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Improvement in Gold for Dental Purposes.

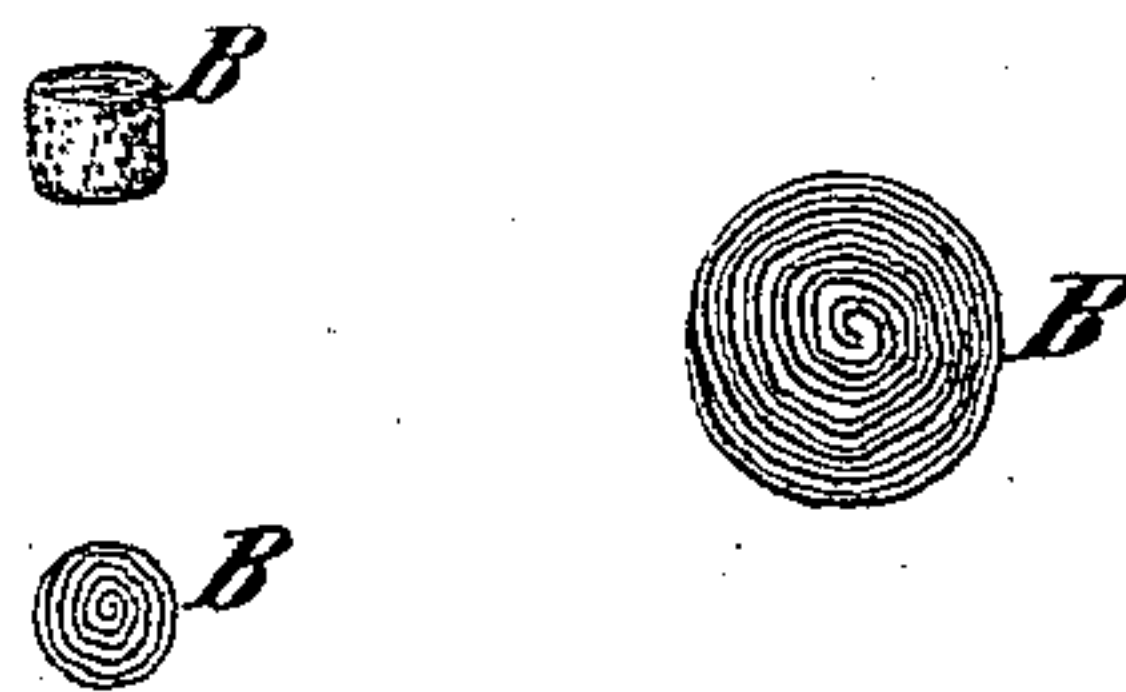
No. 126,242.

Patented April 30, 1872.

Fig. 1.



Fig. 2.



Witnesses:

Hustave Dietrich
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN GOLD FOR DENTAL PURPOSES.

Specification forming part of Letters Patent No. 126,242, dated April 30, 1872.

Specification describing certain Improvements in Dental-Gold Preparation, invented by RICHARD S. WILLIAMS, of New York city, in the county and State of New York.

The present invention relates to a new preparation of gold-foil for dental purposes, by means of which the gold may be used for purposes for which it is not otherwise well adapted; and it consists in rolling the foil into cylinders, the length and diameter of which is governed by the size and number of sheets of the foil used, and then cutting the cylinders into pieces of proper size for use.

In the accompanying drawing, Figure 1 represents the roll or cylinder, marked A, formed of one or more sheets or layers of corrugated gold-foil. Fig. 2 represents the cylinder A, cut up into pieces, marked B, ready for use.

Similar letters of reference indicate corresponding parts.

In carrying out my invention I first take what is commonly known as dentists' corrugated gold-foil, either a part of a sheet or one or more whole sheets, according to the quantity of gold required in the cylinder, and roll it up into a uniform cylinder; but, just before completing the roll, the projecting edge is warmed, so as to make it adhere, when it is lapped on the roll, and thus forms a complete roll or cylinder, of a length equal to the width or length of the sheet or sheets, and of a diameter proportioned to the number of sheets used. In this cylinder the inner folds do not adhere, and the cylinder, for this reason, appears very soft. After the long cylinder is thus formed, I take a razor or other sharp instrument and cut it into short pieces, B, as required for dentists' use.

I am aware that corrugated gold-foil may,

by putting a number of sheets on top of each other, be cut into square blocks or pieces. I have prepared gold-foil in that way myself, but this plan requires a certain degree of adhesiveness between the sheets, else, when the gold is cut, the layers will separate, or the edges of the layers will be crushed together, and produce an objectionable degree of stiffness, which is avoided by my plan.

My present invention has this advantage, that short cylinders of gold are produced, which can be used as such in filling teeth. Short cylinders may be made in a similar manner from plain gold-foil, but it is difficult, if not impossible, to cut such pieces from plain gold-foil without crushing and consolidating the edges, and thereby, in a great measure, defeating the main object, which is to leave the pieces as soft as possible. Dentists do not possess the instruments and other facilities for producing these short cylinders of corrugated gold-foil, as required in their practice, nor have they usually the necessary time to spend in the operation. They desire to have the gold they use prepared in the most convenient and perfect form for the various uses to which they apply it.

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

As an article of manufacture, the pellets B, formed of finely-indented gold-foil, coiled into a cylindrical form, and cut as described, and for the purpose set forth.

RICHD. S. WILLIAMS.

Witnesses:

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