

C. M. JAGGERS.
ELASTIC HEEL FOR BOOTS OR SHOES.
APPLICATION FILED JULY 20, 1908.

944,558.

Patented Dec. 28, 1909.

Fig. 1.

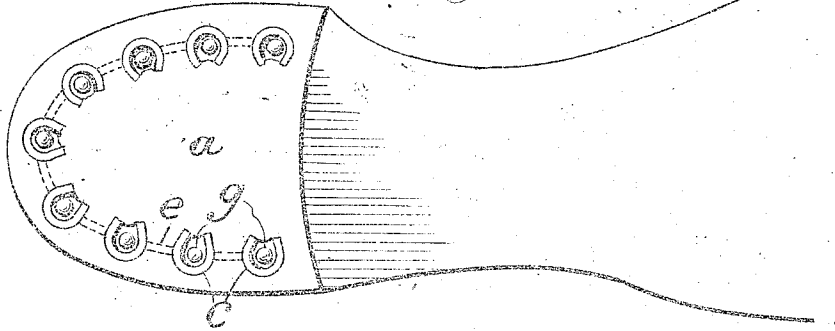


Fig 2

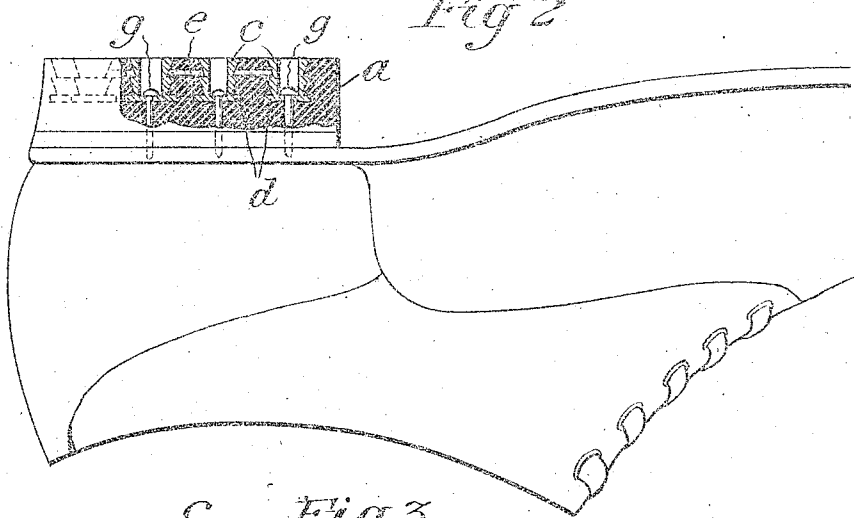
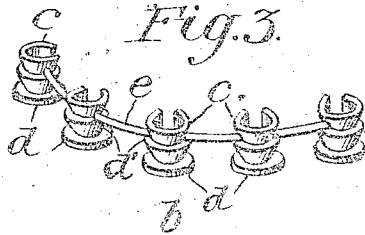


Fig. 3.



Witnesses:
W. E. Allen
J. H. Smith.

Inventor.
Charles M. Jagers,
by J. H. Smith & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES M. JAGGERS, OF McALESTER, OKLAHOMA.

ELASTIC HEEL FOR BOOTS OR SHOES.

4944,558.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES M. JAGGERS, a citizen of the United States, and resident of McAlester, Oklahoma, have invented certain new and useful Improvements in Elastic Heels for Boots or 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.

The invention relates to elastic heels or treads essentially for boots, shoes and the like, and has for its object to provide a tread of rubber or similar elastic material provided with wear pieces embedded therein; the outer ends of which lie substantially in the plane of the tread surface, the several wear pieces being positively connected in series by links or bars, which are preferably formed integrally with the wear pieces, so that when the connected series of wear pieces are embedded in the elastic body of the heel they will not only serve to increase the life and durability of the heel, but will prevent the latter wearing unevenly and becoming distorted or deformed, and will moreover afford efficient means for attachment of the tread to the heel of the shoe. Furthermore, the positive connections between the several wear pieces will prevent any of the wear pieces becoming loose and dropping out, which is a serious objection in the old forms of wear pieces and reinforcing washers employed in elastic heel treads.

In the accompanying drawings, Figure 1 is a plan view of the rear portion of a shoe having an elastic tread involving the invention, applied thereto, Fig. 2 is a side elevation, partly in section, of the same, Fig. 3 is a perspective view of a connected series of wear pieces.

Referring to the drawings, *a* indicates the elastic body portion of the heel tread, which is conveniently formed of rubber or similar resilient material.

Embedded within the body portion *a* during the operation of molding or otherwise forming the tread is a connected series of wear pieces *b* comprising generally tubular members *c* open at one side to give the same the general shape of a horse shoe in cross section, the outer end of which lies substantially in the plane of the tread surface, said tubular members having on their inner ends integral laterally extending base flanges *d*

which are centrally perforated and adapted to receive the nails, screws, or similar fastenings *g*, by means of which the tread is secured to the shoe heel. Between the tubular members there is interposed a single connection, preferably in the form of relatively light bars *e*, the several members *e* serving to hold the several wear pieces together in a connected series, as more particularly illustrated in Fig. 3. The members *e* are connected with the wear pieces intermediate of the height of the latter, just above a circumferential shoulder *d*¹ with which each wear piece is provided, as shown in Fig. 3. The wear pieces and their connecting bars may be made in continuous lengths by casting, molding, drop-forging, or the like, or in the alternative, the wear pieces may be formed separately and the connecting members subsequently secured thereto.

In applying the wear pieces to the elastic body portion, a proper length of the connected tubular members is cut and bent to the proper shape to lie within the finished tread, after which the same is applied to the bottom of the mold and the rubber or other elastic material is poured in to form the tread, which is subsequently vulcanized and otherwise treated as will be apparent to those skilled in the art. When the tread is completed, the wear pieces will occupy the relation shown in Figs. 1 and 2, extending throughout the side and back edges of the heel with their outer ends lying substantially in the plane of the tread surface, and their inner or washer ends embedded within the elastic body *a* at a point about midway the thickness thereof. The connecting bars *e* are likewise embedded in and surrounded by the elastic material of the body portion and serve to materially stiffen the body portion of the elastic tread against lateral deformation, and also effectively prevent any one of the individual tubular members working loose or becoming displaced from its position in the tread. The interior of each tubular member is clear and admits of a nail, screw, or the like, *g*, being passed through the opening in the washer-like end *d* of the wear piece to secure the tread to the heel of the shoe, as clearly shown in Figs. 1 and 2.

What I claim is:—

A tread for heels and the like, comprising a series of wear pieces, each consisting of a tubular member provided with a laterally-

extending base-flange, an upper portion open at the side, and an exterior shoulder intermediate of the height of such member, and a single connection between said wear pieces
5 consisting of light bars connecting them into a unitary structure, said bars being secured to the side walls of the respective tubular members intermediate of the height of the latter, the interior of each of said members

being free for the passage of a nail through the base flange thereof.

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

CHARLES M. JAGGERS.

Witnesses:

CHAS. J. O'NEIL,

LEIGHTON E. WORTHLEY.