

U. A. BAUMANN.
ELASTIC METAL SOLE.
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1,013,727.

Patented Jan. 2, 1912.

Fig. 1.

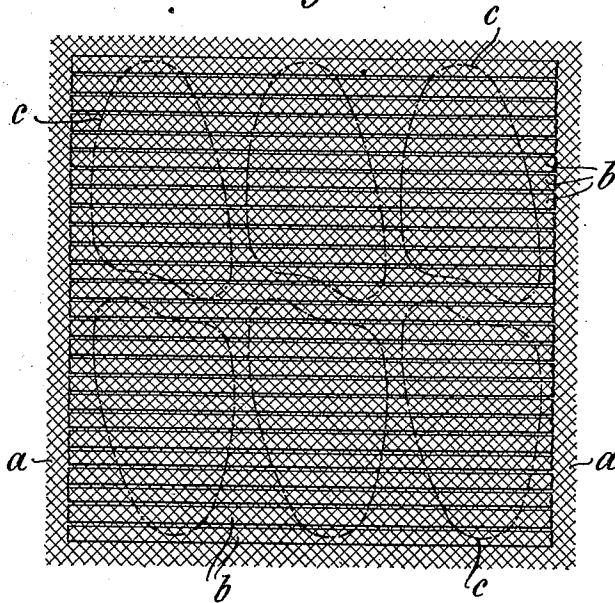
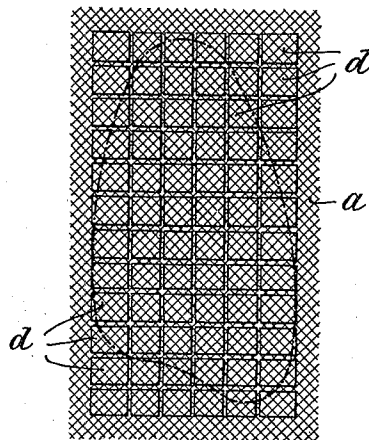


Fig. 2.



Witnesses.

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ELASTIC METAL SOLE.

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Specification of Letters Patent.

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Application filed June 28, 1911. Serial No. 635,837.

To all whom it may concern:

Be it known that I, ULRICH ADANK BAUMANN, a citizen of the Swiss Confederation, residing at Lucerne, Switzerland, have invented certain new and useful Improvements in Elastic Metal Soles, of which the following is a specification.

The elastic metal soles of known construction have the disadvantage that they impede considerably the elasticity of the boots. In order to avoid this inconvenience the metal sole according to the present invention is made of metal plates which are connected with each other by means of a wire gauze.

In the accompanying drawing the invention is shown in two forms of construction.

Figure 1 is a top view of a plate for elastic metal soles composed of a number of metal rods which are connected by a wire netting. Fig. 2 is a top view of a plate for elastic metal soles composed of a number of small metal plates which are connected by a wire netting.

According to Fig. 1 metal rods *b* are fixed upon a wire netting *a* which is preferably made of steel wire. The soles *c* are stamped out of the plate thus formed along the outlines indicated in Fig. 1 by dotted lines.

According to Fig. 2 the sole is composed of a certain number of small metal plates *d* which are connected by a wire netting *a* or the like.

The rods *b* and the plates *d* can be made of any suitable material but they are preferably made of aluminium in consideration of the light weight and of the other advantages of this metal. The metal rods or plates are fixed upon the wire netting by pressing, if soft metal is used, or by soldering or in any other suitable manner. A simple manner for fixing the metal rods or plates upon the wire netting consists in mounting pins at the side of the rods or plates which has to come in contact with the wire gauze. When the rods or plates and the wire gauze are submitted to pressure the pins become flat so that the rods and plates are so to say riveted to the wire gauze. The distance between the adjacent metal rods or plates is only very small.

The edges of the soles *c* have to be finished after the soles have been stamped out or cut out. The soles are fixed to the boots by means of nails or screws.

I claim:—

An elastic metal sole consisting of separate small metal plates and of a wire gauze to which said metal plates are fixed in a convenient manner.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

ULRICH ADANK BAUMANN.

Witnesses:

C. FINE,

JOSEF SONNANI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."