

E. OSGOOD.
 COMPOUND TO BE APPLIED TO SHOES AND OTHER ARTICLES.
 No. 90,118. Patented May 18, 1869.

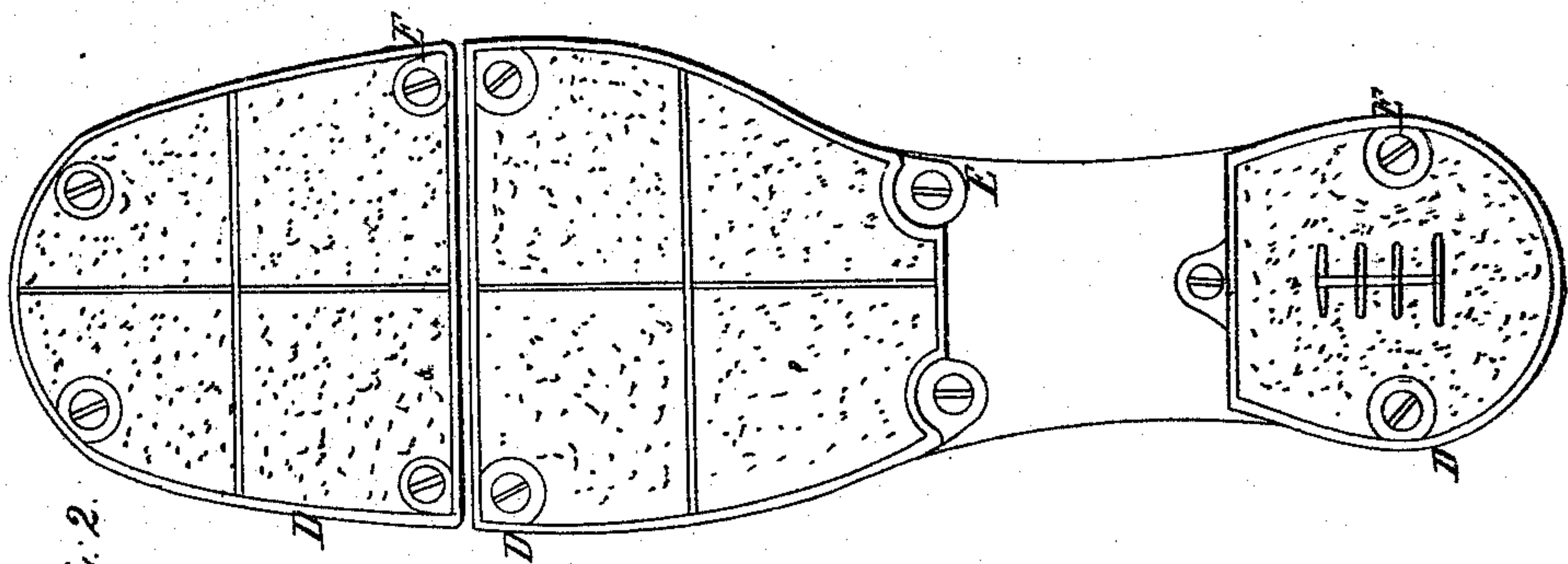


Fig. 2.

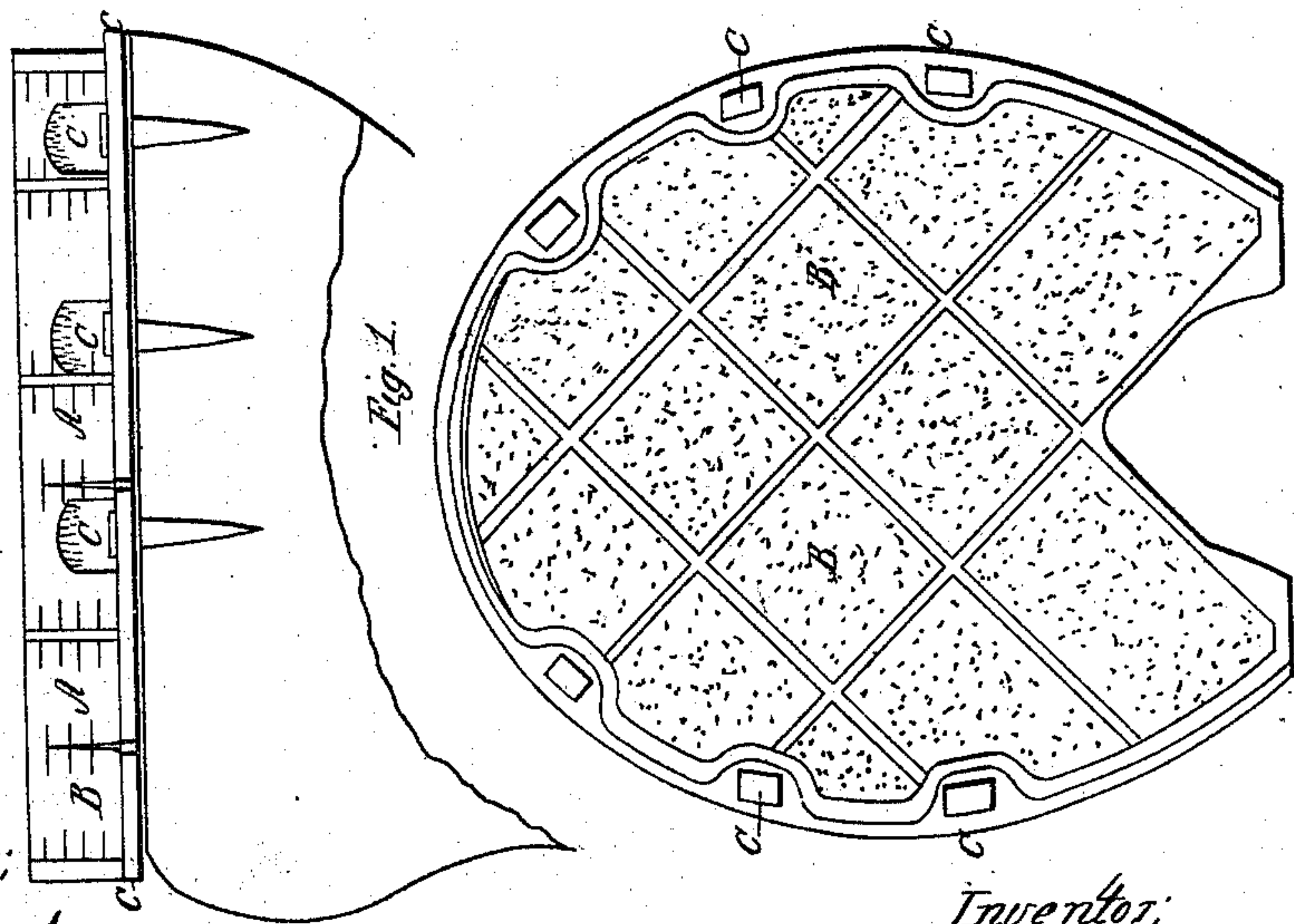
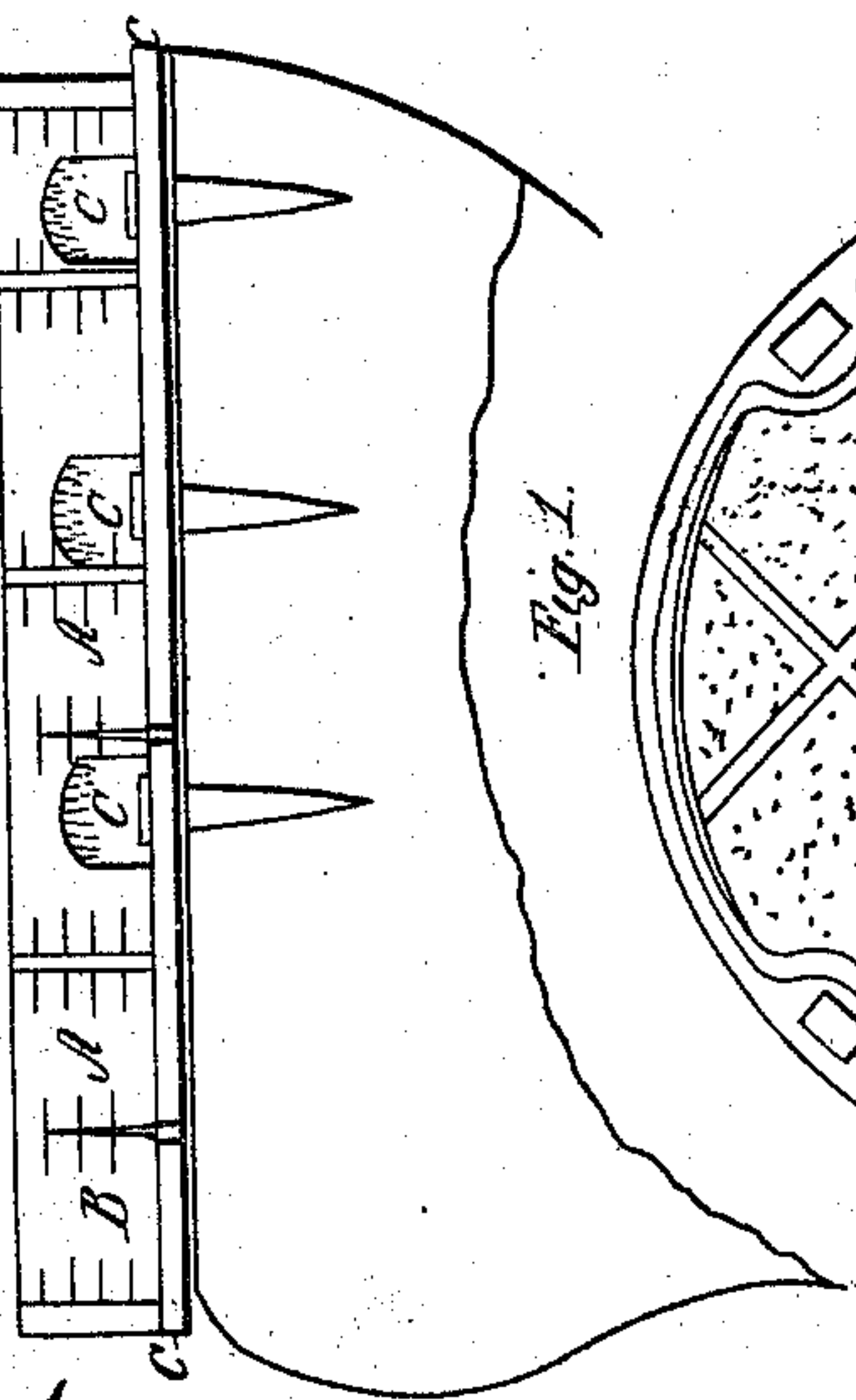


Fig. 1.

Fig. 3.



Witnesses:
 Geo L Howard
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ENOCH OSGOOD, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 90,118, dated May 18, 1869.

IMPROVED COMPOUND TO BE APPLIED TO SHOES AND OTHER ARTICLES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ENOCH OSGOOD, of the city of Boston, county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in a Shoe for Horses and other animals, and for the soles, or to be applied to the soles and heels of boots and shoes for ladies' and gents' wear, to prevent them from slipping on ice and smooth and wet pavements, and to make them more durable; also, for making sidewalks alternately with or without glass or roofing; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, with letters of reference marked thereon.

Figure 1 represents the bottom of the horseshoe, showing its compartments filled.

Figures 2 2, the sole and heel for boots and shoes.

Figure 3, edge view of the horseshoe, showing one thickness, and the red flanged partitions; and a rim, larger than the shoe, to be cut to fit it to the foot, with a depression for the nail-heads, with nails represented.

In describing my invention and its nature, I first have a horseshoe made of any metal desired, malleable iron being preferred, with suitable compartments cast in it, from one-fourth of an inch deep by one inch square, more or less, as desired, as shown at figs. 1 and 3.

These compartments should have small flanges, pins, or studs in them, to keep the compound in after it has been filled, leaving a rim on the outside to be reduced to fit the foot, and for nails. (See figs. 1 and 3, letters O O.)

I then take rubber that will harden hard, or semi-hard, as desired, and mix with emery, or its equivalent, either coarse or fine, and fill the compartments with the compound, and vulcanize solid in the shoe, or it may be vulcanized and cemented in, and it is ready for use, and will prevent horses and other animals from slipping on ice, wet pavements, &c.

For boots and shoes for ladies' and gents' wear, a base or metallic sole may be made of brass, or its equivalent, and in two parts, to make it easy to the foot, with compartments, as shown at fig. 2, letters D D.

These compartments can be made very thin, with suitable roughness, or other devices, to hold the compound in, (see fig 3, letters A A,) and filled with rubber and emery, or their equivalent, hard or semi-hard, and vulcanized together; or a sole and heel can be made of the same material as above named, and vulcanized hard or semi-hard without the base, and cemented or fastened to the sole of the boot or shoe by any process to keep them from slipping, and make them more durable.

In order to fasten the metallic soles or heels to boots and shoes, suitable places can be made in the metallic base for screws, as shown at figs. 2 2, letters E E.

With this boot or shoe a person can walk on ice, smooth and wet pavements, sidewalks, or any other slippery place, with perfect ease, as the foot cannot slip on the smoothest substance, making it perfectly safe for all persons at all seasons of the year.

These soles and heels can be put on with screws, thereby making them portable and safe.

For firemen, builders, slaters, and men that put up telegraph-wires, the above-named shoe is almost indispensable, as the men can walk on wet slated roofs with impunity.

Having described the making and use of my invention,

What I claim, and desire to secure by Letters Patent, is—

1. The application of rubber and emery, or their equivalent, vulcanized together hard or semi-hard, to horseshoes, or to boots and shoes for ladies' and gents' wear, either with or without a base, to prevent their slipping, substantially as and for the purpose herein set forth.

2. A horseshoe made with compartments, to be filled with a substance that will prevent horses and other animals from slipping, substantially as herein set forth.

3. The rubber and emery vulcanized compound, applied to brakes or other surfaces, so as to prevent slipping, substantially as and for the purpose herein set forth.

ENOCH OSGOOD.

Witnesses:

M. E. KELLY,
A. H. BRIGGS.