

(No Model.)

F. B. DANTE.

DEVICE FOR REDUCING DISTORTED FINGER TIPS.

No. 500,056.

Patented June 20, 1893.

Fig. 1.

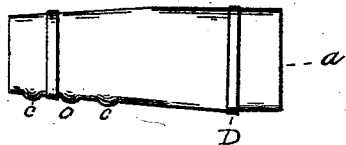


Fig 2

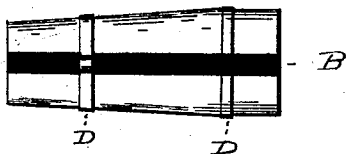


Fig 3

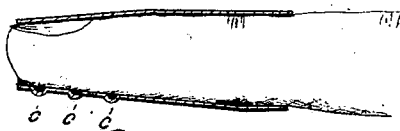


Fig 4

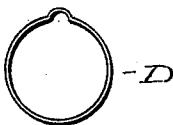


Fig 5



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK B. DANTE, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO
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DEVICE FOR REDUCING DISTORTED FINGER-TIPS.

SPECIFICATION forming part of Letters Patent No. 500,056, dated June 20, 1893.

Application filed August 23, 1892. Serial No. 443,925. (No model.)

To all whom it may concern:

Be it known that I, FRANK B. DANTE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented a new and useful Improvement in Finger Tapering and Joint Reducing Devices; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to that class of devices known as finger taperers or joint reducers, and has for its object certain improvements therein to better adapt it to the purpose intended.

I attain my object in the manner set forth in the specification and claims and illustrated in the accompanying drawings, in which—

Figure 1—is a side view of my improvement. Fig. 2—is a top view of my improvement. Fig. 3—is a longitudinal section. Fig. 4—shows a ring indented from the inside. Fig. 5—is an end view showing a modification of my improvement in which instead of a slot, the edges are beveled and over-lap each other.

Heretofore these devices have been made without means of adjustment either of the taper, or the annular opening so as to adapt them to fingers of different size and shape rendering them painful to the wearer, and in many cases more likely to create than to cure malformation. To overcome these difficulties I form my device of two or more parts, the body being a truncated cone with an annular opening through its entire length, and a longitudinal opening likewise extending its entire length. I then provide one or more rings which, when placed upon the conical body will tend to close the longitudinal slot as it or they are forced from the smaller to the larger end of the cone. In this way by having rings of different size I can increase or decrease the taper by placing a larger or smaller ring on the large end of the cone.

If I wish to make the body approximately straight I place two rings on the cone of nearly equal size (of course if necessary I can place rings of relative size between these end rings). If I wish to make it quite tapering I place a very small ring on the narrow end and a large one on the wide end; it will thus be

seen that by varying the size of the rings and adjusting them to position on the conical body I can adjust the taper to the desired angle and in this way I can start the operation with a slight taper and increase it at pleasure, besides making one set of devices answer for variformed fingers as it is evident that some fingers cannot be tapered as much as others, even by gradually increasing the angle of the conical sides as the finger conforms thereto.

To retain the rings in place I indent them from the inside and provide the body of the device with a series of projections which when the rings are placed on will register with and pass through them. Then by turning the rings so that the indentations and projections no longer coincide, I thus prevent the rings from coming off until it is desired to remove them. To prevent the edges of the longitudinal slot from marking the fingers I bevel them off or make them rounding.

I also show in Fig. 5 a modification of my device where I dispense with the longitudinal opening and bevel the edges, so, that when they lap upon each other they will be flush with the surface. It is also evident that the rings may be made without the indentations and the body of the device without the projections.

As at present constructed my device consists of the truncated cone "A" having a longitudinal slot "B" and a series of projections "C," the body having an annular opening extending the full length and a series of rings "D" varying in size and provided with indentations from the inside to enable them to be placed and retained upon the conical body. I have only shown one ring as all are alike except as to size and it is obvious that they need not be indented unless it is desired to do so.

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

1. A finger tapering device and joint reducer consisting of a hollow truncated cone slotted upon its upper surface its entire length and open at both ends substantially as described.
2. A finger tapering device and joint re-

ducer consisting of a hollow truncated cone opened upon one side, in combination with one or more rings adapted to enlarge or lessen the annular opening through said cone, substantially as described.

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3. A finger tapering device and joint reducer consisting of a hollow truncated cone opened on one side and provided with exterior projections in combination with one or

more rings having indentations, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK B. DANTE.

Witnesses:

HERBERT E. WOODWARD,
H. M. PHILLIPS.