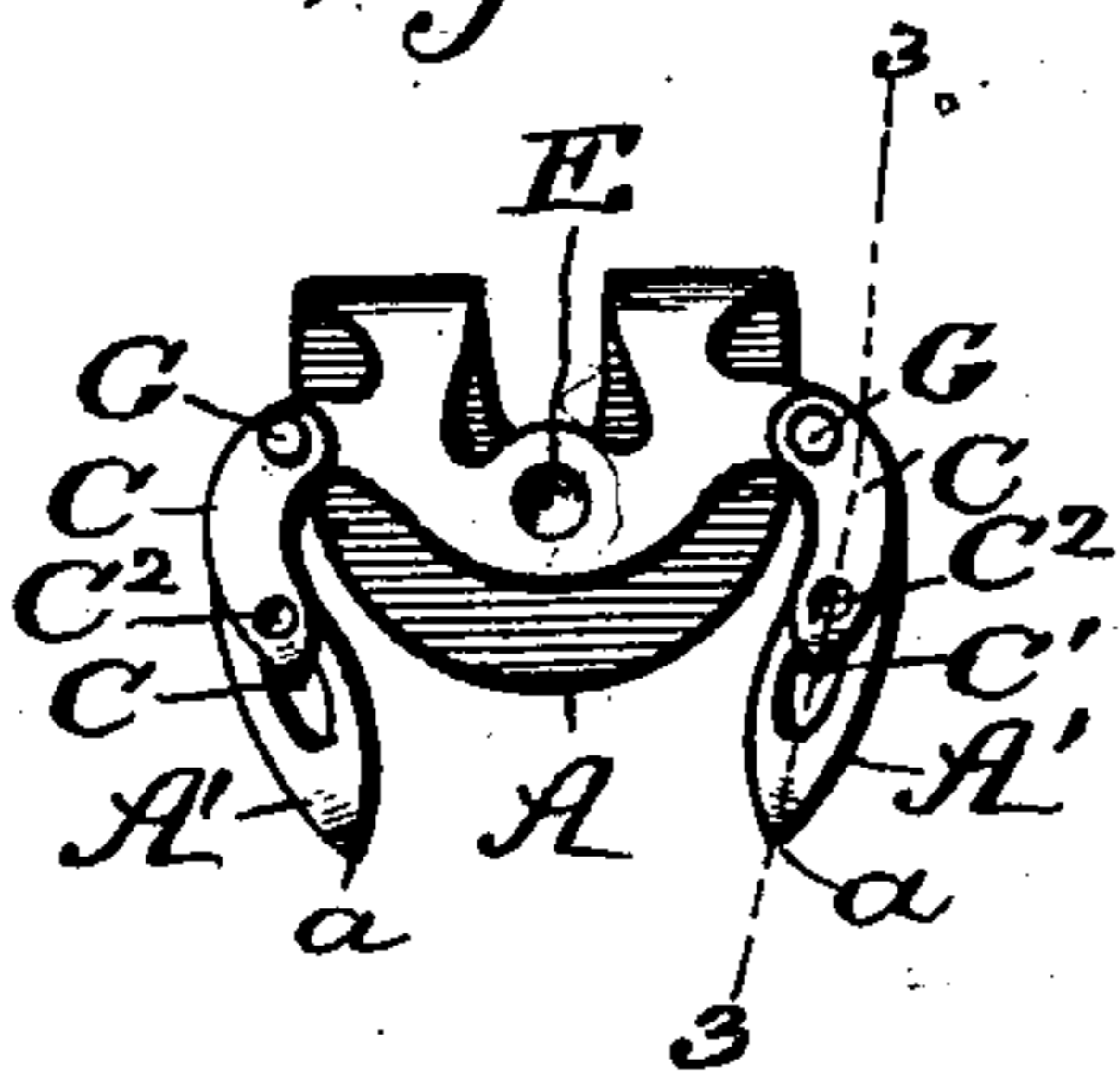


Fig. 3.

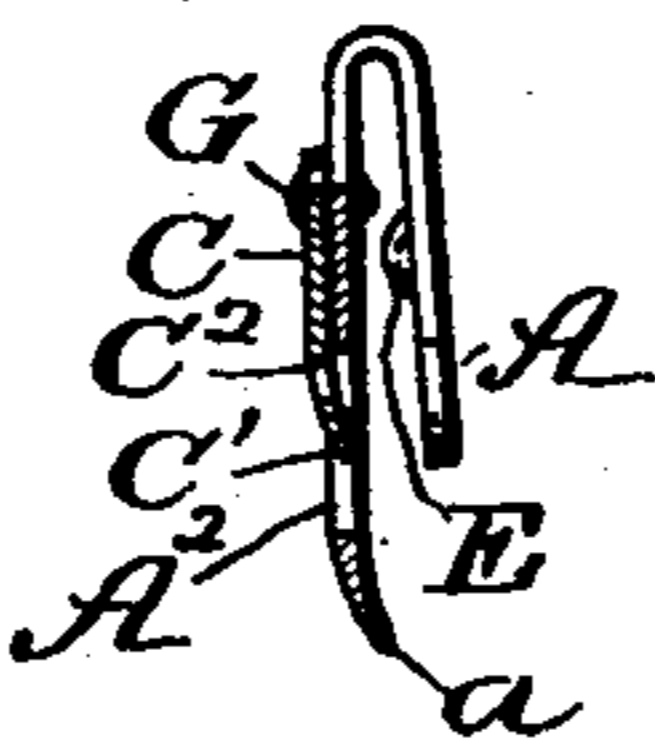


Fig. 4.

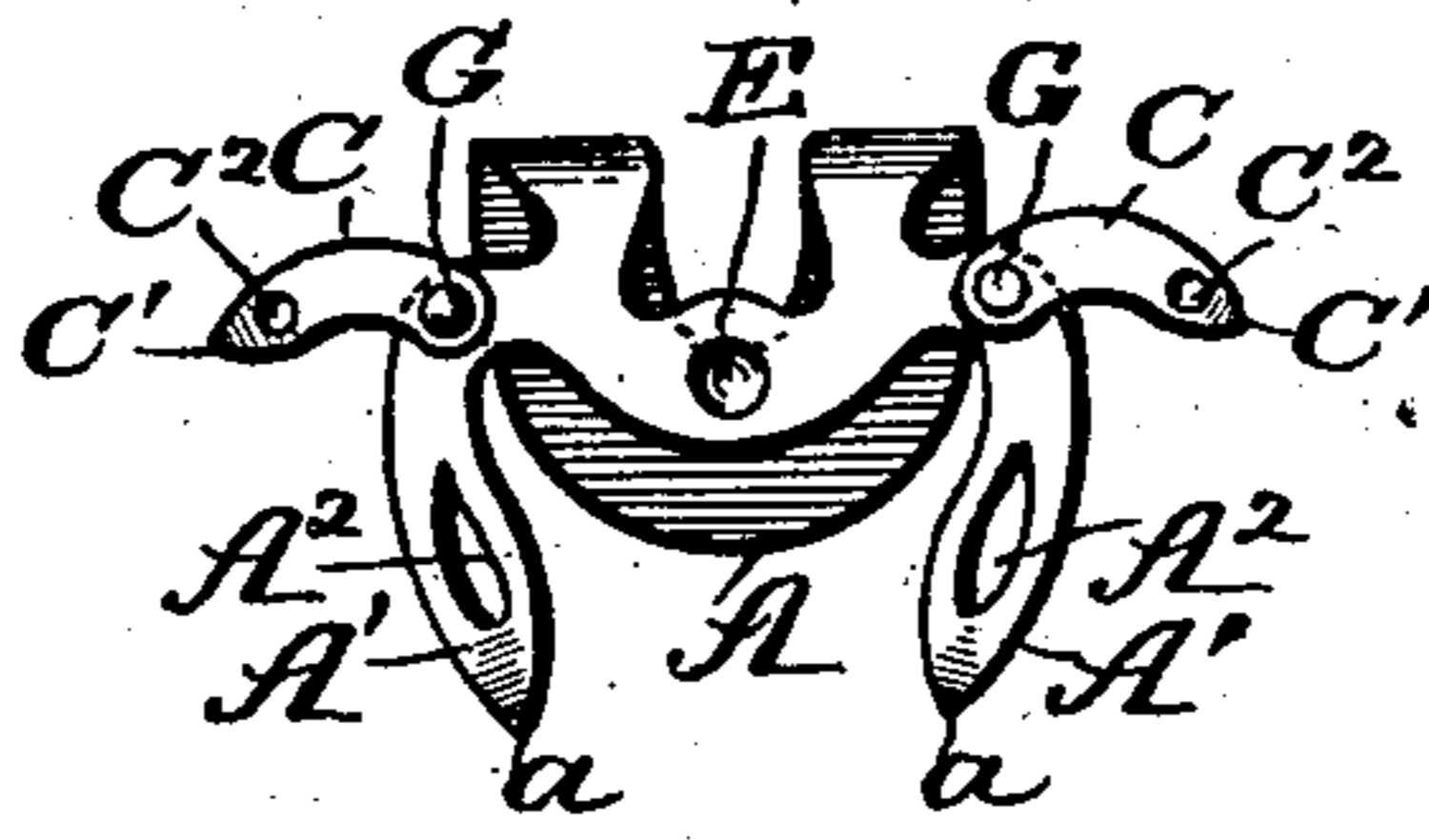


Fig. 5.

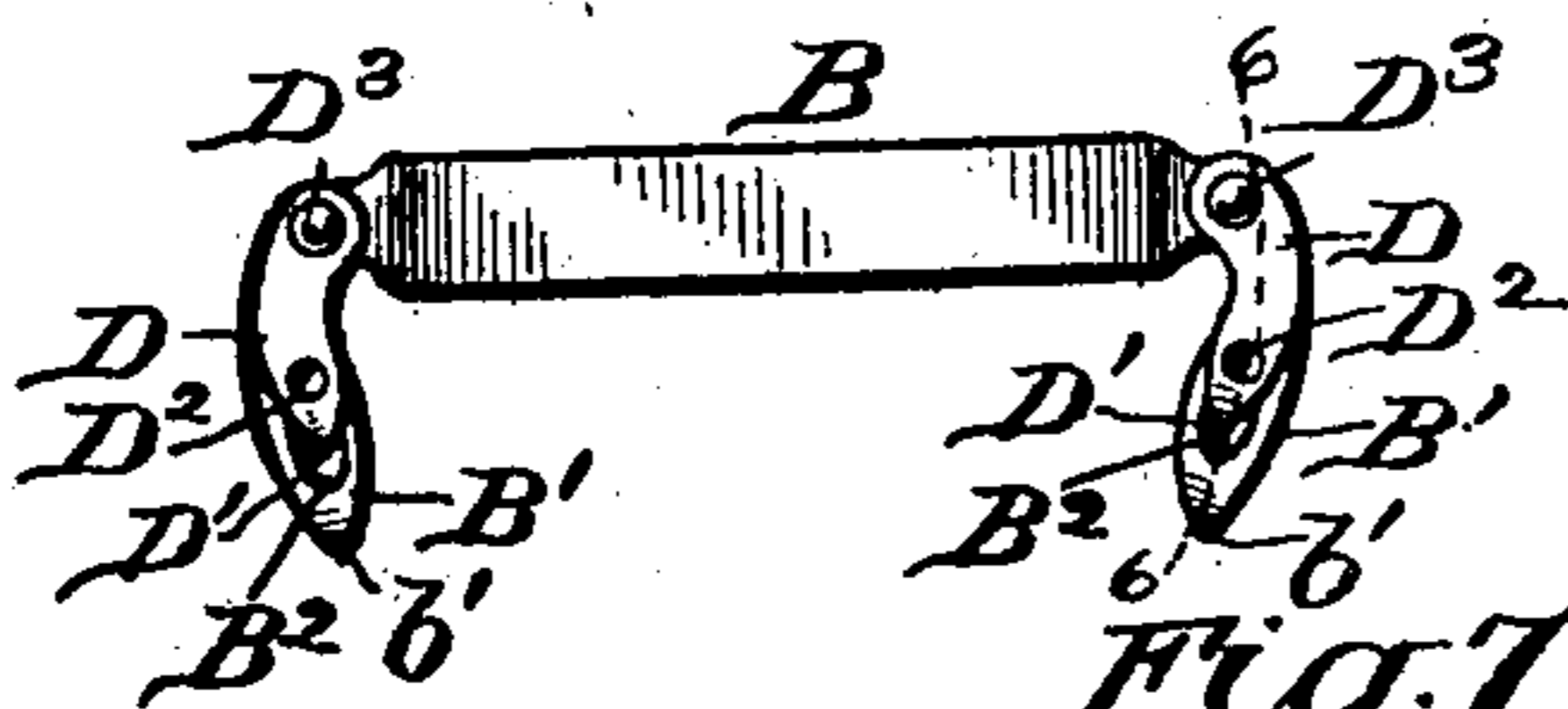


Fig. 6.

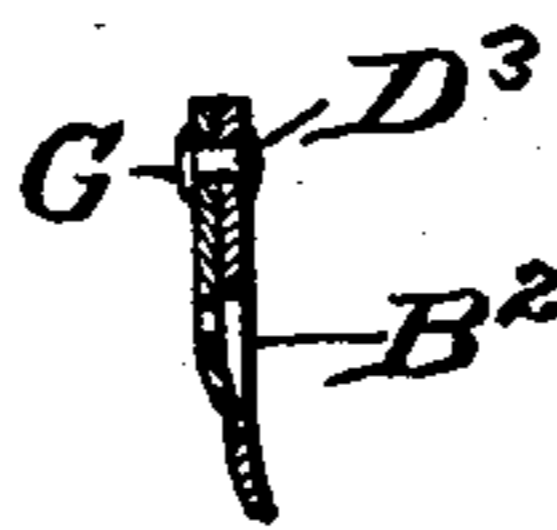
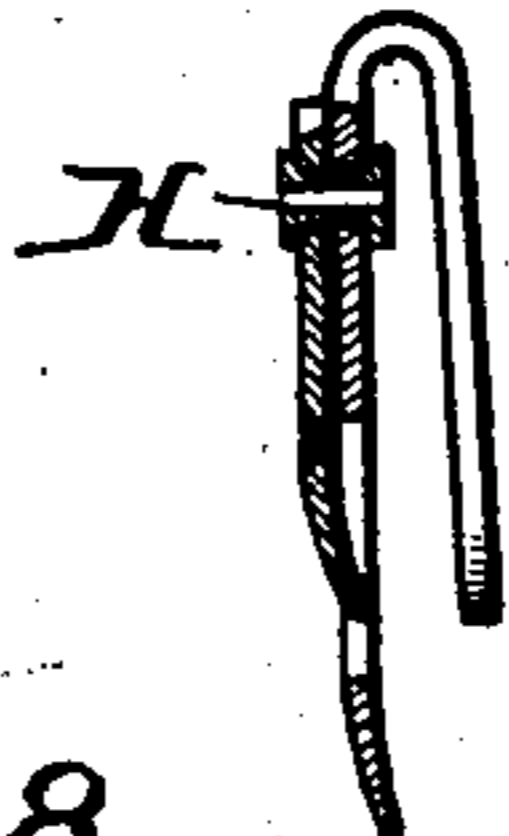


Fig. 7.



WITNESSES:

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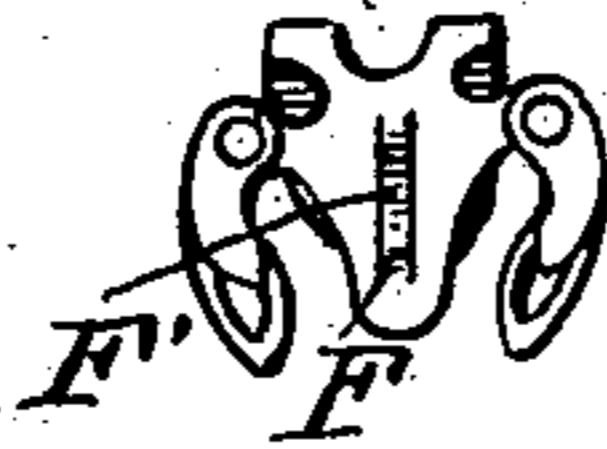
Fig. 8.



Fig. 9.



Fig. 10.



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HOOK AND EYE.

SPECIFICATION forming part of Letters Patent No. 728,770, dated May 19, 1903.

Application filed September 16, 1902. Serial No. 123,606. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH FRANCIS SCHOEPPPL, a citizen of the United States, residing at Baltimore, in the State of Maryland, have made certain new and useful Improvements in Hooks and Eyes, of which the following is a specification.

My invention relates to a hook-and-eye or like connecting device, and has for an object to provide improvements in devices of such class intended especially for use in trousers-fasteners at the waistband; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is an elevation, partly in perspective, showing my improvements applied, parts being broken away to expose the fasteners and the parts thereof, whereby they are secured to the garment. Fig. 2 is a rear elevation, and Fig. 3 a section on about line 3 3 of Fig. 2, showing a hook embodying my invention with the swiveled tongues turned to overlies the pointed wings of the hook. Fig. 4 is a rear elevation of the hooks shown in Fig. 2 with the swiveled tongues turned out in the position they are shown as occupying when secured to the garment as in Fig. 1. Fig. 5 is a rear elevation of a bar provided with my improvements. Fig. 6 is a section on about line 6 6 of Fig. 5. Fig. 7 illustrates an eyelet-pivot for the swiveled tongue instead of the rivet shown in the other figures; and Figs. 8, 9, and 10 are respectively front, side, and rear elevations of a somewhat different construction of hook, as will be hereinafter described.

By my invention I provide in connection with the hook A or the bar B wings A' or B' at the ends of the body portion of the hook or bar, which latter constitutes the eye, and projecting at approximately a right angle to the said body portion. It may be desired to curve the wings slightly inward toward their points *a'* and *b'*, and it may also be desired to deflect said points slightly outward, (see Fig. 3,) so they will when applied as shown in Fig. 1 press against or slightly embed in the garment, and thus be protected, as will be understood from Figs. 1 and 3. As shown in Figs. 2, 3, 4, and 6, the wings are preferably provided with openings A² or B², which

may be elongated in the direction of length of the pointed wings and be located about the middles of the said wings, as shown. The purpose of these openings is to afford passage for the stitches in sewing the fastening devices in place, as shown in Fig. 1, and also to receive the points C' or D' of the swiveled tongues C and D. These tongues C or D are pivoted at G or D³ to the fastening devices approximately at the butt-end of the wings A or B and may be turned into alignment with and overlying the wings A or B in inserting the fastener through the cloth of the garment to position for use and may then be turned to project, as shown at the left in Fig. 1, in the opposite direction to that of the wings B or to extend laterally to the said wings, as shown at the right in Fig. 1, and thus aid in securing the fastening device in place. I also provide the tongues near their points C' or D' with openings C² or D² for use in stitching the fastener in place.

It will be understood, especially from Figs. 3, 6, and 7, that when the tongue is turned to overlies the wing with which it coöperates the point of said tongue will lie beneath the outer surface of the wing, resting in the opening A² or B² in such manner as to form no projection in forcing the pointed wings through the cloth of the garment. This is important, as it enables me to turn the tongues to overlies the wings A' or B' and to arrange them when so adjusted to form no projection whatever at their points above the surface of the said wings, so the wings can be forced like spurs through the cloth of the garment to the position shown in Fig. 1 without the tongues interfering with such operation. Then after the wings, with the overlying tongues, have been forced through the garment the wings can be turned from their overlying positions on said wings to aid in securing the fastening device in place, after which the wings and tongues can be stitched to the garment, if desired, and, as shown in Fig. 1, in order to secure the fastening device permanently in place.

In Figs. 2, 3, and 4 I show the body portion of the hook with humps or rounded projections E to aid in securing the eye when engaged by said hook. In Figs. 8, 9, and 10 I show a construction of hook designed to be

made smaller than that shown in Figs. 2, 3, and 4, and in this construction I produce the fastening-hump by slitting the body of the hook longitudinally at F in two parallel lines 5 and then bending up the intermediate strip to produce the projection F', as best shown in Fig. 9.

While I have shown the tongues as pivoted by means of rivets G, (see Figs. 2, 4, and 6,) 10 the pivot may be effected by means of an eyelet H, as shown in Fig. 7, which may be preferred in some instances, as it affords an additional stitching-opening for use in securing the fastener permanently in place.

15 In applying my fastening device the swiveled tongues may be turned, as shown in Figs. 2 and 5, to overlies the wings, and the fastener may be applied by forcing the wings through the cloth of the garment to position 20 for use, as will be understood in Fig. 1, after which the swiveled tongues may be adjusted as desired.

Having thus described my invention, what I claim as new, and desire to secure by Letters 25 Patent, is—

1. A hook-and-eye connecting device having a body portion and opposite wings extending therefrom approximately parallel with each other and provided at about their middles with openings, and the fastening- 30 tongues pivoted at one end, and arranged to be turned to overlies the wings and to rest at their free ends in the openings of said wings, and to be turned from such position for use substantially as and for the purposes set forth. 35

2. A hook-and-eye connecting device comprising a body portion provided at its opposite ends with spur-like wings extending in approximately the same direction and also having at its ends swivel-tongues which may 40 be turned into alinement with and overlapping said wings in inserting the wings in the garment, the wings and tongues being provided with openings for the thread by which to secure the connecting devices to the gar- 45 ment, substantially as set forth.

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Witnesses:

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