

No. 702,170.

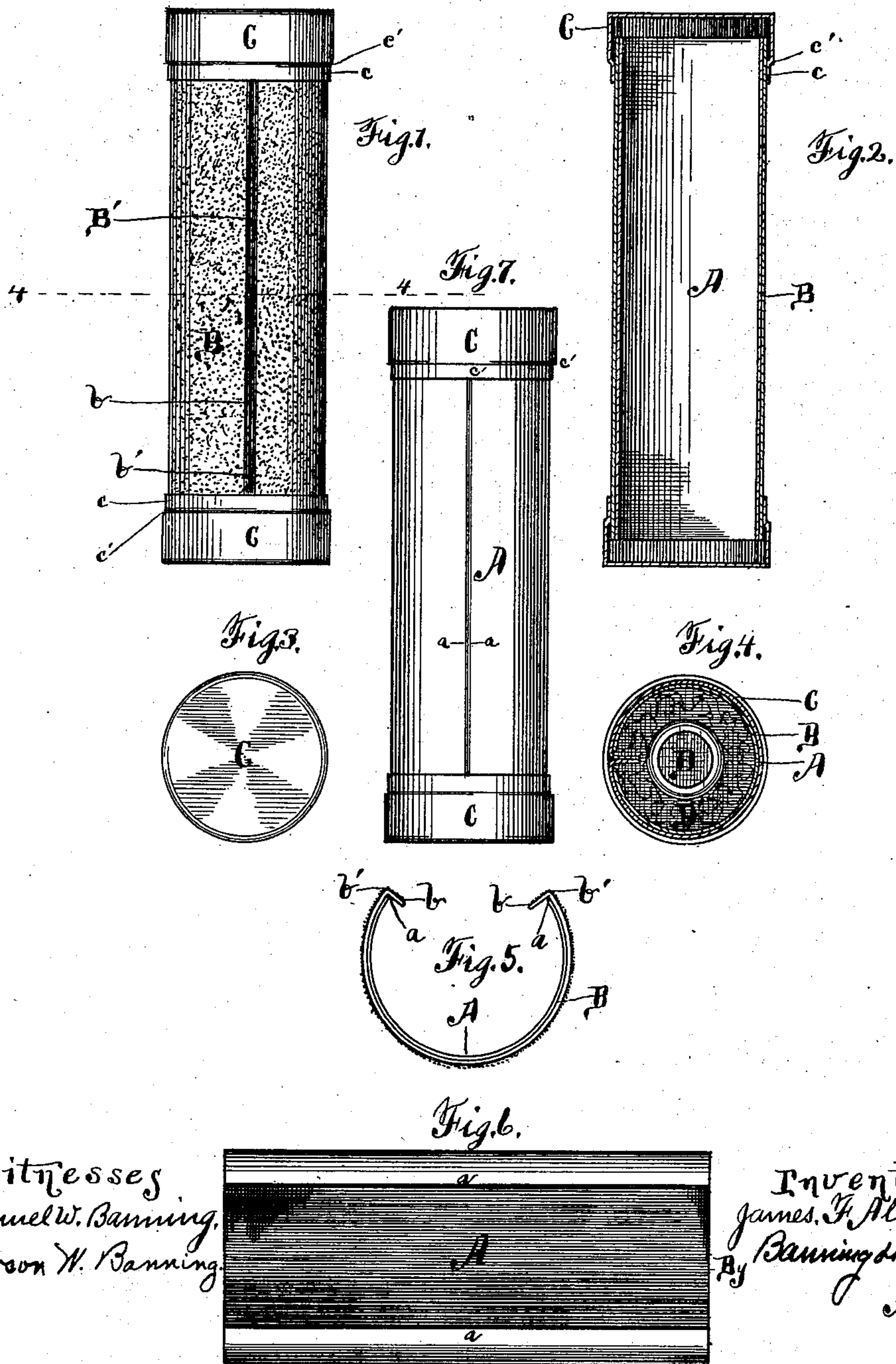
Patented June 10, 1902.

J. F. ALLISON.

DEVICE FOR REMOVING CORNS, &c.

(Application filed Aug. 2, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## DEVICE FOR REMOVING CORNS, &c.

SPECIFICATION forming part of Letters Patent No. 702,170, dated June 10, 1902.

Application filed August 2, 1901. Serial No. 70,610. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES F. ALLISON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Devices for Removing Corns, &c., of which the following is a specification.

The primary object of this invention is to provide a simple, safe, and economical device for removing callous skin from the feet or other portions of the body by means of abrasion or rubbing, and the base of the rubber or polisher of my invention is so constructed as to serve to retain in place thereon a sheet of abrasive material and at the same time to provide for the holding within itself of a vessel containing oil or other medicinal preparation, cloths, additional sheets of abrasive material, and, in fact, anything which it may be advantageous to use in the treatment of feet or other portions of the body by my improved device; but although this is the primary object I do not desire to limit myself to these particular features, since the base or body of the rubber or polisher is so constructed that it may be used as a receiver or holder for other articles and for other purposes.

In the drawings illustrating the invention, Figure 1 is a side elevation of the improved rubber or polisher of my invention; Fig. 2, a sectional elevation of Fig. 1; Fig. 3, an end view of Fig. 1, showing the retaining-cap; Fig. 4, a sectional view on line 4 of Fig. 1, showing a bottle within the rubber or polisher surrounded by a suitable packing material; Fig. 5, an end view of the rubber with the retaining-caps removed; Fig. 6, a side view of the elastic plate forming the base or body of the rubber or polisher, and Fig. 7 a side view of the invention having the abrasive material removed.

In the rubber or polisher of this invention an elastic base or body A, of springy material, preferably metal sprung outward in its normal position, as shown in Figs. 5 and 6, is used. Around this plate is mounted a sheet of abrasive material B, such as emery-cloth, so that its two ends b project beyond the edges a of the elastic plate. This arrangement not only serves to hold the sheet of abrasive material more firmly in place, but also provides an edge or shoulder b', whose use

will be explained hereinafter. After the abrasive material has been mounted, as above described, and a bottle D or other desirable vessel has been packed within the base or body of the rubber or polisher the ends a and the shoulders b' are brought together, as shown in Figs. 1 and 4, leaving a longitudinal slit B' in the side of the tube, and then the retaining-caps C are slipped in place, thus forming a compact cylindrical tube of a suitable and desirable shape for rubbing to remove callous cuticle or foreign matter from the skin. On account of the elastic nature of the spring-plate A the same will be held in contracted condition by means of the retaining-caps, thus holding the caps tightly and firmly on the ends of the tube and preventing them from being easily removed. It will be noted that the retaining-caps have depressed portions c at their inner edges, forming shoulders c'. These depressed portions serve to engage and retain more firmly the base or body and the abrasive material mounted thereon, and the shoulders aid in preventing the inner edges of the retaining-caps from striking and injuring the skin when the rubber or polisher is drawn back and forth, causing the same to be warded or sheered off in its passage over the skin. The caps, moreover, are of such length that they may be pushed down tightly over the ends of the base or body or drawn outwardly therefrom to a considerable extent, thus lessening or increasing the length of the rubber or polisher and exposing a smaller or larger amount of abrasive material, the ends of the base or body being firmly held in place meanwhile by the contracted portions of the retaining-caps. It will be noted that the edges a of the base or body A do not contact when the parts of the tube have been assembled as above described, but that a longitudinal-extending slit B' is left in the side. This slit enables the shoulders b' of the abrasive material to be employed in rubbing the toe and finger nails and such portions of the skin as it will be impossible to reach by means of the broad rounded surface of the rubber or polisher.

Although I have hitherto described the parts as being assembled with the sheet of abrasive material on the outside of the elastic base-plate, it is plain that the same may



be packed within when not in use and that the elastic base-plate of springy material may be arranged on the outside, as shown in Fig. 7.

In fact a simple, efficient, and economical packing-case may be provided for any small article by merely using the flexible plate of springy metal and the two retaining-caps mounted thereon, as shown in Fig. 7. These parts of themselves constitute an operative device that may be used as a retainer or holder of a sheet of abrasive material on the outside and of a bottle of oil or medicine within or may be used as a retainer or holder of suitable objects within alone regardless of its use as a rubber or polisher for removing hardened cuticle or other substances from the skin.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a device for removing corns, an elastic plate flexible to tubular shape, a sheet of abrasive material adapted to be wrapped around the elastic plate, and retaining-caps slidable over the ends of the elastic plate and the ends of the abrasive material carried thereon when the same are flexed to tubular shape to clamp the abrasive material to the plate and hold the plate in contracted condition, substantially as described.

2. In a device for removing corns, a split tubular body of springy material, abrasive material mounted thereon, and retaining-caps covering and holding the ends of the tubular body and clamping the ends of the abrasive material carried thereon to the tubular body, substantially as described.

3. In a device for removing corns, a longitudinally-split plain tubular body of springy material, a sheet of abrasive material mounted thereon, and retaining-caps of tubular shape having their inner edges depressed to hold the ends of the tubular body under tension in contracted condition and clamp the ends of the abrasive material smoothly around the body, substantially as described.

4. In a device for removing corns, a longitudinally-split tubular body of springy material, a sheet of abrasive material mounted thereon so that its edges project beyond and are bent down into the longitudinally-split tubular body, and retaining-caps of tubular shape having their inner edges depressed to fit around and hold the ends of the tubular body under tension in contracted relation and to clamp the ends of the abrasive material and hold the same around the body, substantially as described.

5. In a device for removing corns, a longitudinally-split tubular body of springy material, a sheet of abrasive material mounted thereon so that its edges project beyond and are bent down into the longitudinally-split tubular body, and retaining-caps of tubular shape adapted to fit and hold the ends of the tubular body under tension in contracted condition and to clamp the ends of the abrasive material and hold the same around the body, substantially as described.

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