

G. J. PACK.
DENTAL GOLD.

No. 179,423.

Patented July 4, 1876.

FIG. 1.

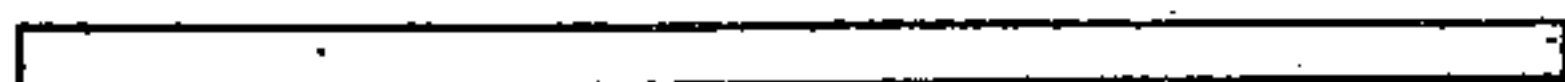


FIG. 2.

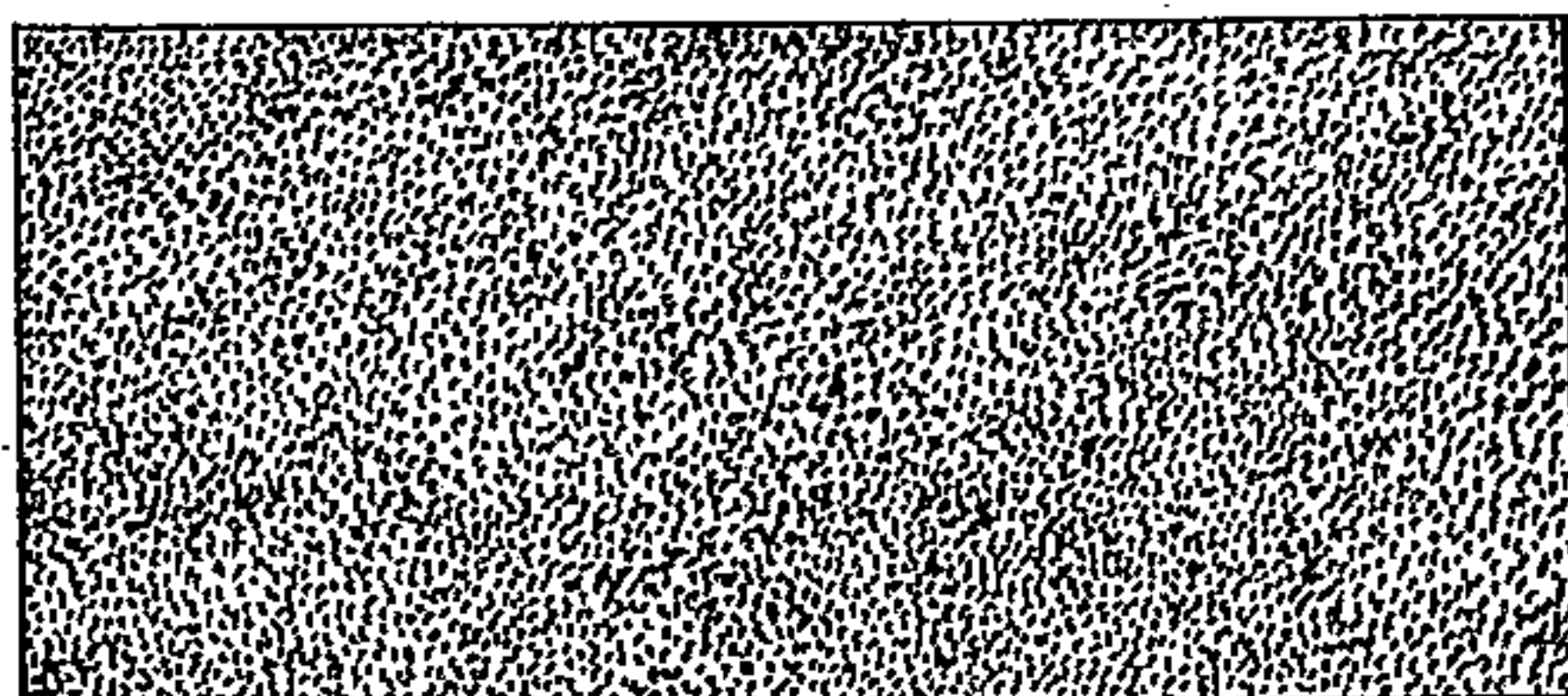


FIG. 3.



FIG. 4.



FIG. 5.



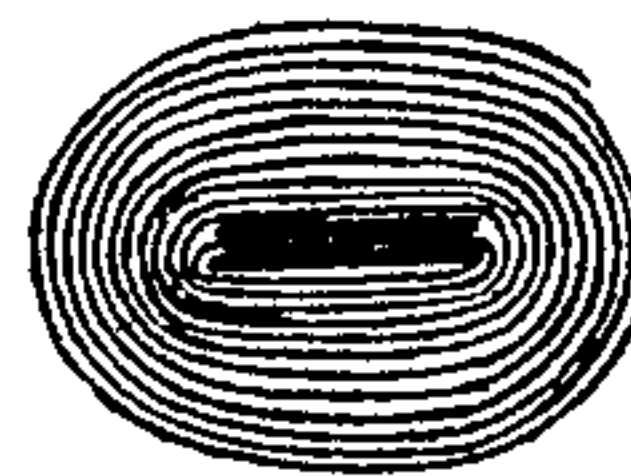
FIG. 6.



FIG. 7.



FIG. 8.



WITNESSES

J. D. San.
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN DENTAL GOLD.

Specification forming part of Letters Patent No. **179,423**, dated July 4, 1876; application filed June 23, 1875.

To all whom it may concern:

Be it known that I, GEORGE J. PACK, of the city of New York, in the county of New York and State of New York, have invented a new and useful Article of Dental Gold; and that the following specification is a description thereof.

My invention consists in the production, for dentists' use, of a new and improved article of gold for filling teeth, which possesses qualities not heretofore found in such article, and is capable of being more readily and firmly packed in the tooth than ordinary gold foil or filling.

In producing my improved article of dental foil or filling I use, in part, gold-foil corrugated or shrunk according to the process patented to E. G. and G. Kearsing, and in combination therewith use narrow strips of ribbon-gold, prepared or produced according to the process described in Letters Patent granted to me on the 17th day of May, 1870, or narrow strips of plain gold-foil, which may be rather thicker than the plain gold-foil ordinarily used by dentists. Such ribbon-gold or plain foil is cut into narrow strips, as shown in Fig. 1. I then take sheets of the corrugated or Kearsing gold, and anneal them, so as to give them the desired quality of cohesion, and wind them upon or over one or more of such narrow strips of the ribbon or plain foil gold, introducing also, if desired, as such corrugated foil is being wound about such strips, one or more additional strips of such plain gold, and forming the same into rolls or layers of any size required, which may afterward be cut into pieces of any required length, suitable for insertion into the cavities of the teeth.

Figure 1 shows a strip of the ribbon or plain gold as used. Fig. 2 shows a part of a sheet of corrugated or shrunk gold-foil. Fig. 3 shows a roll or cylinder of such combined plain and corrugated foil, having a single longitudinal

strip of ribbon or plain gold. Fig. 4 is a block cut from the same. Fig. 5 is a section of the same enlarged. Fig. 6 shows a similar roll having two strips of ribbon or plain gold. Fig. 7 is a block of the same. Fig. 8 is a section of the same enlarged.

The rolling of gold-foil into cylinders for dentists' use is not new; but by introducing into a coil or roll one or more ribbons or narrow strips of plain gold, such ribbons or strips running lengthwise through the coil in the center, and in other parts thereof, there is imparted to such coil a quality of toughness which prevents, to a considerable degree, the instruments of the operator perforating the gold or filling as it is being condensed or pressed down into the tooth, and thus enables the filling to be more effectually and readily packed, and different portions of filling can be more effectually and firmly united with each other. The roll or cylinder of such plain and corrugated or shrunk gold may be formed over a mandrel, or in any desirable manner.

To corrugate or shrink the gold-foil I prefer the process patented to E. G. and G. Kearsing above referred to; but it can be corrugated or shrunk in other ways, the particular method or process used to produce such result not being material, and, if desired, sheets of the ordinary leaf-gold may be used with the corrugated or shrunk foil, to cover the longitudinal strips or ribbons.

What I claim is—

Gold for dentists' use, composed of longitudinal strips or ribbons of plain gold, wound or covered with corrugated or shrunk gold-foil, substantially as described, and for the purposes set forth.

GEO. J. PACK.

Witnesses:

S. D. LAW,
HUGH JONES.