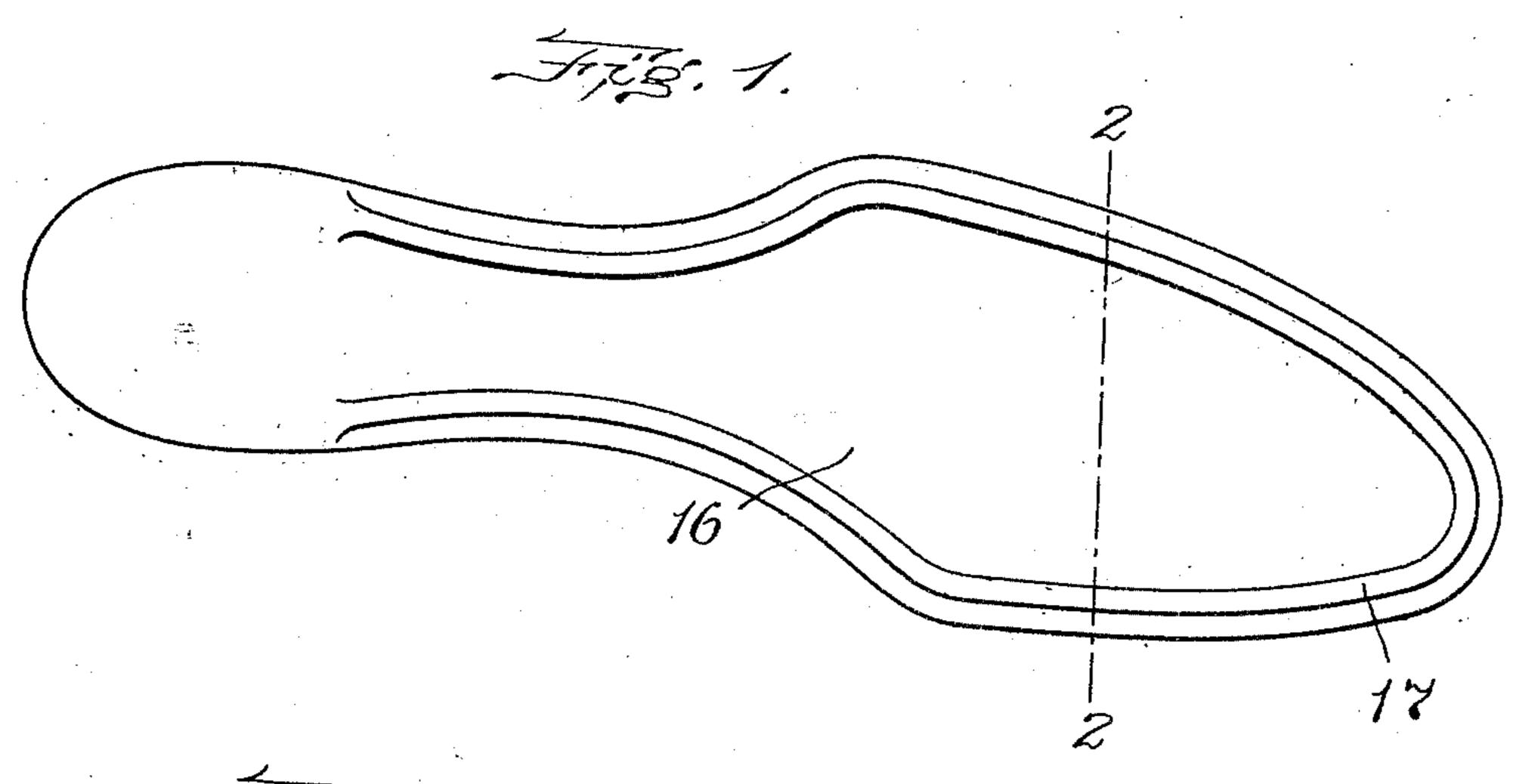
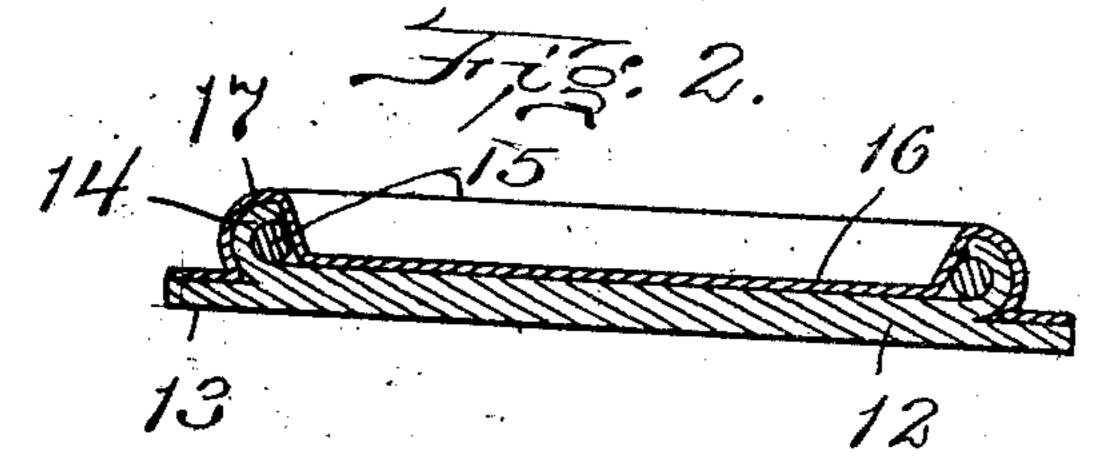
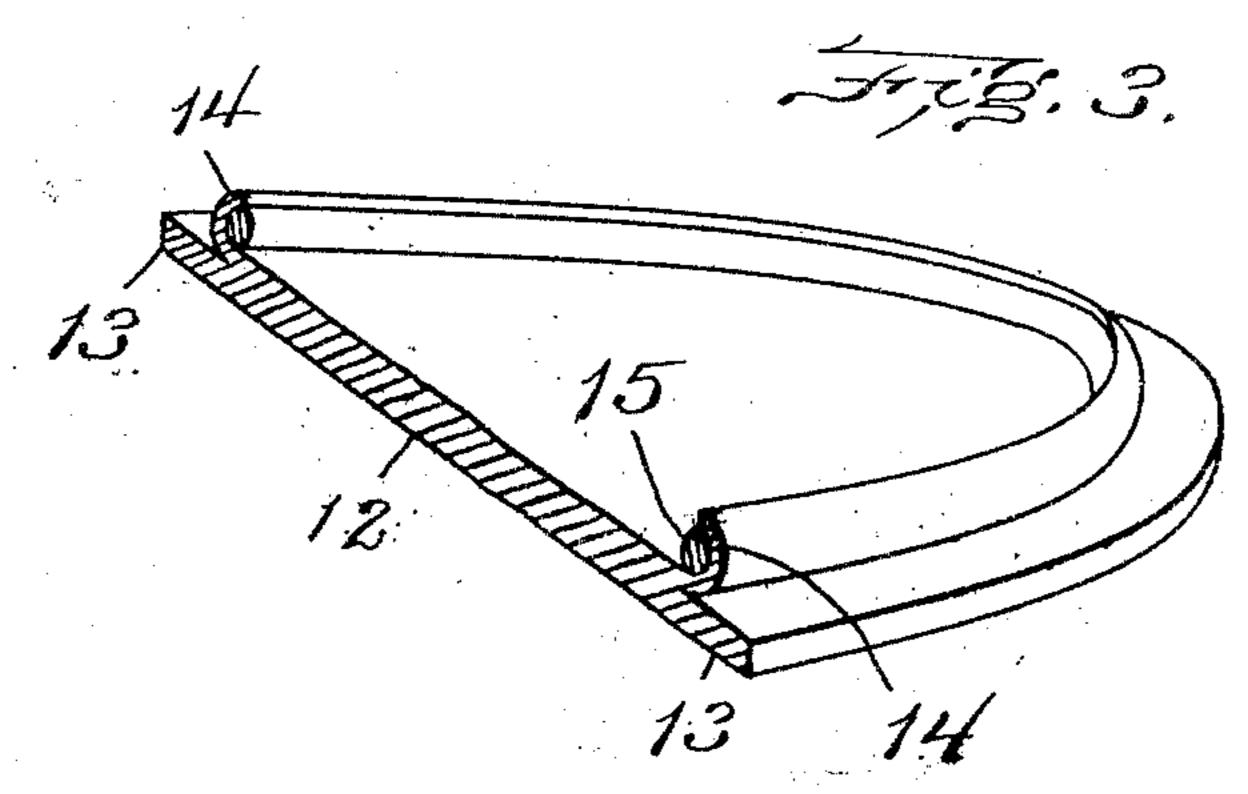
F. M. WADE. INNERSOLE.

APPLICATION FILED FEB. 16, 1906.







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UNITED STATES PATENT OFFICE.

FRED M. WADE, OF BROCKTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO GEO. E. KEITH COMPANY, OF BROCKTON, MASSACHU-SETTS, A CORPORATION OF MASSACHUSETTS.

INNERSOLE.

No. 826,975.

Specification of Letters Patent. Patented July 24, 1900.

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To all whom it may concern:

Brockton, in the county of Plymouth and State of Massachusetts, have invented certain 5 new and useful Improvements in Linersoles, of which the following is a specification.

This invention relates to innersoles for welt-shoes, and particularly to that class of innersoles which comprises a body portion co-split or channeled at its edge to form a feather and a lip, the latter being turned outwardly from the outer face of the body portion, and a reinforcing layer of canvas or other suitable material secured to the outer 15 face of the sole and covering said outer face, the outer surface of the feather, and the outwardly-turned lip, a portion of the reinforcing layer being offset to form a casing or cover which incloses the lip. In a sole of this char-20 acter as heretofore constructed the lip and the portion of the reinforcing layer covering the same constitute the entire body of the rib which engages and supports the inseamstitches, the said rib being therefore com-25 posed of three thicknesses at the portion | form the usual feather 13 and lip 14. 15 through which the stitches pass—viz., the lip of the body portion and the two sides of the offset portion of the reinforcing layer covering said lip. As this rib has to support the pres-30 sure due to the heavy tension exerted on the thread in taking up the inseam-stitches, the ordinary construction above outlined requires that the body portion be made of maximum thickness and of a relatively expensive 35 grade of material in order that the rib composed only of the lip of the body portion and the parts of the reinforcing layer that cover the rib may have suitable thickness and resistance to the pressure exerted upon the rib 40 by the inseam-stitches.

My invention has for its object to enable a sole of the character stated to be manufactured at less expense than heretofore by the use of a body portion, which may be thinner 45 and of less expensive material than is required in the ordinary construction; and to this end the invention consists in an innersole comprising a body portion having the usual feather and lip, a reinforcing member, 50, which is preferably a cord of linen or other fibrous material, bearing on the outer side of the body and on the inner side of the lip, the

said member reinforcing the lip and adding

materially to the strength and thickness Be it known that I, Fred M. Wade, of | thereof, and a reinforcing layer covering to 55 outer side of the body portion and feather and having an offset portion covering the lip and its reinforcing member and confining the latter in place.

Of the accompanying drawings, forming a 60 part of this specification, Figure 1 represents a view of the outer side of an innersole embodying my invention. Fig. 2 represents a section on line 2 2 of Fig. 1. Fig. 3 represents a perspective sectional view showing 65 the toe part of the body portion and the corresponding part of the reinforcing member, the reinforcing layer being removed. Fig. 4 represents an enlargement of a portion of Fig. 2, showing portions of the upper and 70 welt united to the rib of the innersole by the inseam-stitches.

The same numerals of reference indicate the same parts in all the figures.

In the drawings, 12 represents the body 75 portion of a ribbed innersole for a welted shoe, the same being split at its margin to represents a reinforcing member which is placed upon the outer surface of the body 80 portion and against the inner side of the lip. The said reinforcing member is preferably a stout cord composed of twisted fibers of linen or other suitable material, although I do not limit myself to this material and may em- 85 ploy a reinforcing member adapted for the uses herein set forth composed of any suitable material. The lip 14 is bent inwardly over the reinforcing member, so that its outer edge overhangs the reinforcing member, as 90 shown in the drawings.

16 represents the reinforcing layer, which is preferably composed of canvas or other stout textile fabric and is formed to cover the outer surfaces of the body portion and 95 feather and the lip and rib, as shown in Fig. 2, the reinforcing layer having an offset portion 17 closely fitting the ridge formed by the lip and the reinforcing member.

The offset portion 17, the lip 14, and the 100 reinforcing member 15 collectively constitute a compound rib or wale adapted to engage the inseanî-stitches 18, which unite the upper 19 and welt 20 to the innersole, as shown in Fig. 4. The reinforcing layer 16 is cemented 105 to the body portion, and its offset portion 17.

member, holding the outer edge of the lip bent over the coinforcing member, so that the inseam-stitches passing either through or under the reinforcing member cannot displace or force outwardly the reinforcing member to such an extent as to make it a part of the surplus material of the rib, which is subsequently trimmed off by the inseamto trimmer. By reference to Fig. 4, where the surplus material removed by the inseemtrimmer is indicated by the parts above the line x x, it will be seen that the reinforcing member is confined below said line by the off-15 set portion of the reinforcing layer and by the bent edge of the lip interposed between said offset portion and the reinforcing member 15. Hence the reinforcing member is not liable to be touched by the inseam-trimming cutter, so which is used after the stitching operation.

My improvement, consisting in the inclusion in the offset portion 1.7 of the reinforcing layer of a reinforcing member 15 in addition to the usual lip, enables the material of the 25 body portion to be made lighter and thirmer and of less expensive material than would otherwise be necessary, the reinforcing member 15 materially strengthening and increasing the abickness of the stitch-engaging rib 30 without correspondingly adding to the cost of manufacturing the innersole. In fact, the cost of the sole is not appreciably greater than that of the ordinary sole of this type, in which the lip slone is included in the offset 35 portion of the reinforcing leyer.

bears closely upon the hip and reinforcing | shoeinnersole comprising albody portion, split or channeled at its margin to form a feather and a lip, a reinforcing gord or member bear- 40 ing on the outer side of the body and on the inner side of the lip, and a reinforcing layer covering the outer side of the body portion and feather and having an offset portion covering the lip and its reinforcing member 45 and confining the latter in place, the said offset portion, lip and reinforcing member constituting a compound inseam-stitch-engaging rib or wale.

> 2. As an article of manufacture a welt- 50 shoe innersole comprising a body portion split or channeled at its margin to form a ffeather and a lip, a reinforcing aord or member beaming on the outer side of the body portion and on the inner side of the lip, the outer edge of the 55 lip being bent over the reinforcing-cord, and a reinforcing layer covering the outer side of the body pontion and feather and having in offset partion covering the lip and reinforcing member and confining the latter in place, the 60 bent portion of the lip, which contains the surplus lip material subsequently removed in the inseam-trimmer, being interposed between the reinfercing member and the crown of the said offset portion and preventing the 65 outward displacement of the ceinforcing member by the inseam-struckes.

In testimony whereoff I have affixed may signature in prosecue of two witnesses.

TRED M. WADE.

Witnesses:

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