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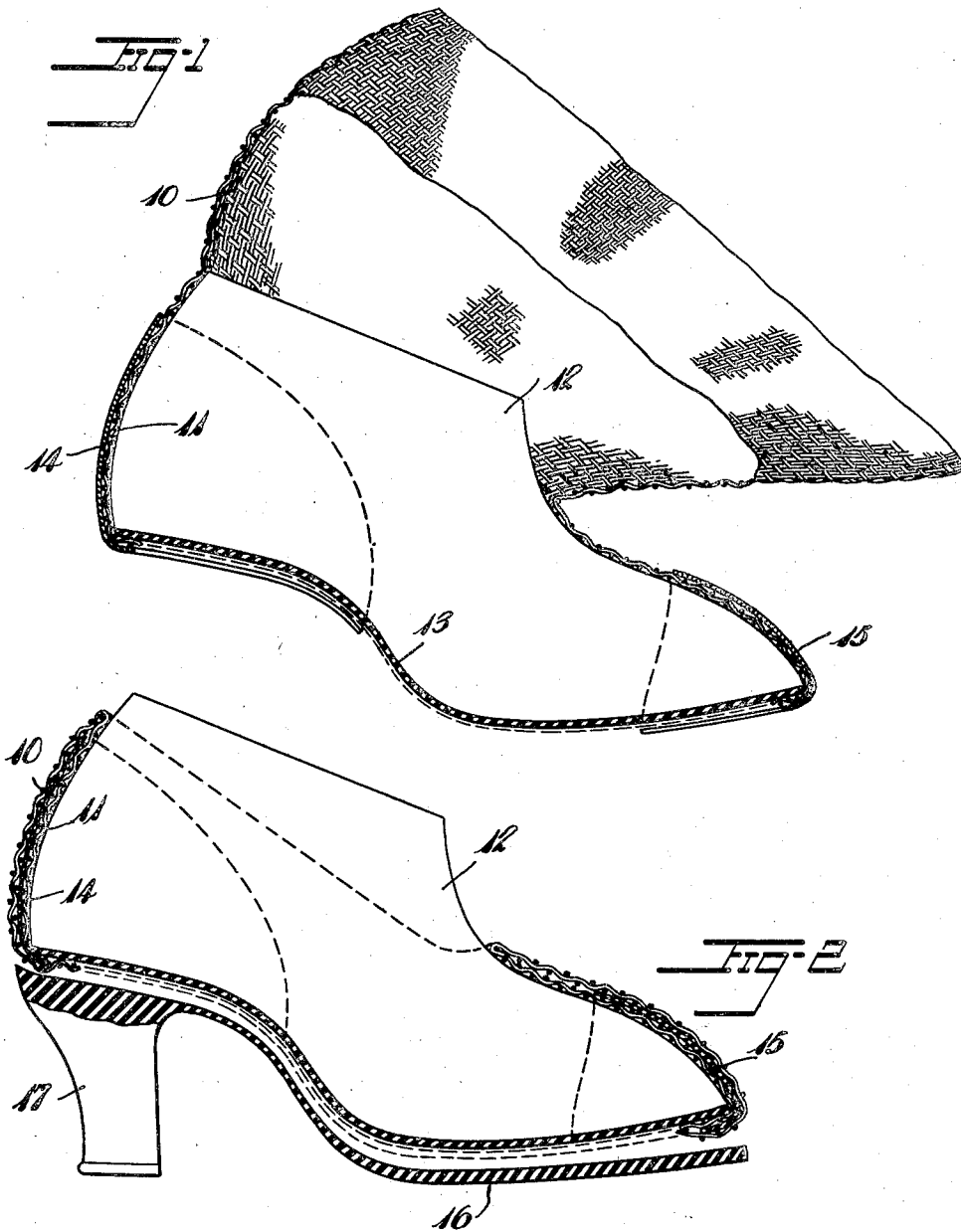
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2,022,967

SHOE AND METHOD OF MAKING THE SAME

Filed April 24, 1934

2 Sheets-Sheet 1



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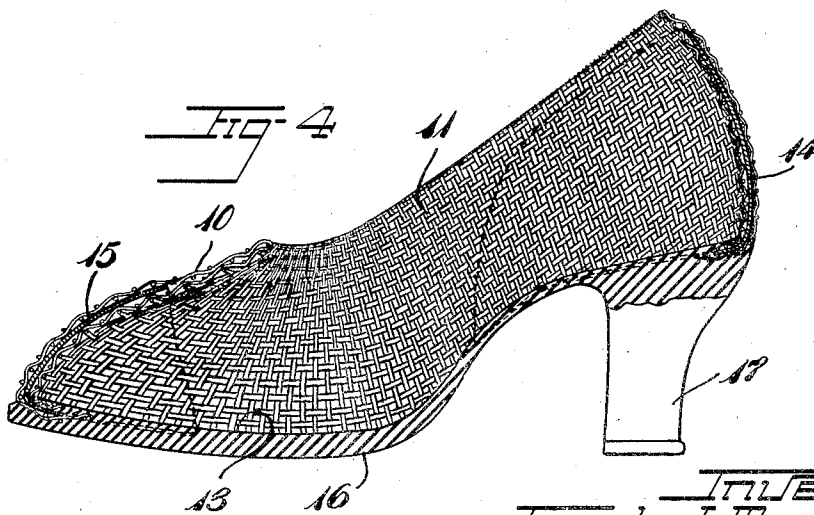
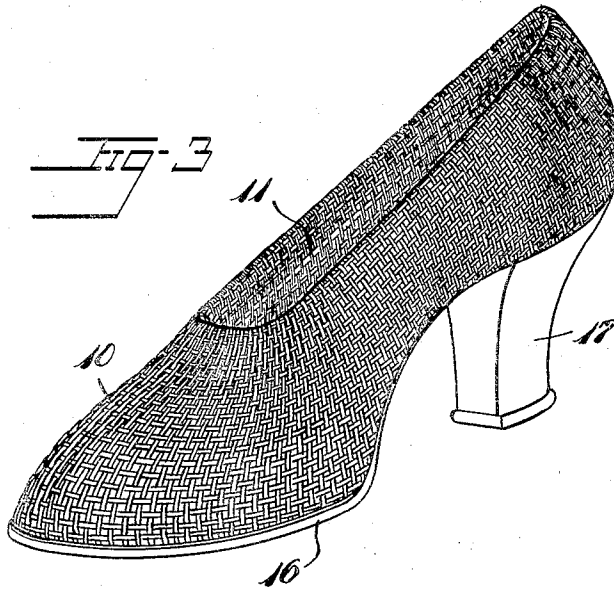
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SHOE AND METHOD OF MAKING THE SAME

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

2,022,967

SHOE AND METHOD OF MAKING
THE SAME

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to Hood Rubber Company, Inc., Watertown,
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Application April 24, 1934, Serial No. 722,109

6 Claims. (Cl. 36-45)

This invention relates to shoes and to shoe manufacturing methods.

Its chief objects are to provide an attractive product; to provide a shoe having good wear-resisting properties; and to provide for economy of manufacture. More specific objects are to provide a shoe having a seamless upper, woven to shape, and thus to avoid waste of material.

Of the accompanying drawings:

Fig. 1 is a side elevation, with parts sectioned and broken away, of a last and shoe parts thereon illustrating my method in one of the stages thereof.

Fig. 2 is a similar view illustrating a later stage thereof.

Fig. 3 is a perspective view of a shoe embodying and made in accordance with my invention in its preferred form.

Fig. 4 is a vertical, longitudinal section of the same.

Referring to the drawings, the shoe comprises a combined upper 10 and lining 11 woven as a single piece of tubular fabric and woven approximately to shape, which conveniently may be accomplished by the use of the machine and method described in my co-pending application Serial No. 708,548, filed January 27, 1934, now Patent Number 1,998,815, issued April 23, 1935.

This combination fabric member, initially woven as a doubly flared tubular member as shown in Fig. 1, is first mounted upon a last 12 with only its lining portion 11 embracing the last, and the lining portion is pulled snugly onto the last and its sole margin is pulled over and lasted to the outer marginal face of an insole 13 mounted upon the last, after which preformed heel and toe stiffeners 14, 15, preferably of molded fibrous composition are mounted in place upon the lining and adhered at least to the sole-margin thereof, permissibly by the use of cement.

The portion 10 of the piece constituting the upper is then turned down over the lining portion

on the last, to the position shown in Fig. 2 and its sole margin is adhered or lasted to the marginal portions of the lining, stiffeners and insole, after which an outsole 16 and heel 17 are applied and the shoe is then vulcanized, producing the article of Figs. 3 and 4.

I claim:

1. The method of making a shoe which comprises weaving a tubular fabric having two tapered portions adapted to serve respectively as 10 an upper and a lining for a shoe, folding one of the tapered portions onto the other to provide a one piece two-ply structure, and attaching the free margins of both portions to a sole.

2. A method as defined in claim 1 in which a 15 stiffening member is inserted between the two plies of fabric.

3. The method of making a shoe which comprises weaving a tubular fabric having two tapered portions adapted to serve respectively as an upper 20 and a lining for a shoe, lasting the lining portion thereof, applying a stiffener to said lining, and then lasting the portion of the fabric constituting the upper.

4. A low shoe having a lining and an upper con- 25 stituting a single piece of unseamed tubular fabric folded one upon the other about the mouth of the shoe and having its margins attached to a sole.

5. A low shoe having a lining and an upper 30 constituting a single piece of unseamed tubular fabric folded one upon the other about the mouth of the shoe with its margins attached to a sole, and a stiffener mounted between the lining and the upper.

6. A low shoe having a lining and an upper con- 35 stituting a single piece of seamless tubular fabric folded one upon the other about the mouth of the shoe and a stiffener mounted between the lining and the upper and adhered at least to their sole margins the margins of both the upper 40 and lining being attached to the sole.

FRANK J. MACDONALD.