G. STERNBERG.

IMPRESSION CUP AND MATRIX.

APPLICATION FILED OCT. 6, 1917.

1,257,947. Patented Feb. 26, 1918.

Fig 1

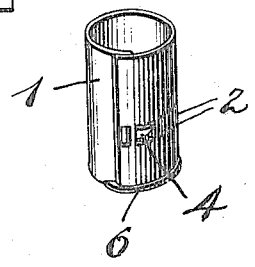


Fig 2

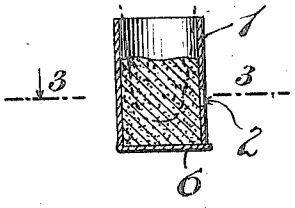


Fig 3

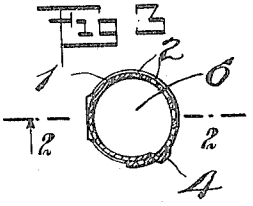


Fig 4

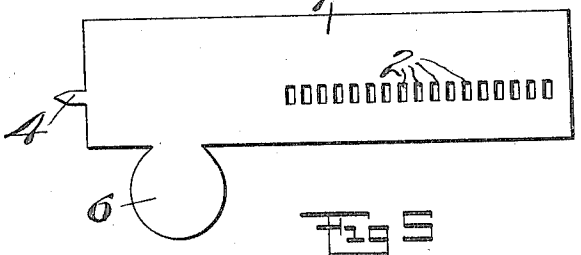
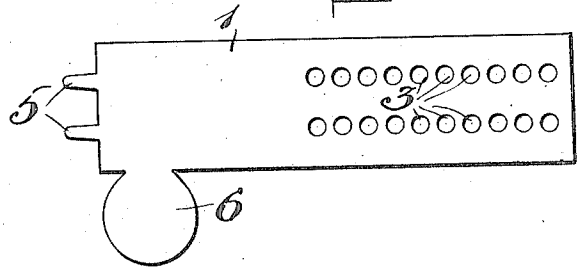


Fig 5



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IMPRESSION CUP AND MATRIX.

1,257,947. Specification of Letters Patent. Patented Feb. 26, 1918.

Application filed October 6, 1917. Serial No. 195,190.

To all whom it may concern:

Be it known that I, GEORGE STERNBERG, a citizen of the United States of America, residing at New Brighton, Staten Island, N. Y., have invented a new and useful Impression Cup and Matrix, of which the following is a specification.

My invention relates to an improved dental impression cup. Such a device is sometimes termed a thimble or a matrix and is designed to receive impression material for the purpose of taking an impression of an individual tooth for crowns, inlays and may also be used as a matrix to form a plastic filling. Such devices as now made are in the form of a cup integral throughout and relatively expensive to manufacture and difficult to ship with safety because of their form. My invention comprehends a very substantial improvement in such a structure which very materially reduces cost of manufacture, adds to safety and decreases the expense of transportation and facilitates adjustment or adaptability to a wide variety of conditions, that is to say, whereas the thimbles and bands now in use must be made of different sizes to fit different conditions. My improvement enables me to produce a thimble of any desired size within bounds.

In the accompanying drawing:

Figure 1 is a perspective view of the thimble complete and ready for use and shown as relatively enlarged.

Fig. 2 is a vertical section on the line 2—2 of Fig. 3 and illustrating conventionally some impression material therein.

Fig. 3 is a section on the line 3—3 of Fig. 2.

Fig. 4 is a plan view of the article as made and sold, namely, in the form of a sheet metal blank.

Fig. 5 is a similar view of a modification.

Referring to Fig. 4, I have shown the main body 1 in the form of a strip of sheet metal which may be blanked out to the proper size, and I form therein a plurality of perforations which may be either in the form of slots 2—2 as shown in Figs. 1 to 4, or round holes 3—3, as shown in Fig. 5. I also form on said blank appropriate interlocking tongues for coaction with said perforations. In Fig. 4, 4 represents one of these tongues. In Fig. 5, 5—5 represent two of these tongues, there being two rows of perforations shown in Fig. 5, only one row being shown in Fig. 4. I also form in conjunction with the blank, and at one edge thereof, an offset 6 appearing in both Figs. 4 and 5.

In operation: The blank 1 is preferably made of metal such as copper, for example, which can be readily bent or conformed to the desired size and shape by fitting it to the tooth of which an impression is to be taken. The blank is then locked in this position by means of the locking tongues, which tongues are passed through the adjacent perforations and bent over as shown in Fig. 1, there being in this instance only one tongue 4 employed. The offset or projection 6 is then bent down to close one end of the device and form the cup shaped member in which the impression material may be placed and held as shown in Fig. 2. When the cup or thimble is thus formed and filled, it may be forced on to the tooth by thumb or finger pressure applied to the end piece 6. Obviously the outer edge of the cup may be trimmed by the dentist using the same to fit any particular condition that he may find calls for such trimming or reshaping.

While I have shown my matrix in certain preferred forms, it is obvious that it may be modified in various respects without departing from the spirit or scope of the invention.

By the term "cup" as used herein, I intend of course to include a matrix.

What I claim is:

1. A dental impression cup for taking impressions of individual teeth comprising, a sheet metal blank of sufficiently thin material to be bent to form a side wall of said cup, with means for securing said blank rolled to form a cup of the required size

and a lateral off-set at one edge of said blank arranged to be bent over to form a closed end for the complete cup.

2. A dental impression cup for taking impressions of individual teeth comprising, a sheet metal blank of sufficiently thin material to be bent to form the side wall of said cup, with means for securing said blank rolled to form cups of various sizes and a lateral offset at one edge of said blank arranged to be bent to form the closed end of said complete cup.

GEORGE STERNBERG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."