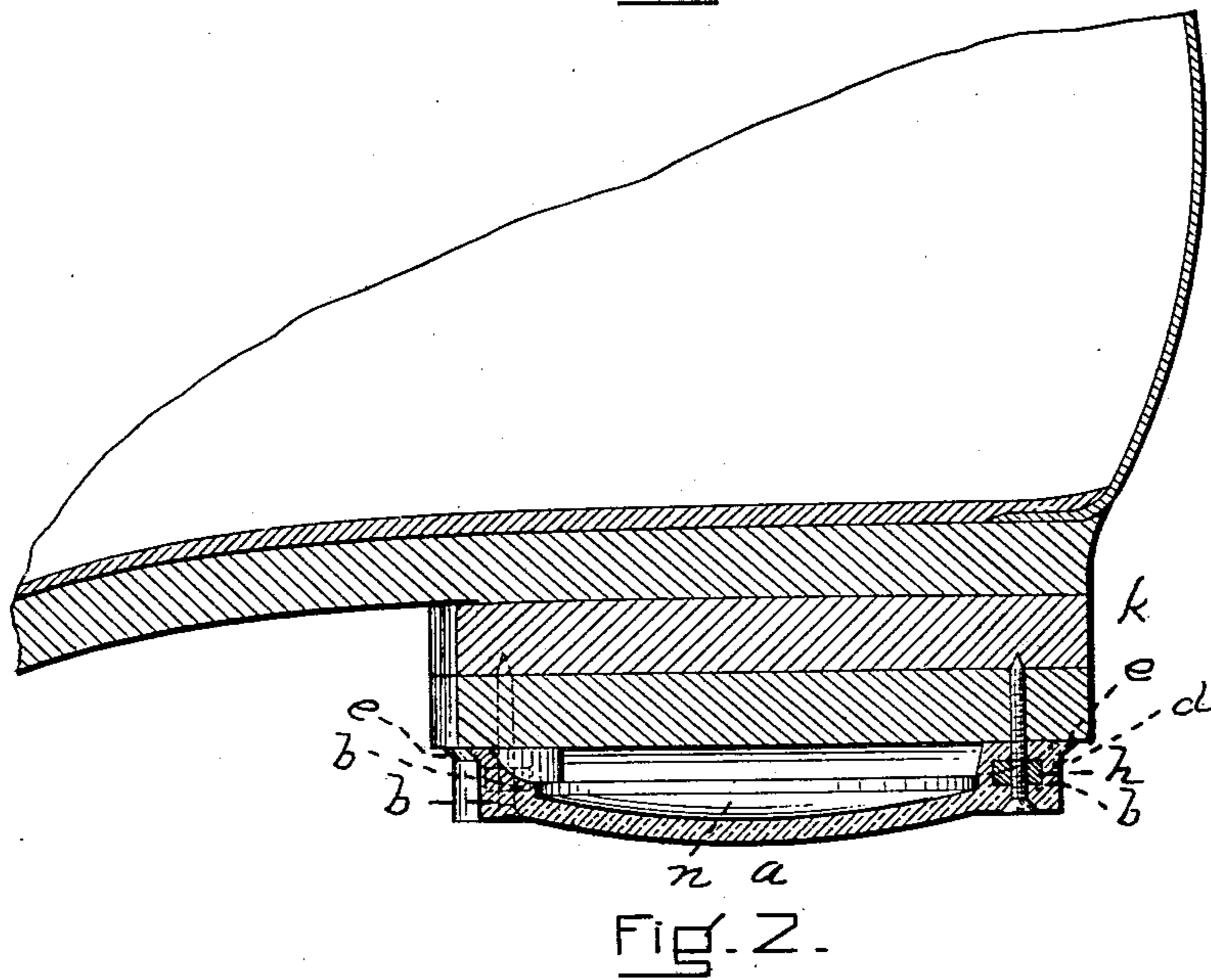
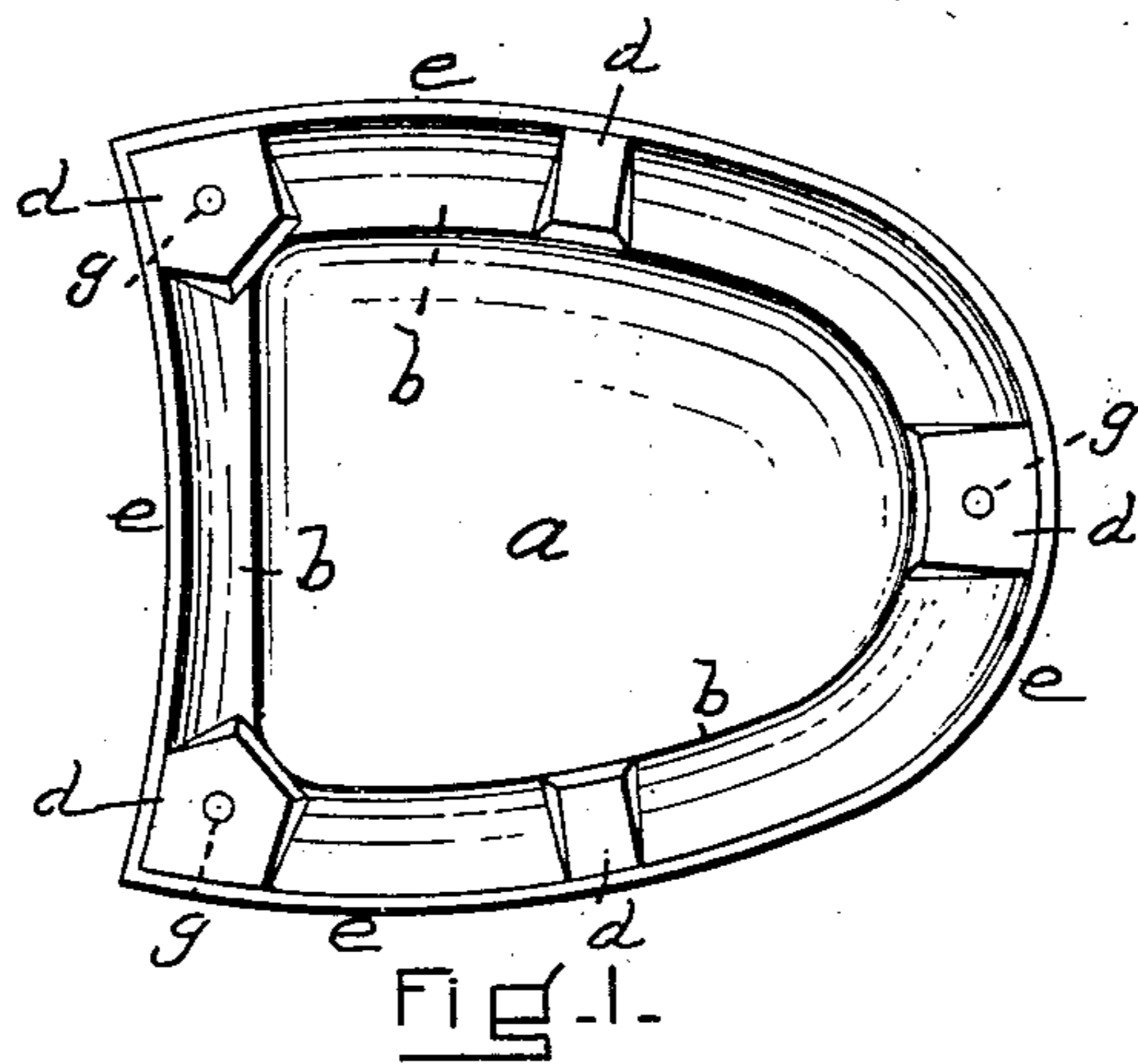


No. 745,793.

PATENTED DEC. 1, 1903.

W. C. CORMAN.
ELASTIC PAD FOR HEELS.
APPLICATION FILED JULY 16, 1902.

NO MODEL.



WITNESSES:
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UNITED STATES PATENT OFFICE.

WILLIAM C. CORMAN, OF ROCHESTER, NEW HAMPSHIRE.

ELASTIC PAD FOR HEELS.

SPECIFICATION forming part of Letters Patent No. 745,793, dated December 1, 1903.

Application filed July 16, 1902. Serial No. 115,793. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. CORMAN, a citizen of the United States, residing at Rochester, in the county of Strafford and State of New Hampshire, have invented new and useful Improvements in Elastic Pads for Heels, of which the following is a full, clear, and exact specification.

This invention relates to rubber pads adapted to be secured by screws or nails to the under side or bearing-surface of the heels of boots or shoes either by the consumer (wearer) or by a shoemaker.

The invention relates particularly to that class of elastic rubber heel-pads which may be termed "pneumatic" pads—that is to say, pads formed with a recess or chamber containing air, thereby supplementing the elasticity of the rubber with an air-cushion.

The nature of the invention is fully described below, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the inner or upper side of my improved elastic heel-pad. Fig. 2 is a central vertical section of the same attached to a heel, the heel and a portion of the shoe being also shown in section.

Similar letters of reference indicate corresponding parts.

The pad is formed of an integral piece of rubber of suitable softness and elasticity. It is made somewhat smaller in area than the surface of the heel to which it is to be applied, and it comprises the central downwardly or outwardly projecting and comparatively thin concavo-convex portion *a*, corresponding substantially in shape to the periphery of the pad; a ledge or step *b* somewhat higher than the portion *a* and surrounding said portion, said ledge being preferably concave in cross-section; blocks or supports *d*, extending up from said ledge, having flat tops, and being of even height, and a comparatively thin peripheral lip or flange *e*, which extends normally upward and in line with the edge of the pad. Suitable holes *g* are provided, through which screws or nails may be driven for the purpose of attaching the pad to the heel, and as screws are preferable I provide nuts *h* at the screw-holes during the process of vulcanization, the use of such nuts being not new, however, in this invention.

When the pad is applied to the heel, as shown in Fig. 2, and is screwed tightly into position, the flange or rim *e* is flattened outward against the under side of the heel *k* and the heel rests upon the blocks *d*. Thus not only is a firm support provided for the heel, but the flattened lip or flange makes a tight joint, so as to provide an efficient air-cushion in the chamber *n* between the portion *a* and the heel. As the wearer walks the downwardly-protruding concavo-convex portion *a* is pressed up and the air-cushion thus brought into use. By this means the wearer is provided with an elastic heel-pad in which the elasticity of rubber and air are both utilized and which can readily be applied or removed without necessarily employing the services of a shoemaker. Moreover, the pad may be applied to any heel that is sufficiently greater in area than the pad to allow the flange *e* to be pressed and spread outward without extending beyond the edge of the heel.

The width of the flange or lip may be somewhat varied, but should always be sufficient to provide a frictional surface which will adequately furnish an air-tight joint.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A rubber pad for the heels of boots and shoes comprising a central concavo-convex portion provided with an upwardly-extending ledge surrounding the concave portion, a flange surrounding the ledge, the ledge also having a convex lower surface and a concave upper surface, and blocks formed integral with the flange and concave surface, having flat upper surfaces, said blocks being arranged at the opposite corners of the concaved portion of the pad and at the central rear portion and also at the side portions thereof, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. CORMAN.

Witnesses:

WILLIAM DELANEY,
JOHN M. HANSAN.