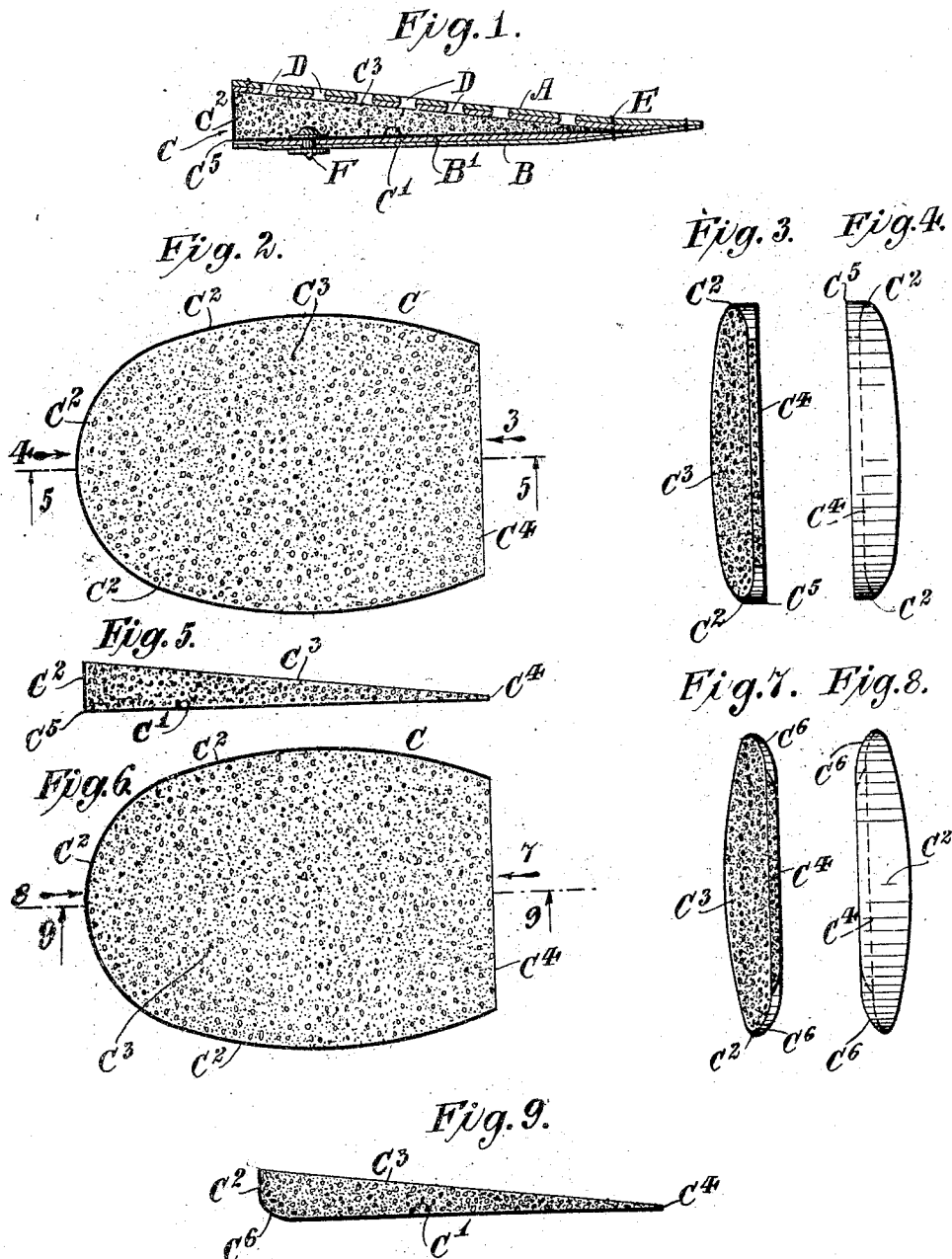


W. B. PRICE.
VENTILATING CUSHION FOR BOOTS AND THE LIKE.
APPLICATION FILED MAY 31, 1912.

Patented Mar. 25, 1913.

1,056,828.



WITNESSES
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UNITED STATES PATENT OFFICE.

WELCOME BEEBE PRICE, OF NEW YORK, N. Y., ASSIGNOR TO SPONGE RUBBER INNER
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VENTILATING-CUSHION FOR BOOTS AND THE LIKE.

1,056,328.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed May 21, 1912. Serial No. 700,696.

To all whom it may concern:

Be it known that I, WELCOME BEEBE PRICE, a citizen of the United States, and a resident of the borough of Manhattan, of the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Ventilating-Cushions for Boots and the Like, of which the following is a specification.

The invention relates to ventilating cushions having a soft or mesh sponge rubber yielding member therein.

The invention also relates to the specific construction of the yielding member which is utilized in such cushions.

The object of the invention is to provide a cushion comprising an upper member and a lower member with a yielding soft sponge rubber member therebetween, which sponge rubber member is provided with an inclosing layer or skin at the edge and one face thereof, to retard the escape of air from the member.

Another object of the invention is to construct a sponge rubber yielding member for shoe cushions with a skin of rubber upon a face and edge portion of the member.

As showing a specific embodiment of the invention reference is made to the drawing forming a part of this specification and in which—

Figure 1 is a sectional view of a D-shaped ventilating heel cushion. Fig. 2 is a plan view of the yielding member that is utilized in the cushion shown in Fig. 1. Fig. 3 is a vertical edge view, looking in the direction of the arrow 3. Fig. 4 is a vertical edge view looking in the direction of the arrow 4. Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2. Fig. 6 is a plan view of another form of yielding member that may be utilized in a ventilating cushion for shoes. Fig. 7 is a vertical edge view, looking in the direction of the arrow 7. Fig. 8 is a vertical edge view, looking in the direction of the arrow 8. Fig. 9 is a sectional view taken on the line 9—9 of Fig. 6.

The ventilating cushion shown in the drawing is a D-shaped heel cushion and comprises the flexible upper member A, a reinforced lower flexible member B and therebetween a yielding member C. The upper member is perforated at D and is secured to the lower member at E. The

lower member is reinforced with a leather strip B' and is provided with a depending holding tack F. The yielding member C is cemented or otherwise secured to the lower member B. The yielding member C is D-shaped and the body thereof is made of soft or mesh sponge rubber. In order to prevent the sudden escape of air when the cushion is compressed the lower flat surface C' and the curved edge portions C² C² are provided with a skin or coating. This skin is a thin continuous layer or film of rubber integral with the portions constituting the walls of the cells in the sponge rubber body. The upper surface C³ is not provided with a skin or coating, since it is desired that the air which is caused to escape when the cushion is compressed may pass through the perforations D in the upper member A, which is located directly over said surface. The yielding member C tapers toward the straight edge C⁴, and as this edge is very thin it is not necessary that a skin be provided thereupon. It will be observed, however, that the skin or coating is on the major part of the upright edge portions and extends from the lower face or surface C' of the yielding member to the top of the exposed edge portions thereof.

It will be noted that in the form shown in Figs. 1 to 5 the edge portions extend to and make substantially a right angle with the flat lower horizontal surface C'. In the form of yielding member illustrated in Figs. 6 to 9 the sharp edge C⁵ clearly shown in Figs. 1 to 5 is eliminated, and instead thereof a curved portion C⁶ is utilized between the lower flat face and the edge portion of the yielding member, as can readily be seen from an inspection of Figs. 7 to 9. Otherwise than this the construction of the yielding member shown in Figs. 1 to 5 and 6 to 9 is substantially the same.

It is obvious that the invention may be embodied in other than heel cushions, for instance, it may be applied to cushions for supporting the arch or other parts of the foot, and that various forms and modifications may be made without departing from the spirit and scope thereof.

I claim:

1. A yielding member for shoe cushions comprising a body of soft or mesh sponge rubber having a face without a skin or

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casing and an edge portion which is provided on the major portion thereof with a skin or casing integral with the body.

2. A yielding member for shoe cushions comprising a body of soft mesh sponge rubber with a skin or casing on one face and the major portion of the edges.

3. A yielding member for shoe cushions comprising a soft mesh sponge rubber body with upright edges, said body being provided with a skin of rubber integral therewith on one face and the major portion of said upright edges.

4. A yielding member for shoe cushions having a soft mesh sponge rubber body with upright edge portions and a flat face, said body being provided with a skin of rubber integral therewith on the flat face and the major portion of said upright edge portions, the covered edge portions extending to and at substantially right angles with the flat covered face.

5. A ventilating cushion for shoes and the like having a soft sponge rubber D-shaped yielding member which is provided with a rubber skin on the curved edge portion of the D-shaped member.

6. A ventilating cushion for shoes, said cushion having an upper member, a lower member, and therebetween a soft sponge rubber yielding member having outer upright edge portions which are provided with a rubber skin integral with the yielding member.

7. A D-shaped ventilating cushion for shoes having a flexible member and a D-shaped sponge rubber yielding member connected thereto, one of the faces and the curved edge portion of the yielding member being provided with a skin or coating integral with the body of the yielding member.

8. A ventilating cushion of the class described comprising a flexible bottom member to which is cemented a soft sponge rubber yielding member, said yielding member having outer upright portions and provided with a skin of rubber on the bottom and outer upright portions, there being no skin on the top portion whereby the rubber cells are exposed.

9. A ventilating cushion of the class described comprising a perforated top member and a sponge rubber yielding member located thereunder, said yielding member having a skin of rubber on the outer exposed edge portions thereof, there being no skin on the top portion whereby the rubber cells are exposed, thus permitting the flow of air from the yielding member through the perforations when the yielding member is compressed.

This specification signed and witnessed this 29th day of May, A. D. 1912.

WELCOME BEEBE PRICE.

Signed in the presence of—

G. McGRANN,
EDWIN A. PACKARD.