

R. S. WILLIAMS.
Preparing Gold for Dentists.

No. 137,747.

Patented April 8, 1873.

Fig 1.



Fig 2. Fig 3



Fig 4

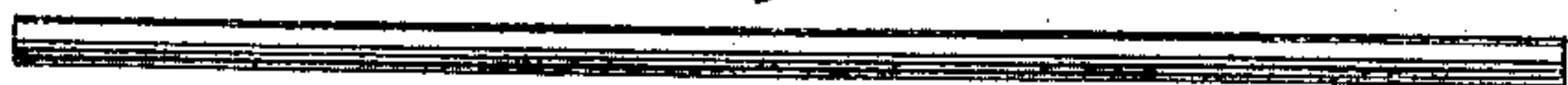


Fig 5. Fig 6



Fig 7



Fig 8. Fig 9



Fig 10

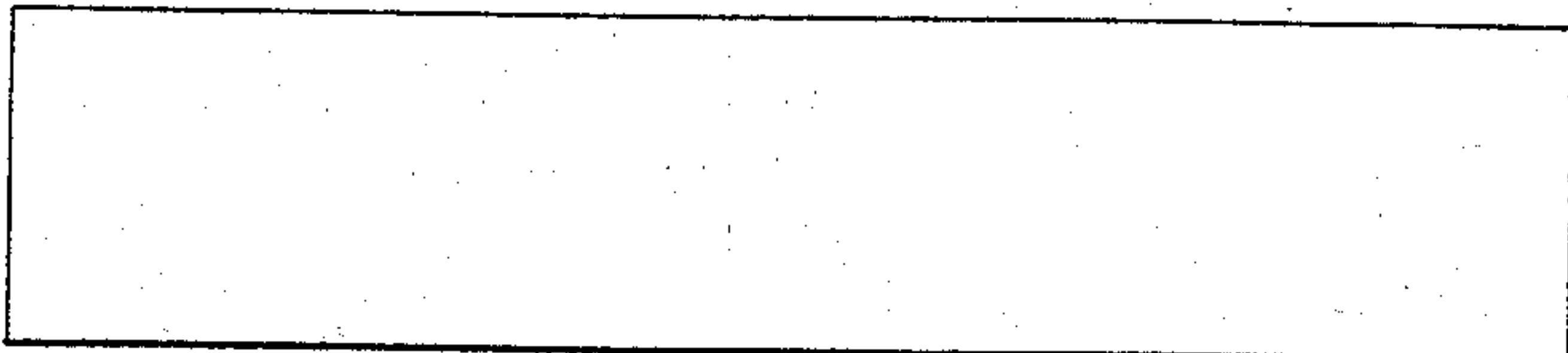
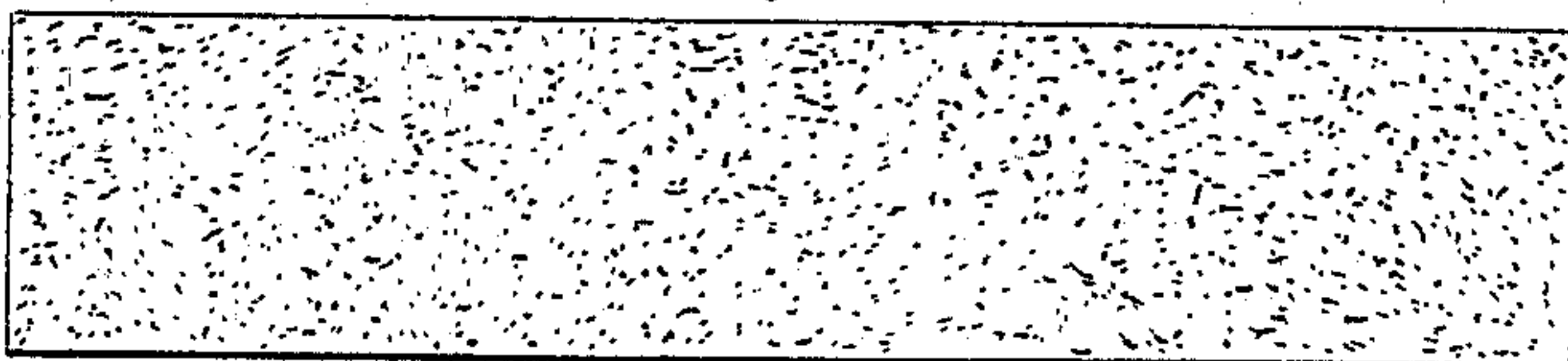


Fig 11



Witnesses:

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per *[Signature]*

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UNITED STATES PATENT OFFICE.

RICHARD S. WILLIAMS, OF NEW YORK, N. Y.

IMPROVEMENT IN PREPARING GOLD FOR DENTISTS.

Specification forming part of Letters Patent No. 137,747, dated April 8, 1873; application filed December 18, 1872.

To all whom it may concern:

Be it known that I, RICHARD S. WILLIAMS, of the city, county, and State of New York, have invented a new and useful Improvement in Dental Gold; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

This invention is in the nature of an improvement in preparing gold for dental purposes; and the invention consists in preparing the foil in the manner hereinafter fully described and afterward cutting it into cylindrical and rectangular sections in such manner as not to condense the several layers of foil composing the sections, thereby preserving the elastic and adhesive qualities of the foil.

In the accompanying sheet of drawing, Figure 1 is a roll of frosted foil; Figs. 2 and 3, sections of same; Fig. 4, a roll of plain foil; Figs. 5 and 6, sections of same; Fig. 7, roll of plain frosted foil; Figs. 8 and 9, sections of same; Fig. 10, strip of plain foil; and Fig. 11, strip of indented or frosted foil.

Similar letters of reference indicate like parts in the several figures.

A represents a cylinder or roll of gold foil, such as is used by dentists. This roll is formed by rolling over a mandrel or in any desirable manner, and is made from two or more sheets of plain foil with an outer sheet of the frosted gold. The lapping edge of the foil is passed over the flame of an alcohol lamp to anneal it, which will cause the edge to adhere readily to the roll and prevent its unrolling. The roll being thus formed, it is now laid upon any suitable foundation—a block of wood, for instance—with a narrow groove formed in it, the end of the cylinder projecting beyond the groove just as far as it is intended the length of the sections shall be. A sharp instrument—as a razor—is next drawn lightly through the groove

in the wood and the cylinder of foil lying over it, which cuts off from the cylinder sections of foil without in the least consolidating the ends of the sections, but leaving each coil or layer of foil composing the cylinder separate and distinct from the other. By this means small sections or plugs are produced which retain all the natural elasticity and adhesive qualities of the gold, enabling the dentist to use it with facility, without loss of time, and insuring good work and satisfaction to his patient.

After the rolls are formed, as above described, they may be gently flattened with a smooth knife and then cut, forming small rectangular sections, which for some purposes the dentist may find more convenient to use, but the ductility and adhesive qualities are preserved the same in this shape as in the cylindrical.

The object of combining the frosted and plain gold is that the frosted gold, by reason of its greater stiffness, will prevent the several folds forming the coil from adhering before they are used by the dentist; and, by connecting the edges as described, the form of the coil or pellet is preserved intact until used.

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

1. Gold for dentists' use, consisting of sections cut from rolls composed of plain and frosted gold foil, when the ends of such sections are not compressed or consolidated, as herein shown and described.

2. Rolls of gold for dentists' use composed of sheets of plain and frosted gold foil, as described, with the edge connected as specified, so as to adhere to the gold and prevent it from unrolling.

RICH'D. S. WILLIAMS.

Witnesses:

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