

J. N. MOULTON.

WELT STRIP.

APPLICATION FILED JUNE 27, 1908. RENEWED OCT. 15, 1912.

Patented June 17, 1913.

1,064,980.

*Fig. 1.*

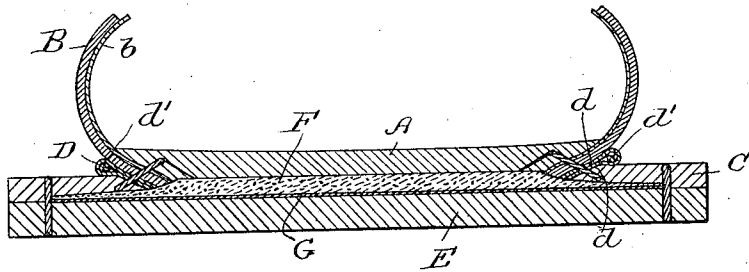
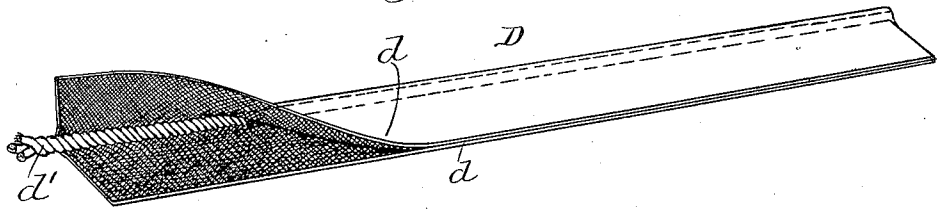


*Fig. 2.*



Witnesses:  
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May

# UNITED STATES PATENT OFFICE.

JAMES N. MOULTON, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR TO MASSACHUSETTS CHEMICAL COMPANY, OF WALPOLE, MASSACHUSETTS, A CORPORATION OF MAINE.

## WELT-STRIP.

1,064,980.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed June 27, 1908, Serial No. 440,679. Renewed October 15, 1912. Serial No. 725,931.

*To all whom it may concern:*

Be it known that I, JAMES N. MOULTON, of Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Welt-Strips, of which the following is a specification.

In my co-pending application, Serial No. 419,711, filed on or about the 7th day of March, 1908, I have illustrated and described an improved welt shoe provided with what I have termed a "combination welt", which is interposed between the upper and the ordinary or usual welt.

The present invention consists of an improvement upon the combination welt therein illustrated and described, said improved combination welt consisting of an elongated strip of frictional rubber which is folded on a longitudinal line over a string or cord, the frictioned surfaces of the strip being pressed together so as to adhere. This welt strip may be furnished in any desirable lengths, and, by reason of its construction as described, is strong and durable and capable of withstanding the strains to which the said welt is subjected in the shoe.

Referring to the accompanying drawings,—Figure 1 illustrates in cross section the fore-part of the shoe containing my improved combination welt. Fig. 2 represents the welt strip, in a portion of which the folds of the strip are opened to illustrate the cord or string therein.

Referring to the drawings, A indicates the insole, and B the upper, having a lining *b*.

C indicates the usual welt, E indicates the outer sole, and D indicates my improved welt.

F indicates a cork sole which intervenes between the inner sole and the outer sole, and which is preferably strengthened by a sheet of fabric indicated at G. As illustrated, the edges of the cork sole are skived so as to extend out under the edges of the upper and under the inner portion of the welt C.

The combination welt D, as illustrated in Fig. 2, consists of an elongated strip of rubber, one face of which is frictioned as

shown; that is to say, the face of the strip is provided with a layer of a suitable thin fabric which firmly adheres to the rubber, the face of the fabric being provided with a layer of material which is more or less tacky, so that, when the strip is folded along a longitudinal line as illustrated, the two folds *d d* will be caused to firmly adhere. Between the folds of the strip and at one edge thereof is an inelastic string, cord or tape *d'* which has the effect of thickening the welt strip along said edge so as to cause it to snugly occupy the space between the welt C and the upper B. By thus forming the combination welt as described, with a layer or sheet of fabric on the inner surface of the folds of the strip, the strip is greatly strengthened so that it will not tear away from the stitches which unite the upper and the inner sole, the stitches will not have a tendency to cut the welt when the latter is subjected to varying strains in the use of the shoe upon the foot of the wearer, and the cord is confined and cemented in place so that the strip may be sold and shipped as a unitary article of manufacture.

Having thus explained the nature of my said invention and described a way of constructing and using the same, although without attempting to set forth all of the forms in which it may be made or all of the modes of its use, what I claim is:

As a new article of manufacture, a welt of indeterminate length, consisting of an elongated narrow strip composed of an outer layer of rubber, an intermediate layer of fabric and an inner layer of tacky adhesive material, said strip being folded along a longitudinal line to bring the adhesive layers so as to adhere to each other, and a non-elastic cord placed between the said folds at the folded edge and confined by the adherence of the tacky adhesive layer.

In testimony whereof I have affixed my signature, in presence of two witnesses.

JAMES N. MOULTON.

Witnesses:

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