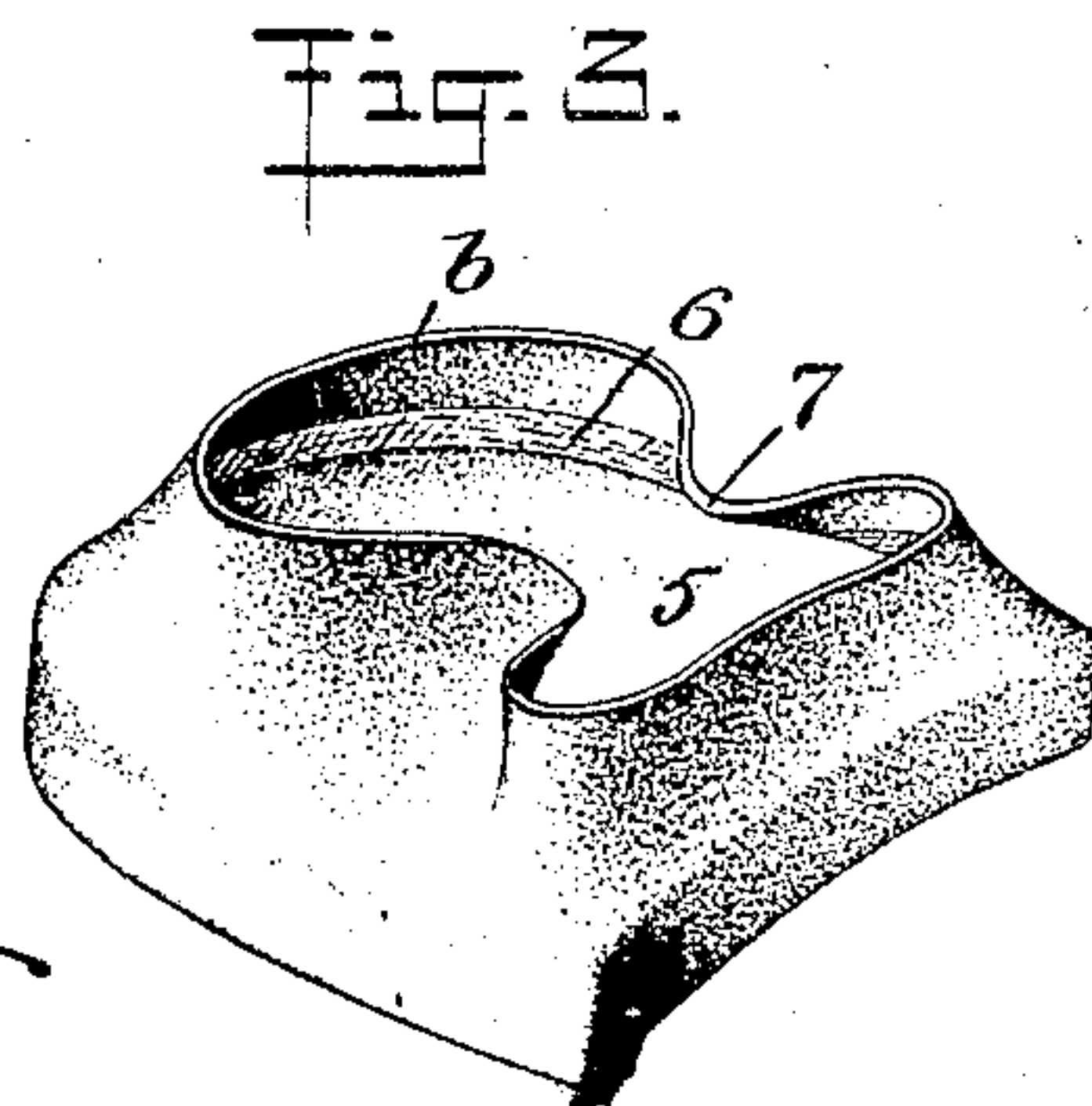
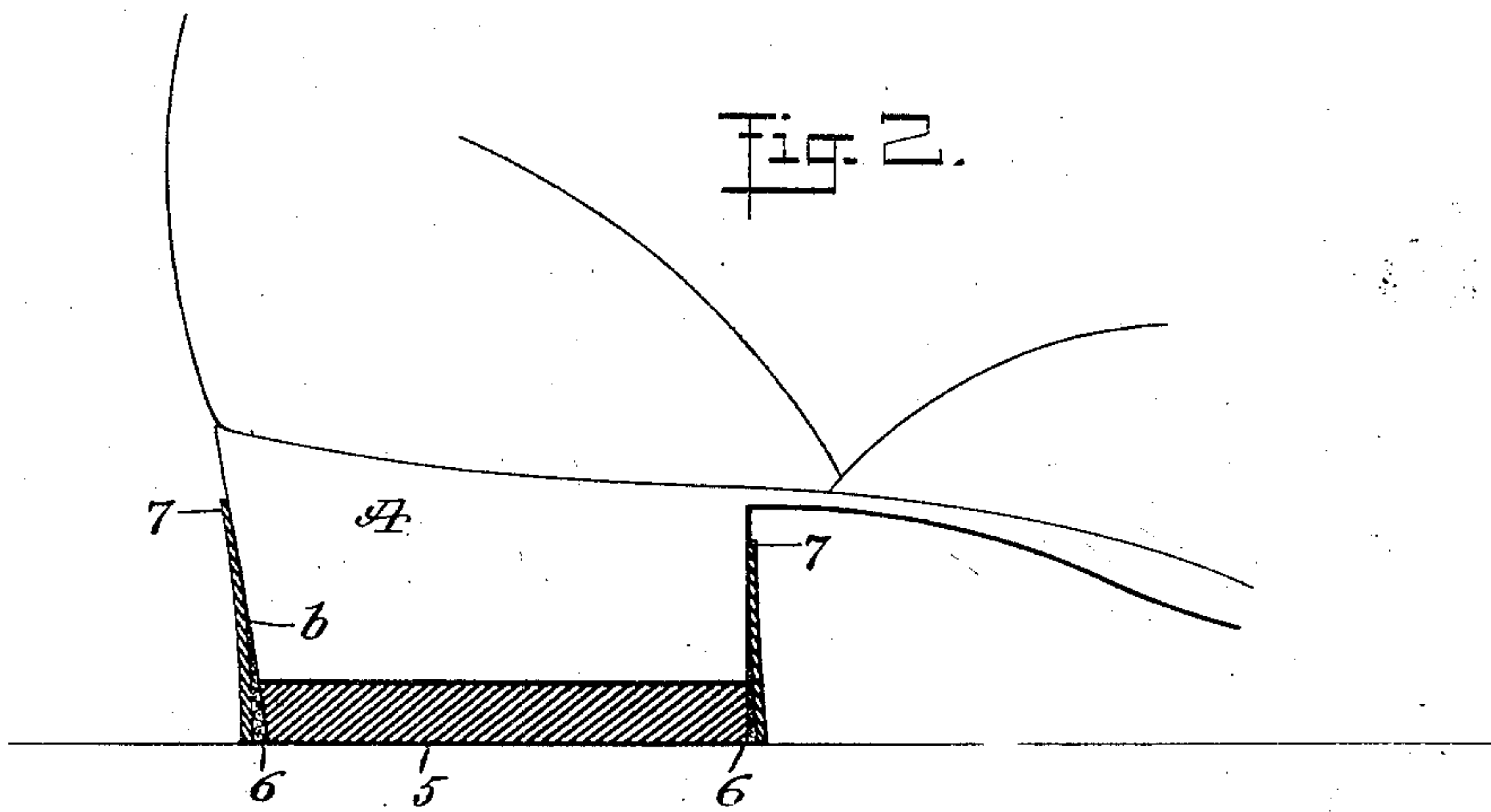
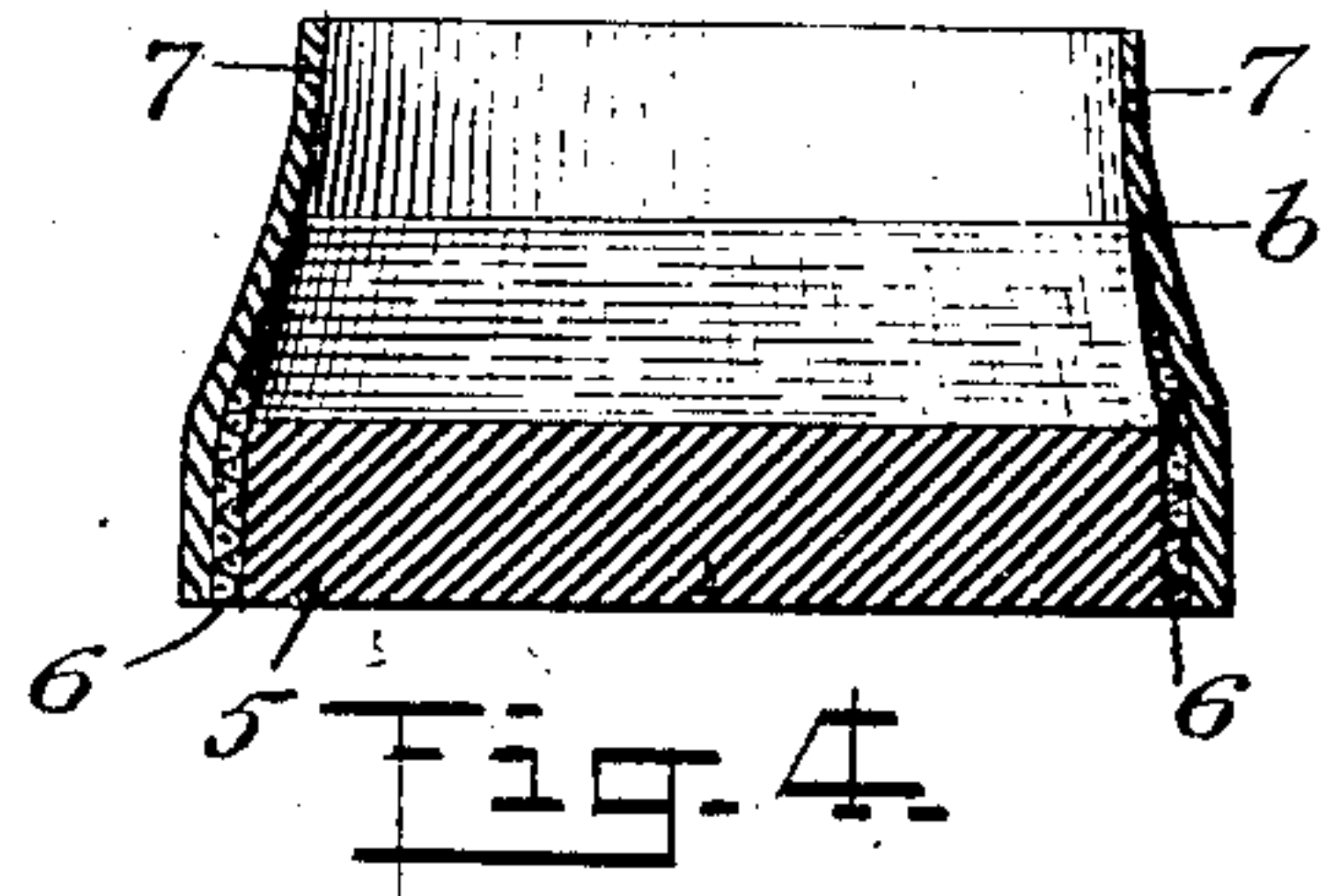
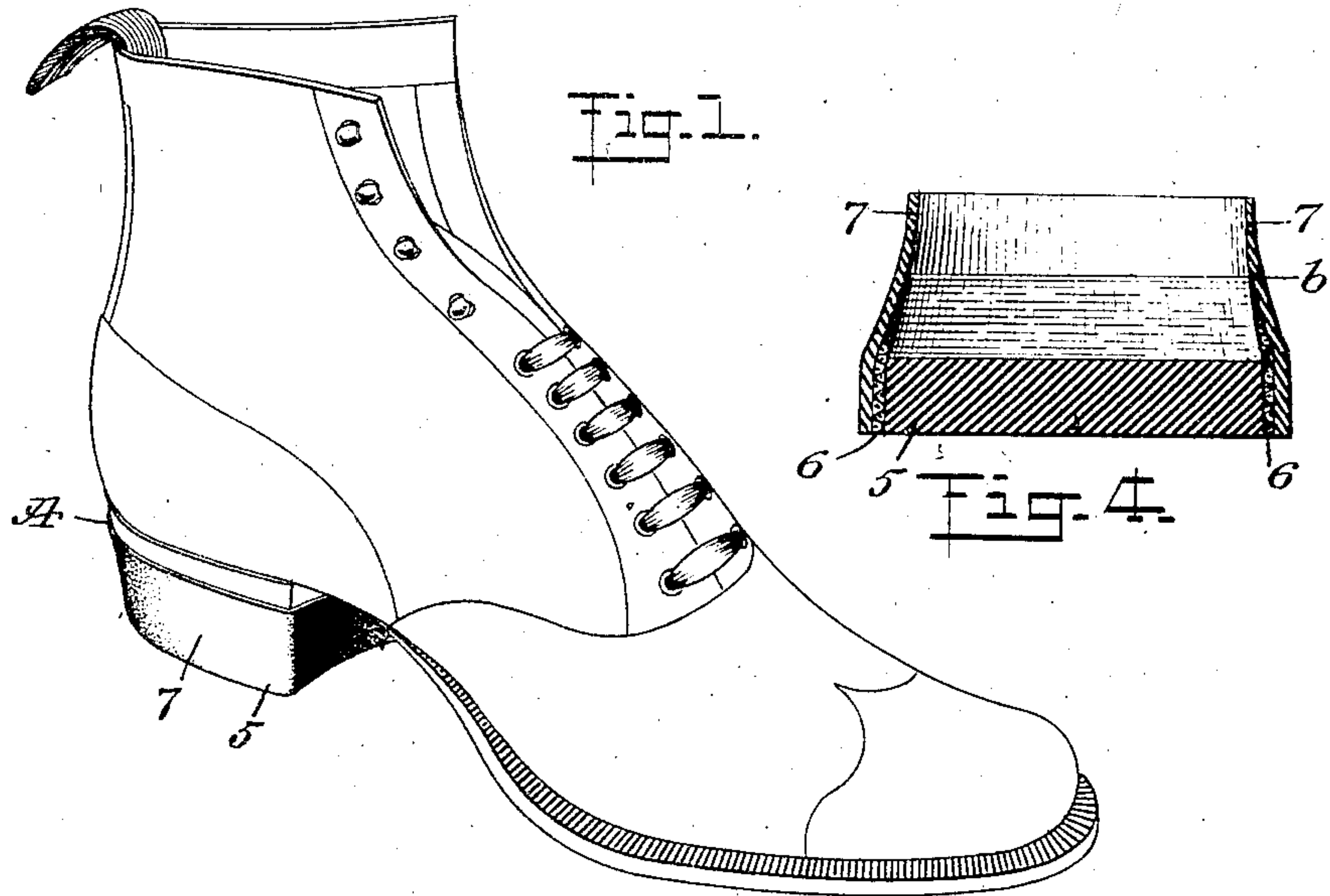


J. H. DEMPSEY.
 REMOVABLE RUBBER HEEL.
 APPLICATION FILED JULY 22, 1908.

914,810.

Patented Mar. 9, 1909.



WITNESSES

Wm. L. Patton

INVENTOR

John H. Dempsey

BY

Attorneys

UNITED STATES PATENT OFFICE

JOHN H. DEMPSEY, OF CLEVELAND, OHIO.

REMOVABLE RUBBER HEEL.

No. 914,810.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed July 22, 1908. Serial No. 444,742.

To all whom it may concern:

Be it known that I, JOHN H. DEMPSEY, a citizen of the United States, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Removable Rubber Heel, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide novel details of construction for a rubber heel, which permit the easy attachment thereof to the heel of a shoe, and a removal of the rubber heel when desired, the improved features adapting the heel when mounted for service, to resist strain and prevent its accidental removal if struck against an obstacle.

The invention consists in the novel construction and combination of parts, as is hereinafter described and defined in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a shoe and of the improved rubber heel placed on the heel of the shoe; Fig. 2 is a fragmentary side view of the heel and shank of a shoe, and a sectional side view of the improvement mounted upon the shoe heel; Fig. 3 is a detached perspective view of the improved rubber heel; and Fig. 4 is a transverse sectional view of the improvement showing novel details thereof.

The improved rubber heel is designed to be worn on all footwear having heels of sufficient height to receive it, the size of the attachable heel being proportioned to that of the shoe or boot it is to incase.

Heretofore, rubber heels have been defective in that they are either difficult to place on a shoe heel, or liable to be accidentally displaced if struck against a step, curb or other projection on the roadway.

To obviate the imperfections mentioned, the present improvement has been devised and consists essentially of the following constructive details.

The base piece 5 of the improved heel is formed of rubber of sufficient firmness to confer durability in service, and having elastic or yielding properties sufficient to minimize concussion or jar when the weight of the body in walking is thrown on the

rubber heel. The holding of the base piece 5 to the leather shoe is accomplished by virtue of the upper part, comprising a reinforce piece 6 and a contractible encircling flange 7, hereinafter described. By thus securing a rubber heel to a leather heel the employment of nails or plates in the base piece commonly employed for this purpose, are dispensed with. The eliminating of nails or metal in the base piece secures the fullest degree of ease and comfort derived from wearing rubber heels. The base piece 5 is of suitable thickness for effective service, and is marginally shaped to conform with the contour of the shoe heel with which it is to be engaged.

Incasing the periphery of the base piece 5, is a ring 6 of rubber or rubber and fabric material, which while not positively rigid, still has a tendency to resist lateral bending outwardly. The ring 6 tapers toward the upper edge as at *b*, and has such width as disposes a portion of the wedge-like body thereof above the upper surface of the base piece 5, as is clearly shown in Figs. 2, 3 and 4.

The contractible encircling flange 7 is mounted upon the ring 6 and projects above it a proper distance. Said flange which is continuous and thus adapted for completely encircling the heel A of a shoe, is formed of rubber that is quite elastic and thus adapted for closely embracing said heel when the improvement is mounted thereon, it being understood that it will require distention to place it upon the side wall of the shoe heel.

The inner ring 6, that for convenience is termed the reinforce piece, is united with the outer elastic ring-like flange 7 when the heel is manufactured, and is so proportioned in height from the top surface of the base piece 5, that the elastic flange 7 projects a distance above it sufficiently to permit said flange to exert the desired constriction upon the heel A of a shoe upon which it is mounted.

In service, it will be noted that when the improved rubber heel is placed upon the heel A of a shoe, the reinforce band or piece 6 will be contracted at its thin upper edge portion by the contraction of the outer band or flange 7, and the portion of the latter that projects above said reinforce piece, will have constricting engagement with the heel A of the shoe whereon the rubber heel is mounted, so that the rubber heel will by the

contraction of the endless flange 7, be secured upon the heel A. As the reinforce piece is practically rigid where it embraces the upper edge of the base piece 5 and near the upper surface thereof, it will be seen that there will be no lateral flexure of the contractible flange 7 and of the reinforce piece, so that lateral impingement of the rubber heel on an obstruction will not unseat the base piece or otherwise displace the rubber heel.

The removable heel may be made with the contractible flange 7 next to the base piece 5 and the reinforce piece 6 outside the contractible flange 7. Both the reinforce piece 6 and the contractible encircling flange 7 may be attached to the base piece 5 on the upper side at the outer edge, instead of extending down the outer side of the base piece 5 to the bottom thereof, being only a slight change in the method of manufacture but embracing distinctively all the desirable features shown and claimed for the removable heel.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A detachable rubber heel, embodying a base piece, an elastic endless flange encircling the base piece, and a reinforce piece inserted between the elastic flange and the base piece.

2. A detachable rubber heel, embodying a flat base piece of stiff rubber, having a periphery shaped like that of a shoe heel, an upwardly tapering reinforcing piece in ring form that encircles the periphery of the base piece, and an elastic endless flange encircling the reinforcing piece.

3. The herein described rubber heel, comprising a flat base piece of stiff rubber, having a periphery shaped like that of a shoe heel, an upwardly-tapering reinforce piece encircling the periphery of the base piece, and an endless ring band of elastic rubber that encircles and is secured on the reinforcing piece and projects a distance above said reinforcing piece.

4. A detachable rubber heel, consisting of a flat nearly rigid base piece shaped edge-wise like a shoe heel, a reinforcing ring-like piece that is secured on the edge of the base piece and tapers upward to a thin edge, and an endless elastic flange or band mounted upon the tapered reinforcing ring-like piece and secured thereto, said flange extending a distance above the reinforcing piece.

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

JOHN H. DEMPSEY.

Witnesses:

C. A. BEJCEK,
AGATHA FISCHER.