

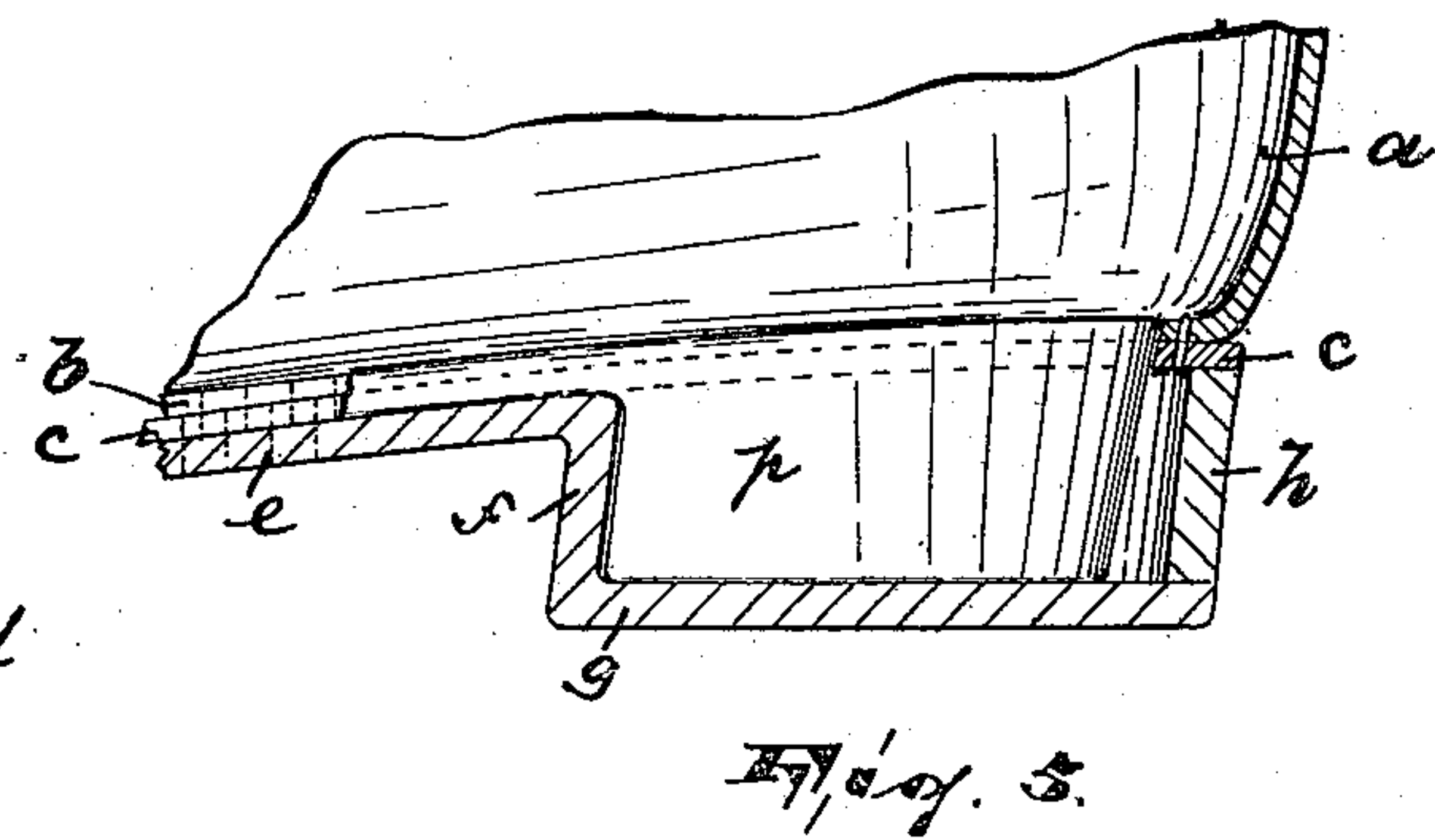
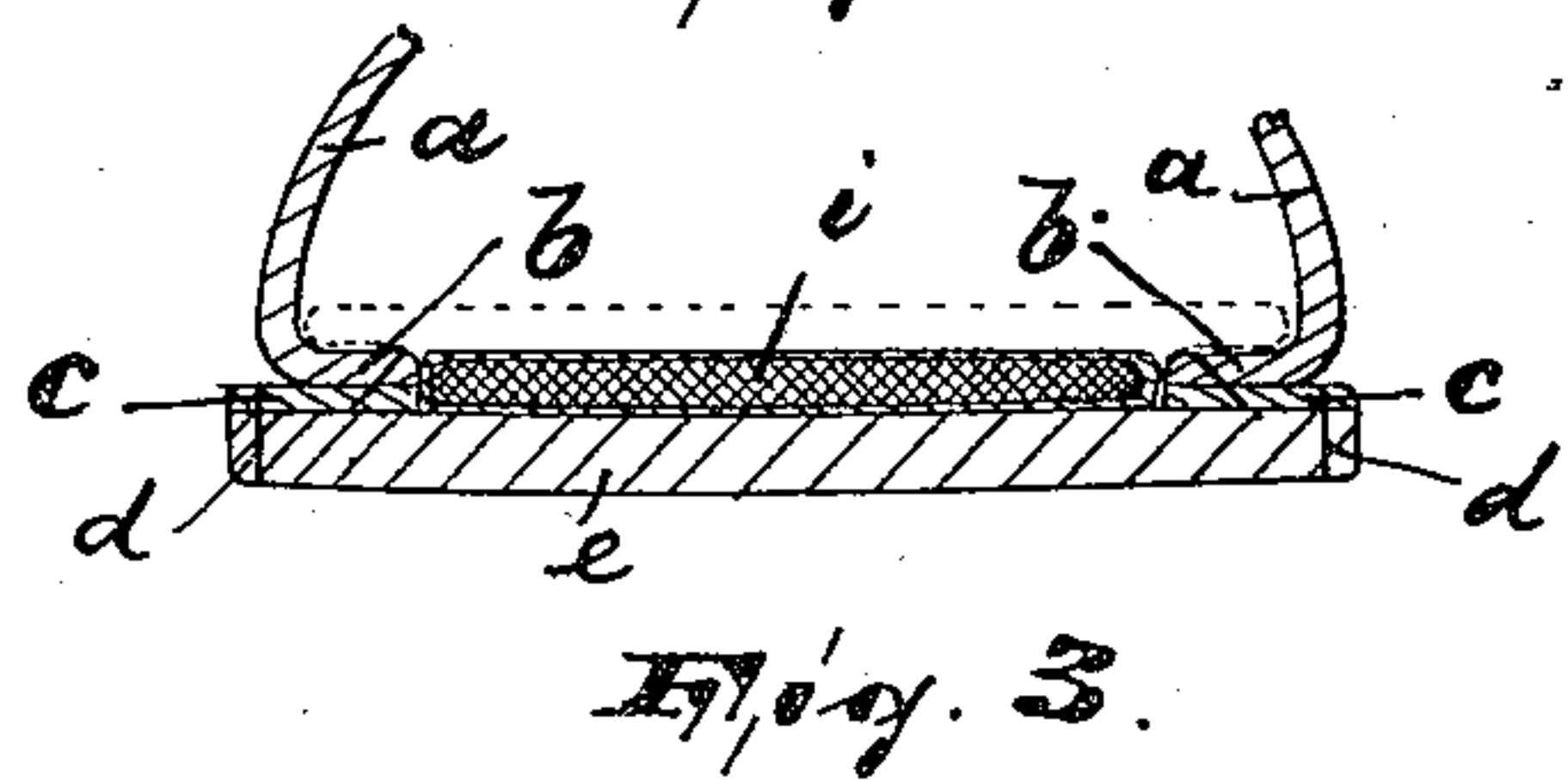
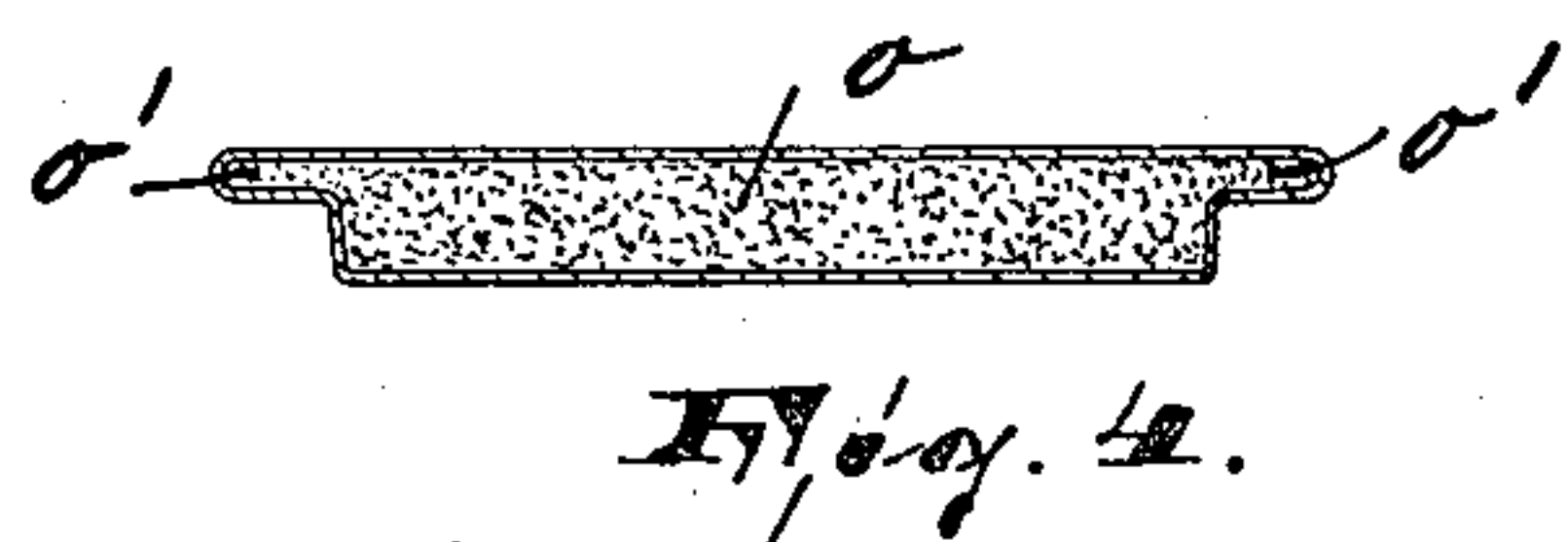
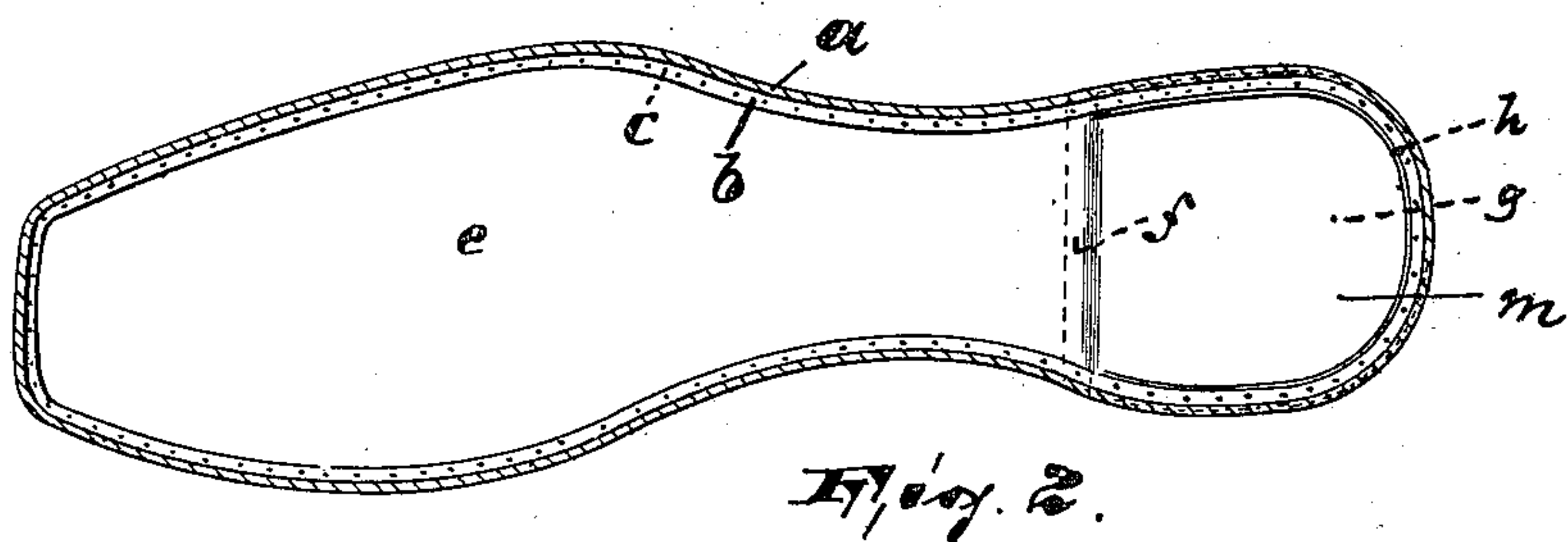
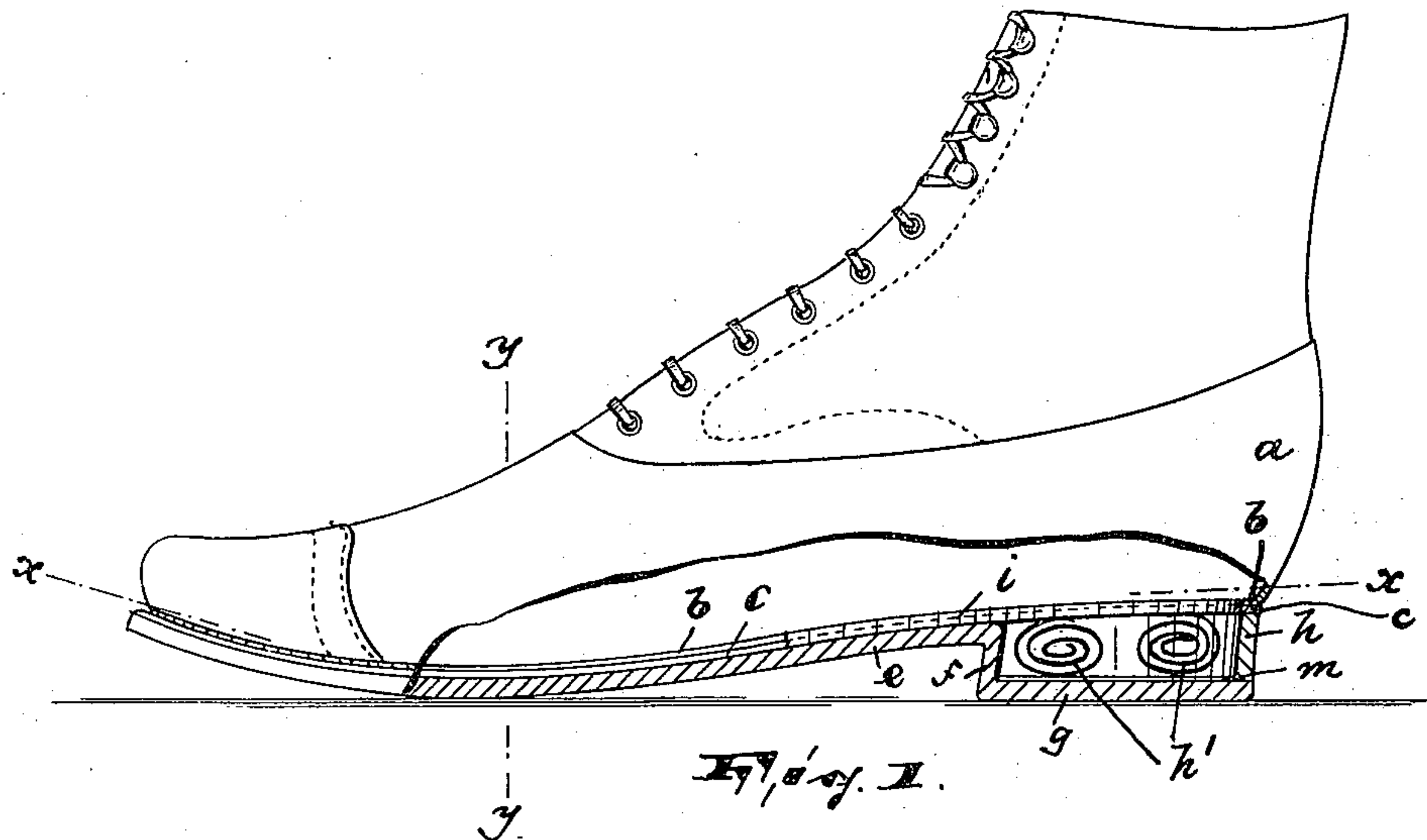
No. 617,701.

Patented Jan. 10, 1899.

A. GOLDBERG.
SHOE.

(Application filed Apr. 4, 1898.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

AARON GOLDBERG, OF PATERSON, NEW JERSEY.

SHOE.

SPECIFICATION forming part of Letters Patent No. 617,701, dated January 10, 1899.

Application filed April 4, 1898. Serial No. 676,267. (No model.)

To all whom it may concern:

Be it known that I, AARON GOLDBERG, a citizen of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my present invention is to provide a hygienic shoe which shall embody great elasticity and consequent comfort without changing its appearance from that of the ordinary shoe and without detracting from its durability.

The invention consists in the improved shoe, in the means for cushioning the heel, and in the combination and arrangement of the various parts, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figure 1 is a side elevation of my hygienic shoe, certain portions being broken away and others shown in section to more clearly illustrate the nature of my said invention; Fig. 2, a sectional view on the line *x x* of Fig. 1, the insole being removed; Fig. 3, an enlarged sectional view on the line *y y* of Fig. 1; Fig. 4, an enlarged detail sectional view of a slightly-modified insole, hereinafter more fully described; and Fig. 5 an enlarged detail sectional view of the rear portion of the shoe, showing the insole provided with an auxiliary heel.

In said drawings, *a* represents the upper of the shoe, having its lower edge bent inward, as at *b*, in the usual manner and securely stitched to a welt *c*, extending all around the lower edge of said upper, as clearly illustrated in the drawings.

To the welt *c* is secured by stitches *d d*, Fig. 3, the sole proper, *e*, the rear portion of which is bent to form the instep and downward and

rearward, as at *f* and *g*, respectively, to form the front and bottom walls of the heel.

The side or periphery of the heel is formed by a strip *h*, which is stitched with its top portion to the welt *c* and with its bottom and end portions to the bent portions *f* and *g* of the sole *e*, respectively. By this arrangement a hollow heel is produced adapted to receive one or more helical springs *h' h'*, which are carried by the insole *i*, as in Fig. 1. It must be remarked that a metallic strip or plate *m* is placed within the hollow heel to provide a suitable bearing for the said helical springs, and, furthermore, that the said helical springs can be substituted by bent or spiral springs without deviating from the scope of my invention.

As illustrated in Fig. 3 of the drawings, the insole *i* rests upon the sole *e* and fits snugly within the recess or opening formed by the inner edges of the flange *b* of the upper *a* and of the welt *c*.

If it is desired to provide a heavy-wear shoe—for instance, for winter-time—an insole *o*, such as illustrated in Fig. 4, is used, which insole is provided with an annular flange *o'*, resting upon the annular flange *b* of the upper. (See also dotted lines in Fig. 3.)

Instead of the springs *h' h'* an auxiliary heel *p*, as shown in Fig. 5, can be used, in which case said auxiliary heel is secured to and carried by the insole *i* and is of a size slightly smaller than the opening in the hollow heel, whereby the said heel can be easily and quickly withdrawn, together with the insole.

It may also be stated that the insoles which are used in connection with the hygienic shoe are preferably made of cork and covered with linen or felt or any other suitable material.

From the foregoing it can be seen that my improved shoe is perfectly hygienic—that is to say, the insole can be quickly and readily removed, together with the auxiliary heel, which latter in Fig. 1 consists of the helical springs *h' h'* and in Fig. 5 of a solid heel *p*. Besides, this construction gives more elasticity to the shoe without changing its appearance.

I do not intend to limit myself to the pre-

cise construction as shown and described, as various alterations can be made without changing the scope of my invention; but

What I claim as new, and desire to secure
5 by Letters Patent, is—

1. In a shoe, the combination with an upper having a welt at its lower edge and an insole, of a single piece of suitable material of substantially uniform thickness shaped to
10 form the sole, the instep portion and the front and lower walls of a hollow heel, said sole and the instep portion being secured to said welt, and a distinct curved strip of said material connected to said piece and the welt
15 and forming the curved wall of said hollow heel, substantially as described.

2. In a shoe, the combination with the upper having a welt at its lower edge, of a single piece of suitable material of substantially

uniform thickness shaped to form the sole, 20
the instep portion and the front and lower walls of a hollow heel, said sole and the instep portion being secured to said welt, a separate and distinct curved strip of said material connected to said piece and the welt and 25
forming the curved wall of said hollow heel, an insole, a plate on the lower wall of the hollow heel, and springs carried by said insole and disposed between the same and said plate, substantially as described.

In testimony that I claim the foregoing I
have hereunto set my hand this 22d day of
March, 1898. 30

AARON GOLDBERG.

Witnesses:

ALFRED GARTNER,
WM. D. BELL.