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U. URBANY

2,183,899

FOOTWEAR SOLE

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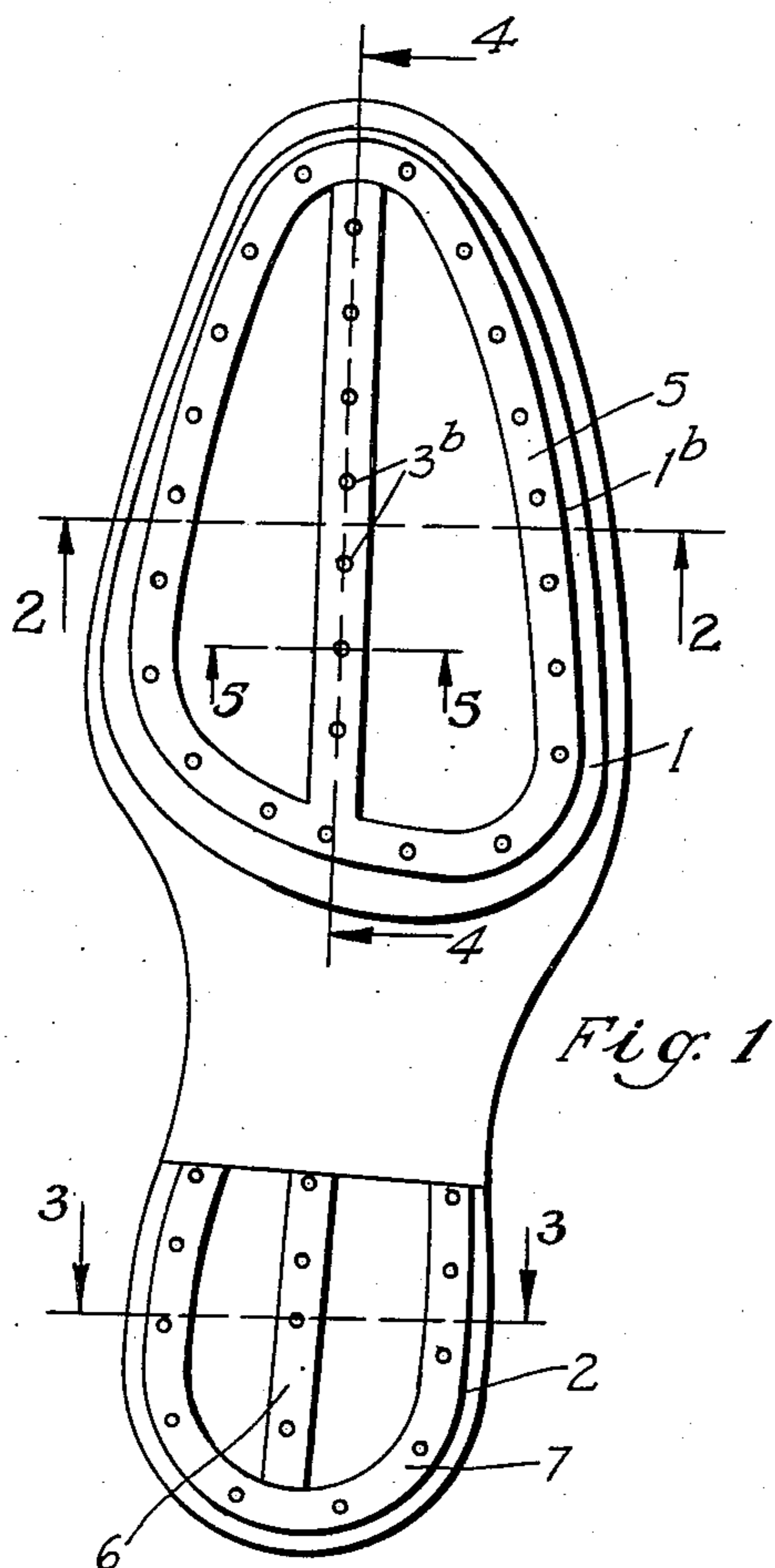


Fig. 1

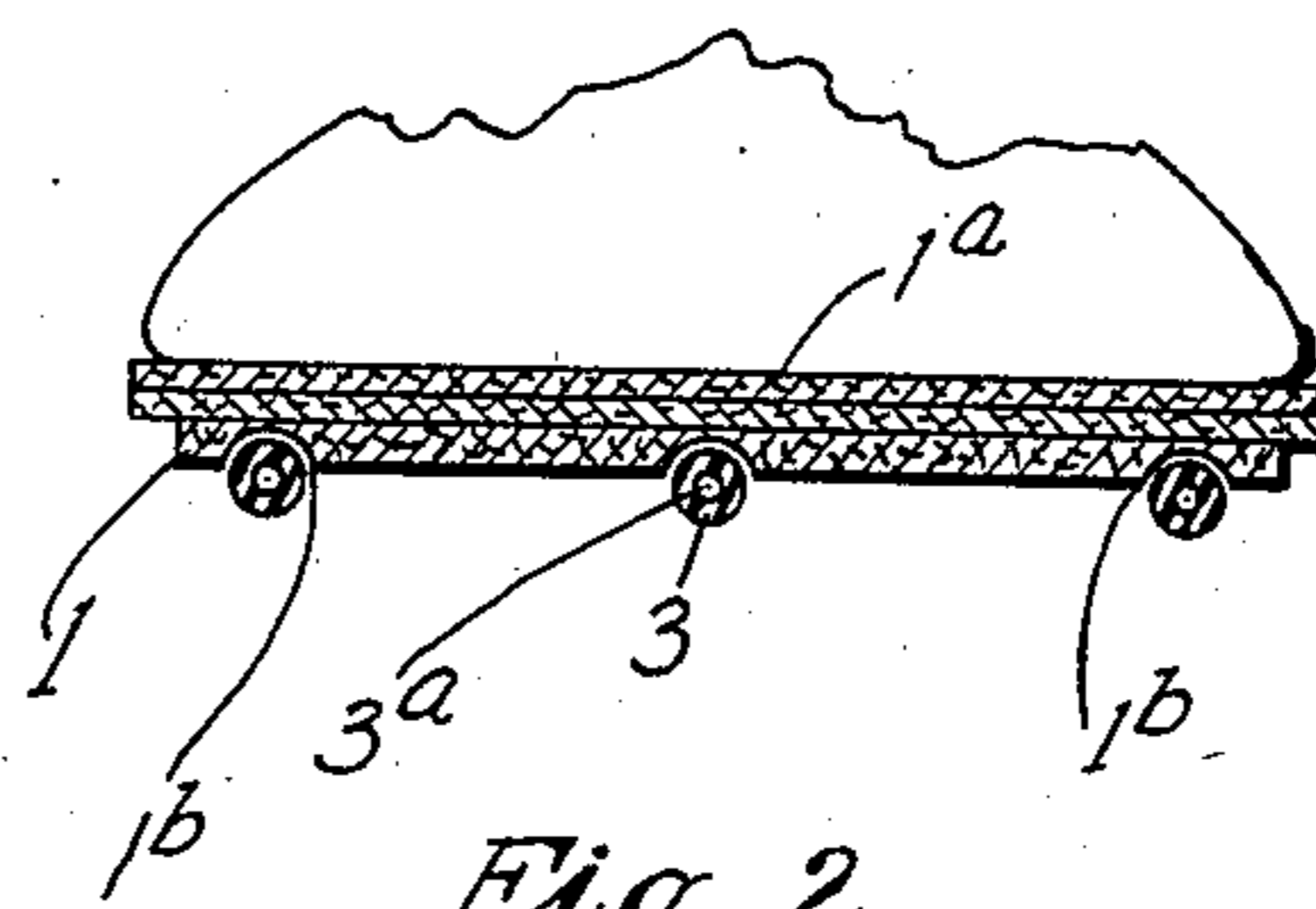


Fig. 2

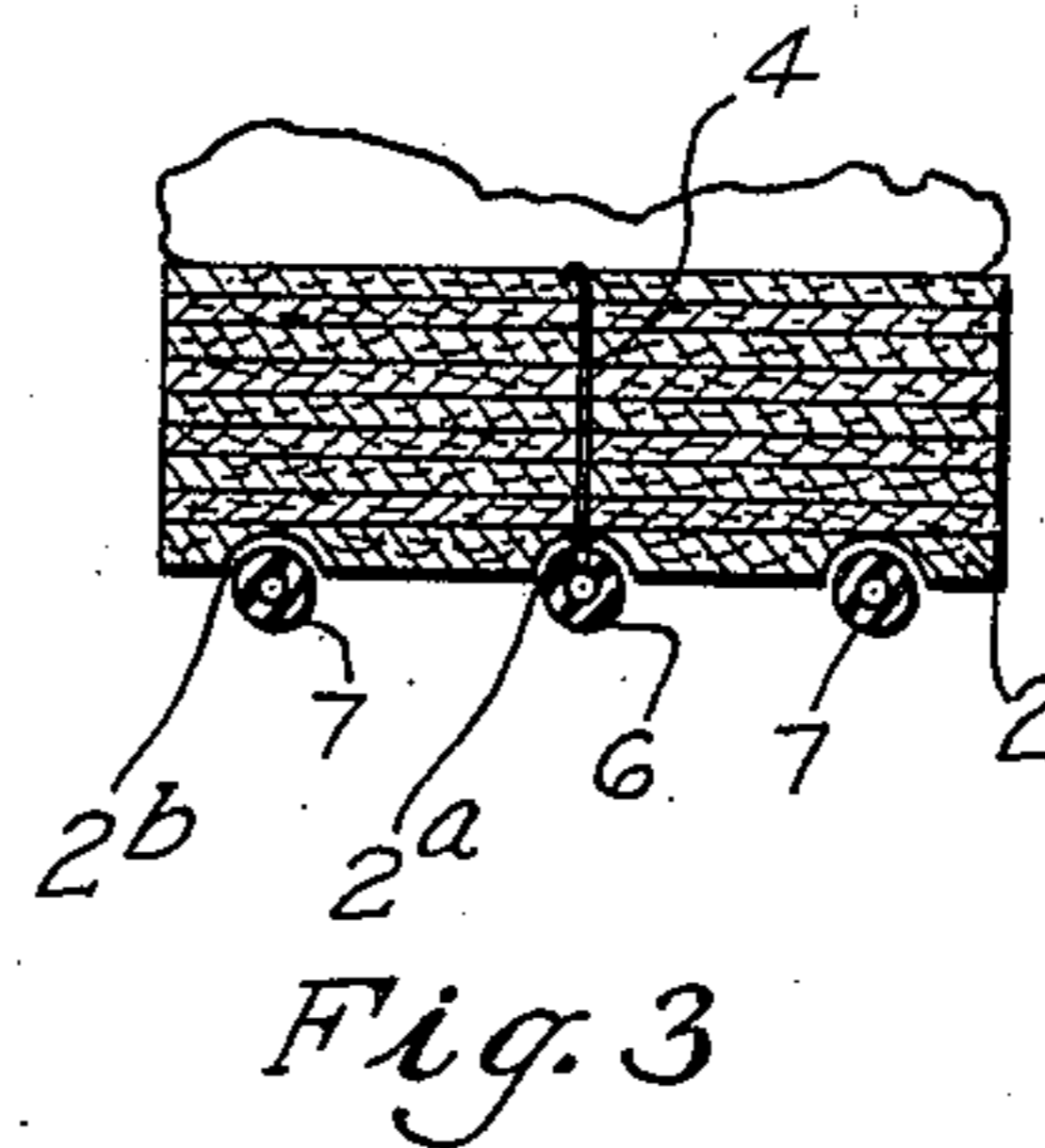


Fig. 3

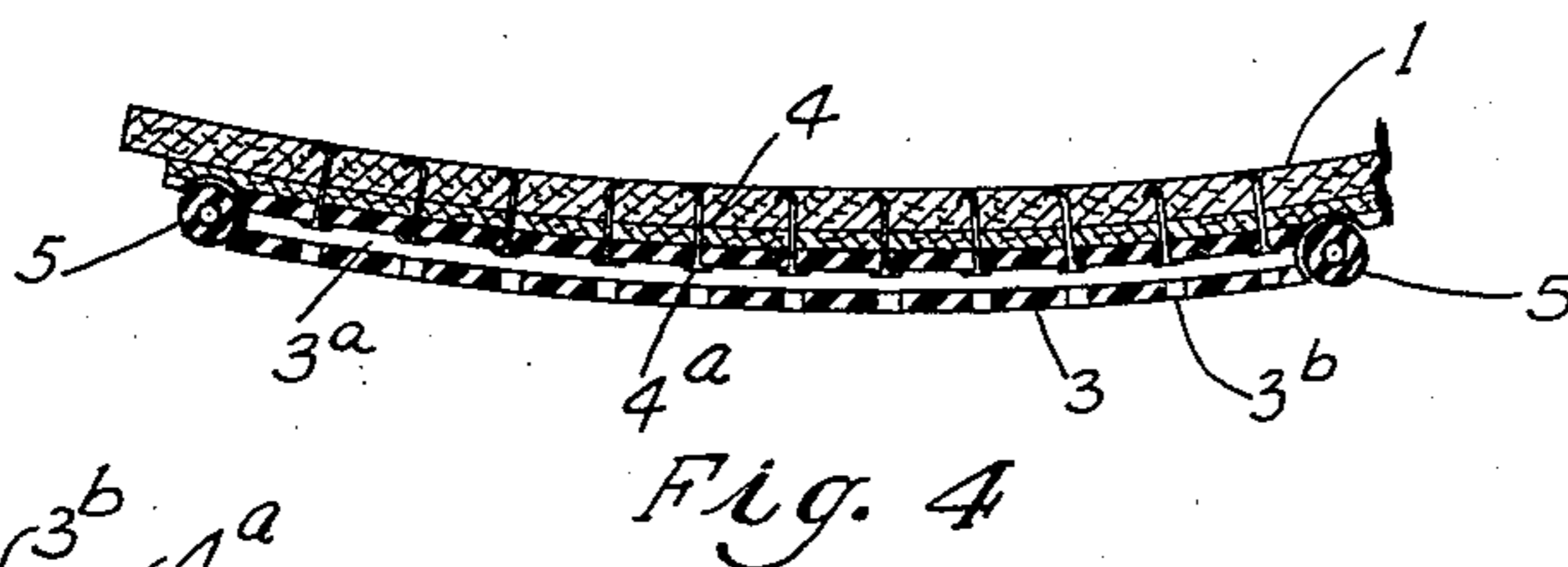


Fig. 4

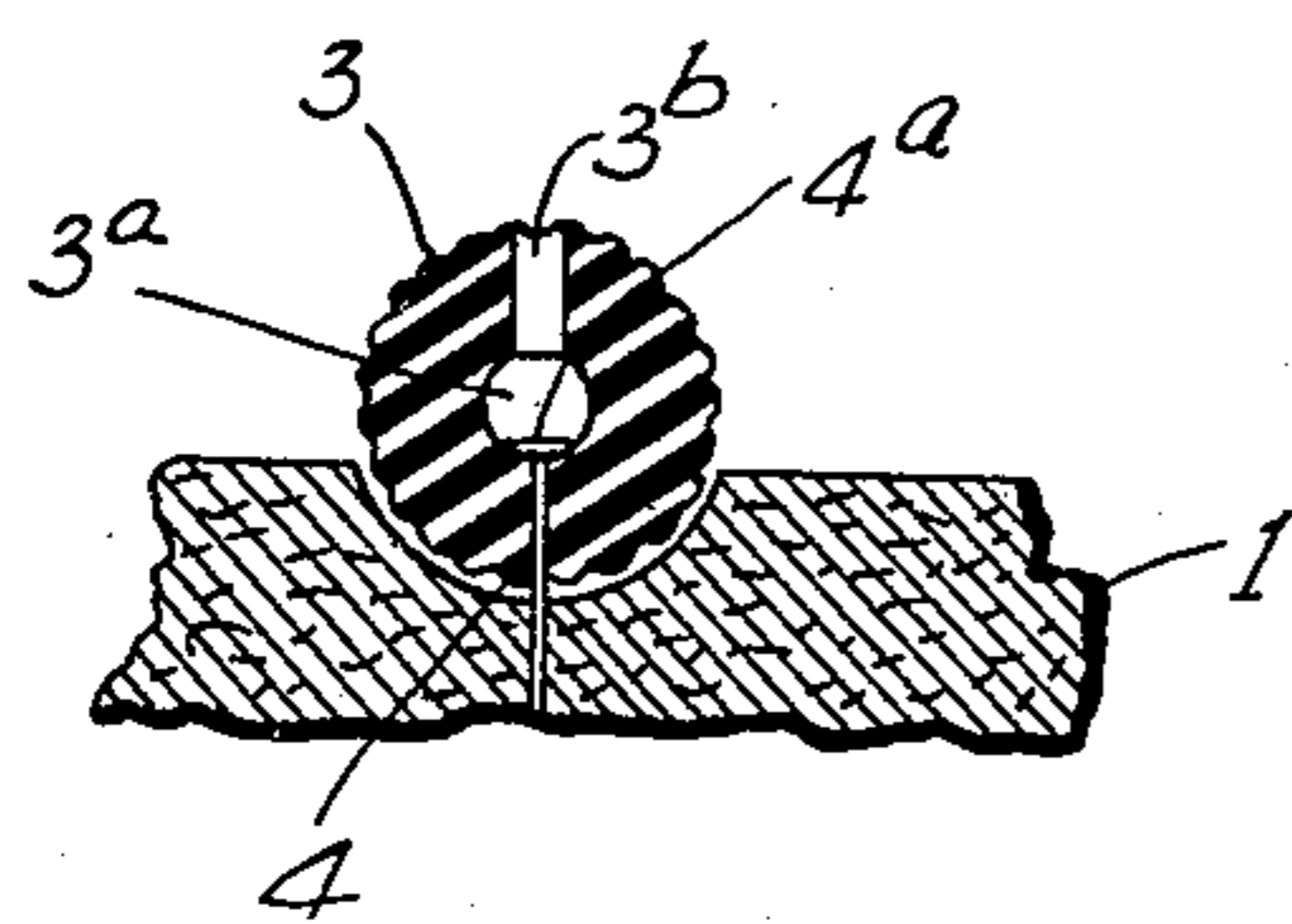


Fig. 5

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## UNITED STATES PATENT OFFICE

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## FOOTWEAR SOLE

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## 1 Claim. (Cl. 36—59)

My invention relates to a footwear sole and the objects of my invention are:

First, to provide a footwear sole that can be worn on a floor or surface that is wet without the feet becoming wet;

Second, to provide a sole for footwear of this class that will not slip on wet or slippery floors;

Third, to provide a sole of this class that has sufficient cushion so that the feet do not tire when standing on cement or like floors;

Fourth, to provide a sole of this class which is applicable in connection with both the sole and heel portion of the footwear;

Fifth, to provide a sole of this class which may be readily applied to footwear now in use if desired;

Sixth, to provide a footwear sole of this class which can be readily replaced; and

Seventh, to provide a footwear sole of this class which is very simple and economical to make, easy to place on footwear already in use, or in the new manufacture of footwear, very efficient in its action, and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination, and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claim, reference being had to the accompanying drawing and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a bottom view of a footwear sole showing my footwear sole positioned thereon ready for use including the heel portion; Fig. 2 is a transverse sectional view thereof taken from the line 2—2 of Fig. 1; Fig. 3 is a transverse sectional view taken from the line 3—3 of Fig. 1; Fig. 4 is a longitudinal sectional view of the foot portion of the sole taken from the line 4—4 of Fig. 1; and Fig. 5 is an enlarged sectional view taken from the line 5—5 of Fig. 1.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

My footwear sole includes a base member 1 which may be made of leather or relatively hard rubber of approximately  $\frac{1}{4}$  inch thick and made to fit the sole of the footwear upon which it is placed; it may be the same size or it may be slightly smaller as shown in the drawing. There is also provided a heel base portion 2 which is made of similar material and adapted to fit the heel of the shoe or may be slightly smaller if de-

sired. The base member 1 is provided with groove 1a extending longitudinally along the middle thereof shown best in Fig. 2 of the drawing and in this groove is mounted a resilient tube member 3 which has a central longitudinal hole 3a therein. It is also provided with a plurality of holes 3b extending from the outside to the hole 3a of proper size to receive nail head for securing the sole in position the nails being designated 4 shown best in Fig. 5 of the drawing and provided with heads 4a. This base member 1 is also provided with a groove 1b which extends around near the margin of the base 1 and in which is mounted another tubular member 5 which is of the same construction as the tubular member 3 preferably made of rubber, soft enough to provide a cushion on the sole and also yieldable enough to provide means for preventing slipping on a wet hard surface. It will be noted, however, that the rubber tubing is corrugated on its outer surface which provides additional traction to prevent slipping. Positioned in the heel base 2 is a central groove 2a in which is mounted the same kind of rubber tubing secured in the same manner which is designated 6 and in said member 2 is a horseshoe shaped groove 2b, near the margin of the heel base portion in which is mounted a similar tubular member designated 7. All of these tubular members are mounted in these grooves secured by the nails 4, the nail head being driven down through the openings 3b down through the longitudinal opening 3a and against the under side, the nail being driven through the material at the lower side and in through the main sole portion of the footwear where it is bent as shown best in Figs. 3 and 4 of the drawing.

It will be noted that with this construction of footwear sole there is provided a rubber tubular sole portion with open spaces therein for raising the main sole above the floor surface that the tubular portion will flatten slightly under weight and with the corrugated surfaces provide a non-slipping footwear sole, that the tubular rubber members also provide a cushion so that the feet do not tire and are kept dry even when standing or walking on surfaces that have water standing thereon.

Though I have shown and described a particular construction, combination, and arrangement of parts and portions I do not wish to be limited to this particular construction, combination, and arrangement but desire to include in the scope of my invention the construction, combination, and arrangement substantially as set forth in the appended claim.

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

In a footwear sole, a base member of relatively  
5 hard surface provided with substantially semi-circular grooves in its outer surface, hollow tubular resilient members partially embedded in said grooves and extended therefrom, said tubular

members provided with holes extending from their outer sides into the hollow portion thereof receiving nails securing said hollow tubular resilient members in said grooves, said hollow tubular members provided with corrugations extending  
5 longitudinally thereof and extending around its whole surface.

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