L. W. Dowlin,

Vulcanizing Flask,

No. 61,174. Patented Jan. 15, 1867.

Fig. 4

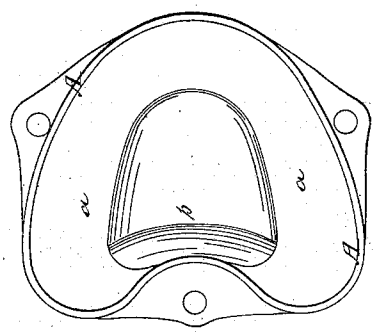


Fig. 5

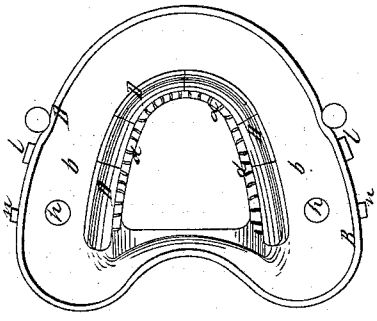


Fig. 3

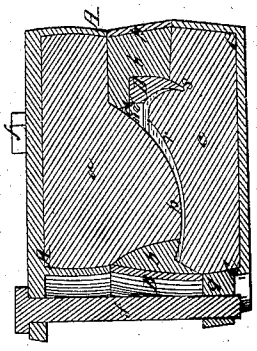


Fig. 6

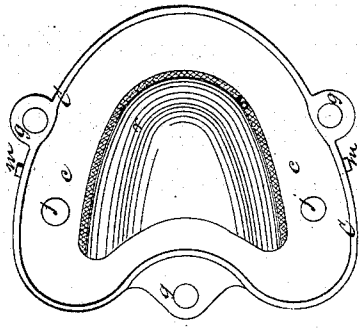


Fig. 1

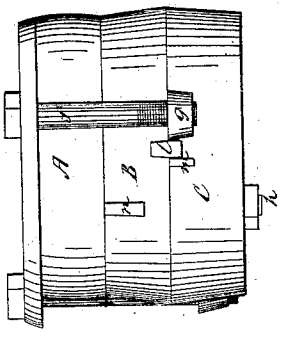
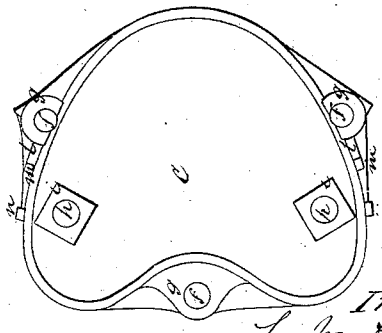


Fig. 2



Witnesses,
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S. Browne

Inventor
L. W. Dowlin
By his atty
J. S. Brown

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United States Patent Office.

LEVI W. DOWLIN, OF SHERBROOKE, CANADA EAST.

Letters Patent No. 61,174, *dated January* 15, 1867.

IMPROVED VULCANIZING FLASK FOR DENTISTS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, L. W. DOWLIN, now residing in Sherbrooke, in the county of Sherbrooke, Canada East, have invented an improved Vulcanizing Flask for packing rubber around artificial teeth; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a side view of the flask.

Figure 2, a bottom view thereof.

Figure 3, a central vertical section thereof in a plane, indicated by the line *x x*, fig. 2.

Figure 4, a bottom view of the upper part.

Figure 5, a bottom view of the middle part.

Figure 6, a top view of the lower part of the flask.

Like letters designate corresponding parts in all of the figures.

Instead of a single part, as C, in which the die is formed, and into which the teeth and rubber are placed and packed by forcing a cover down upon the said die part as in ordinary flasks, I employ a separate middle part, B, and a counter-die part, marked A, in addition to the die part C. The teeth or blocks D D are set in the middle flask part B, and then the two parts B and C are brought together and secured by two screw-bolts *h h* and nuts *i i*. The rubber is placed in over die part C, around the teeth D D, being carefully packed around the rivets *d d*. Then the counter-die part A is gradually forced down upon all by means of screw-bolts *f f f*, screwing into screw-lugs *g g*, or secured by nuts, until the rubber is completely shaped and packed. Several important advantages are accomplished by this construction of the flask over those heretofore in use. First, there is never any fear or danger of having too much or too little rubber, as in the common flasks, in which there is no remedy in either case; for in this, by using a small excess of rubber, that surplus, is forced out by pressing down the top part A, or else the said part is left partly open, and still makes the packing complete; whereas, in the old form, the two parts must be brought together, or else the teeth are not set in place in the die. Second, there is no danger of breaking or displacing the teeth by this, since they are fitted in the die part before the packing in of the rubber, and the pressure is applied. Third, there is no danger of breaking the flask or any part thereof in screwing the parts together, since there is no obstacle which impedes the bringing together of the parts, and there is no quick wearing out of the screws, as is the case when so much force has to be applied in the usual manner. Fourth, there is never any necessity of grinding off the teeth to make a fit if the parts are not brought completely together, as is the case with the common flask; for in this the position of the teeth is exactly determined by uniting the parts B and C before the packing of the ruber is done. Fifth, there is a large saving of rubber, since all the surplus is pressed out and saved, but not so with the ordinary flasks. Sixth, every particle of wax is readily removed from the rivets of the teeth with this flask, since they are readily reached and operated upon.

What I claim as my invention, and desire to secure by Letters Patent, is—

The employment of the middle part B of the flask, substantially as and for the purpose herein specified.

I also claim the separate union of the parts B and C before the rubber is packed in by means of screw-bolts *h h*, or their equivalent, substantially as and for the purpose herein set forth.

I also claim the combination and arrangement of the counter-die part A with the parts B and C, substantially as herein specified.

The above specification of my improved vulcanizing flask signed by me this eighth day of Novenmber, 1865.

LEVI W. DOWLIN.

Witnesses:

A. J. WOODWARD,

J. G. ROBERTSON.