

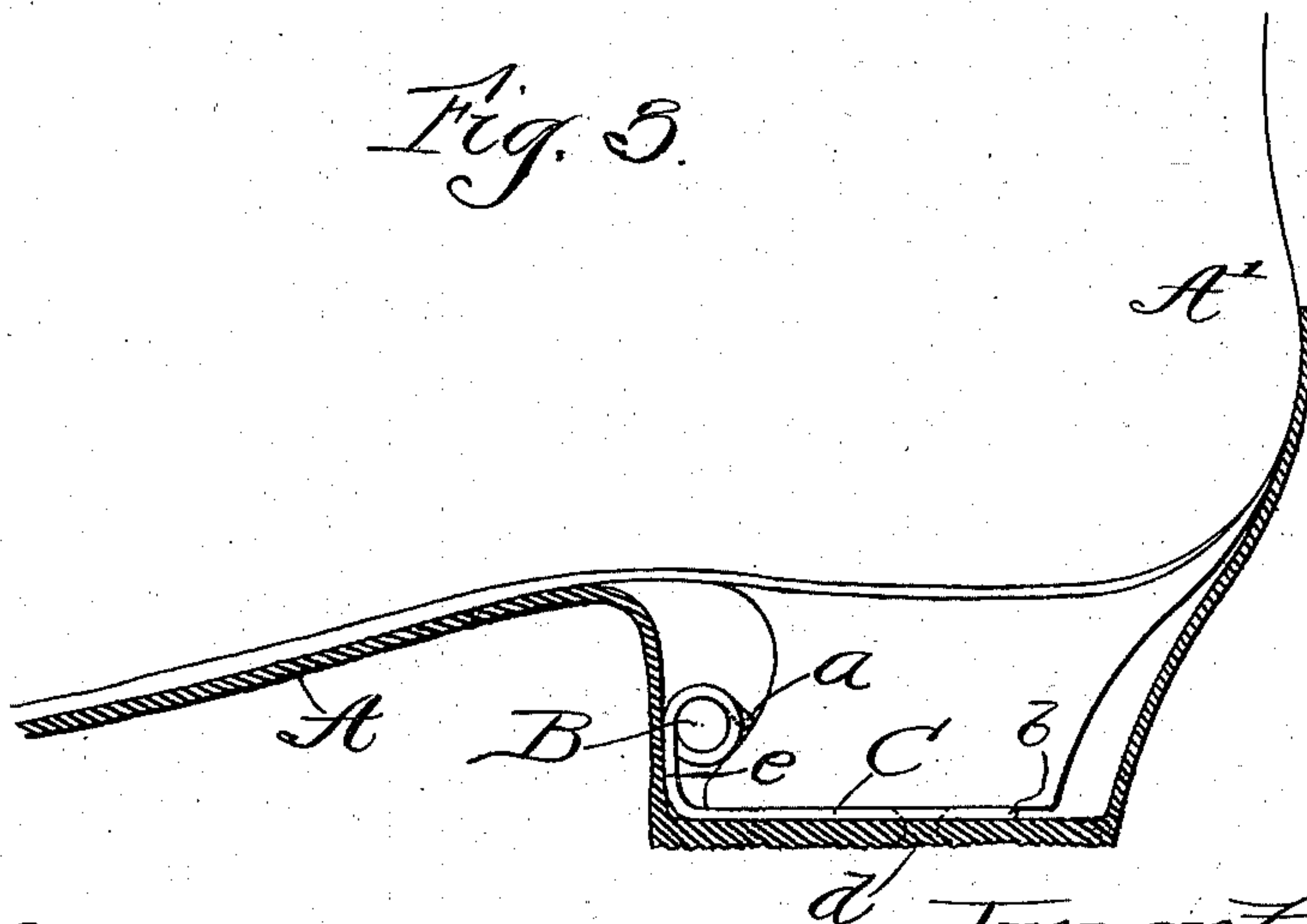
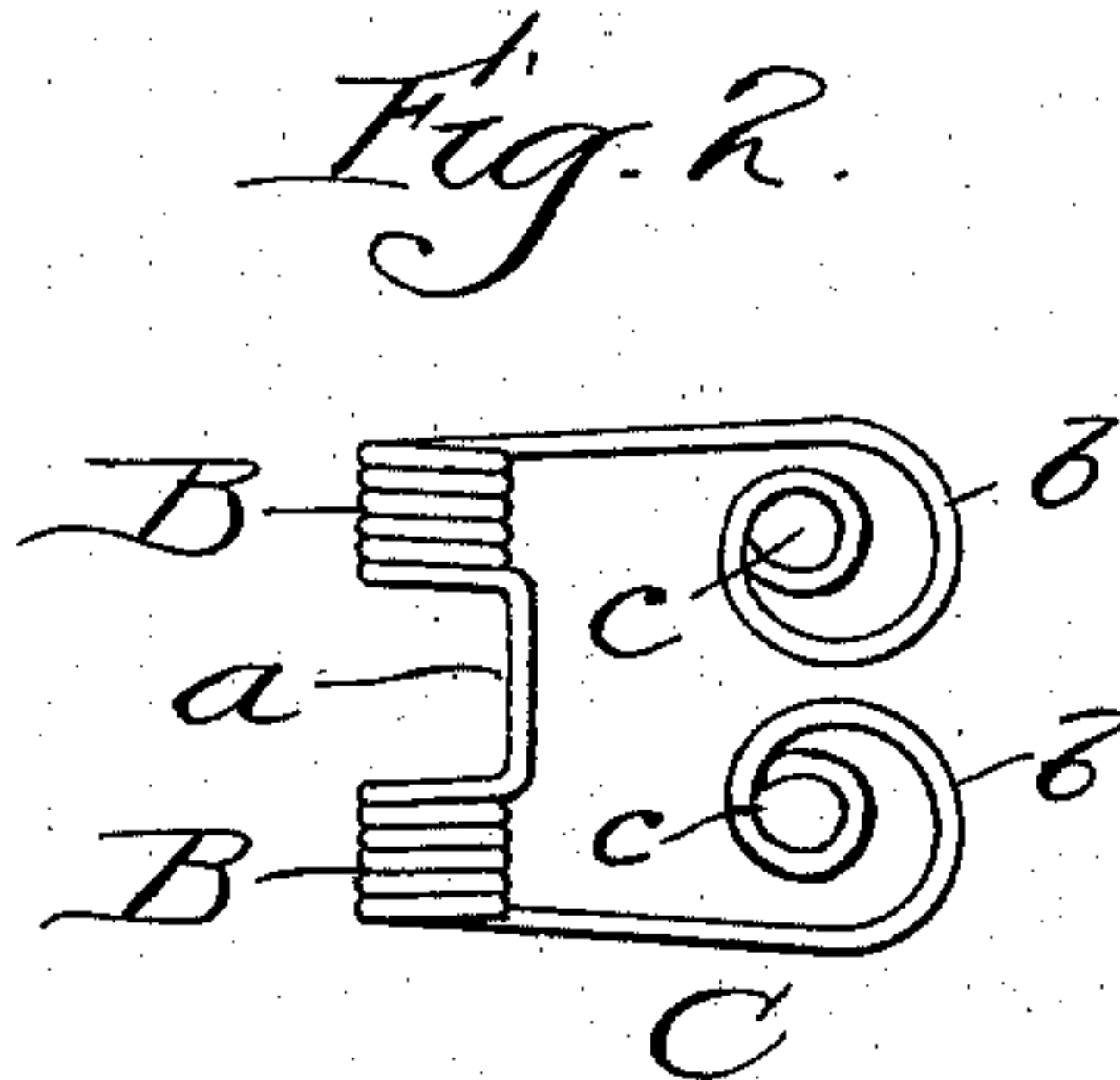
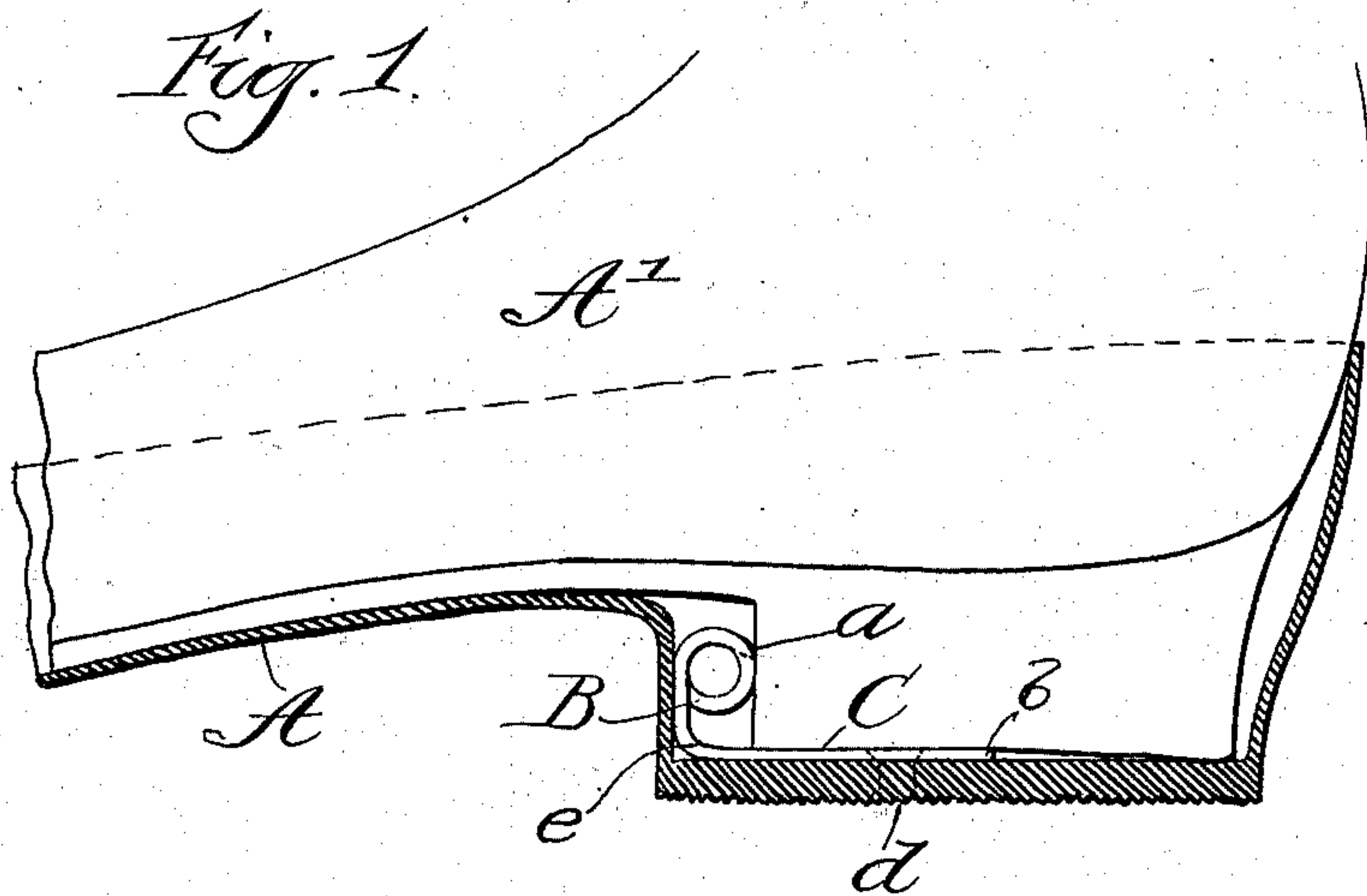
(No Model.)

N. D. EDMONDS.

DEVICE FOR RETAINING RUBBERS OR OVERSHOES ON SHOES.

No. 558,937.

Patented Apr. 28, 1896.



Witnesses.

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UNITED STATES PATENT OFFICE

NELSON D. EDMONDS, OF CHICAGO, ILLINOIS.

DEVICE FOR RETAINING RUBBERS OR OVERSHOES ON SHOES.

SPECIFICATION forming part of Letters Patent No. 558,937, dated April 28, 1896.

Application filed August 12, 1895. Serial No. 558,991. (No model.)

To all whom it may concern:

Be it known that I, NELSON D. EDMONDS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Device for Retaining Rubbers or Overshoes on Shoes, of which the following is a specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a longitudinal vertical section through a portion of an ordinary shoe designed for men's wear and an ordinary india-rubber overshoe, the latter having secured in its heel portion my improved retaining device. Fig. 2 is a plan view of my improved 15 device; and Fig. 3 is a view similar to that of Fig. 1, showing, however, a different style of shoe, being one more especially designed for a lady.

20 This invention relates to a device for retaining rubbers or overshoes on shoes, and is an improvement on the device set forth in Letters Patent No. 536,244, dated March 26, 1895, granted to Leon J. Weatherwax and 25 myself. In the form of construction shown in said patent it will be observed that in order to have both of the securing-arms leave the coil on a line with the lower edge of said coil it is necessary to bend the wire that forms 30 the coil and the arms back on itself at a point where one of the said arms commences, thereby forming an awkward bend, which is objectionable for several reasons.

35 One of the objects of the present invention is to improve the prior construction, to avoid the presence of the objectionable bend referred to, and to provide a device for the purpose specified which embodies a coiled wire portion placed at the forward end of the heel 40 of the rubber or overshoe, which coiled wire portion is so formed as to permit the two ends of the material of which it is composed to be extended out in the proper direction to form arms without the bending of one of them. I 45 accomplish this object by making the coil in two small reversely-coiled portions connected together by a short straight central piece which projects slightly beyond the rear side of the coils and forms a very effective bearing 50 edge for engagement with the breast of the shoe-heel.

Another object of my invention is to pro-

vide a new means for allowing for the lengthening and shortening of the securing-arms in order that the device may be used with equal 55 effectiveness in connection with shoes of varying sizes. This I accomplish by bending the rear ends of the retaining-arms in such manner as to form springs, so as to enable the main or forward portion of the device to 60 be sprung forward when a large shoe-heel is inserted in the rubber and be firmly held against the breast of such shoe-heel, and when the wearer removes his shoe from the rubber the main portion of the device will be sprung 65 back far enough to enable a smaller-heeled shoe to be inserted and firmly held.

Still another object of my invention is to adapt the device for use with ladies' shoes that have high heels provided with inwardly- 70 curved breasts. I accomplish this by having the material of which the two reversely-formed coils are made extended downward a little at the end of each of such coils and then bent backward to form the arms before re- 75 ferred to. This construction raises the two coils sufficiently to enable them and the short straight piece connecting them to properly engage the curved breast of a heel, and at the same time such construction will not ordina- 80 rily be objectionable for use in connection with a shoe-heel of the character usually affixed to a man's shoe.

Referring now to the accompanying drawings, A indicates an ordinary overshoe of india-rubber or other material, and A' an ordinary shoe, the shoe in Fig. 1 being a man's shoe and that in Fig. 3 being a woman's shoe.

B B indicate two separated spiral coils of 90 spring-wire reversely coiled, and connected together by a short straight cross bar or piece *a*, which, as shown, projects slightly beyond the rear sides of the coils B B and holds the two coils separated.

95 C C indicate arms extending backward from the coils, and each having at its rear end a loose coil *b*, which terminates in an eye *c* for the insertion of rivets *d*, by which the device is secured to the heel of the overshoe. 100

e indicates a downward-extending portion of each arm C at its forward end, the object of which is to raise the coils B B sufficiently above the surface of the overshoe-heel to en-

able a firm contact to be had between the coils and their connecting-piece *a* and the curved breast of a lady's shoe.

As shown in the drawings, the device as a whole is made of a single piece of material, the material employed being spring-wire.

The device can be very readily applied with but little cost, and when applied will be found very effective in retaining the overshoe in place, even when such overshoe is of a size somewhat larger than could ordinarily be worn by the user without a special retaining device.

This invention has all of the advantages specified for the device in the former patent referred to, with the added advantage of automatically adjusting itself to shoe-heels of different sizes, owing to being provided with the spring portions *b b*, and also of being capable of effectively holding in position rubbers or overshoes worn upon shoes having heels with curved breasts. The construction of the forward portion in two reversely-coiled parts with the straight central connection is also a material improvement over the old construction shown in said patent in that it enables both arms *C* to be extended straight back without forming the objectionable bend in the wire at the end of either coil, which is necessary in the construction shown in Patent No. 536,244, before mentioned, while at the same time a very effective bearing is provided by the cross bar or piece *a*.

That which I claim as my invention, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, an overshoe-retaining device, consisting of two separated coils of spring material connected together by a central, intermediate cross-bar which holds the two coils separated, and means for securing the coils to an overshoe, substantially as described.

2. As an improved article of manufacture, an overshoe-retaining device, consisting of two separated spring-coils connected together by a central cross-bar which holds the coils separated, and arms extending respectively from the said separated coils for securing the device to an overshoe, substantially as described.

3. As an improved article of manufacture, an overshoe-retaining device, consisting of two spring-coils wound in reverse directions and provided respectively at their outer ends with arms which extend straight back and are both free from sharp bends at the points where they join the coils, substantially as described.

4. As a new article of manufacture, an overshoe-retaining device consisting of two separated coils of spring material connected together by a central connection which projects beyond the sides of said coils, and means for securing the device to an overshoe, substantially as and for the purpose specified.

NELSON D. EDMONDS.

Witnesses:

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