

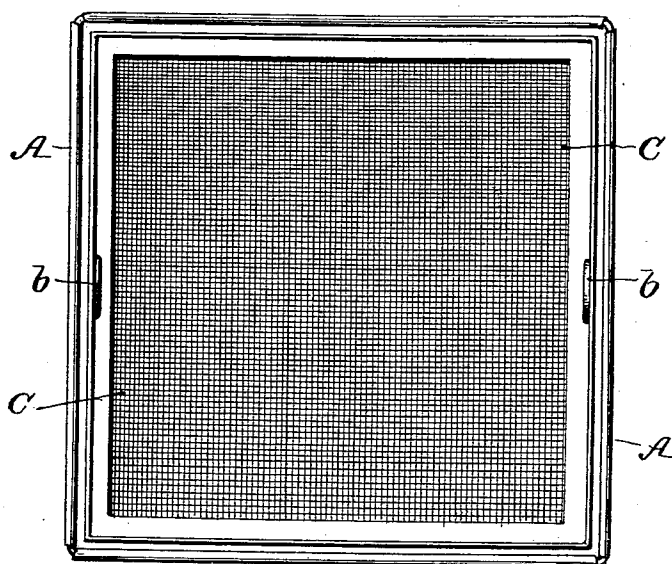
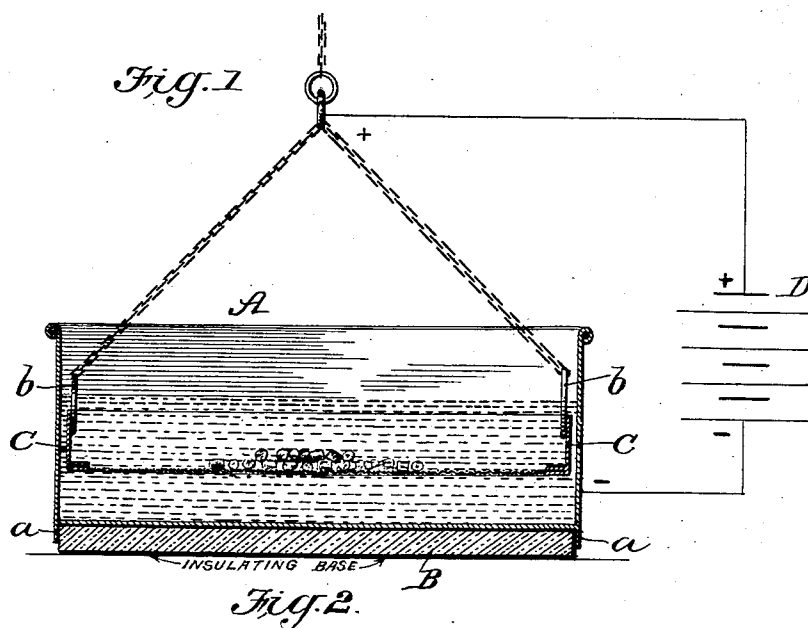
(No Model.)

C. A. FLOWER.

METHOD OF PREPARING DENTISTS' GOLD.

No. 564,877.

Patented July 28, 1896.



WITNESSES:
Jos. A. Ryan
Edw. W. Byrne

INVENTOR
Chauncey A. Flower
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHAUNCEY A. FLOWER, OF NEW BETHLEHEM, PENNSYLVANIA.

METHOD OF PREPARING DENTISTS' GOLD.

SPECIFICATION forming part of Letters Patent No. 564,877, dated July 28, 1896.

Application filed April 4, 1896. Serial No. 586,226. (No specimens.)

To all whom it may concern:

Be it known that I, CHAUNCEY A. FLOWER, of New Bethlehem, in the county of Clarion and State of Pennsylvania, have invented a new and useful Improvement in Methods of Preparing Dentists' Gold, of which the following is a specification.

My invention is in the nature of an improved method of preparing gold for the use of dentists in filling teeth, whereby it can be made to weld or cohere and thereby be made into a solid filling without the usual aid of a hand, electric, or any other form of mallet, only requiring by an ordinary skilled dentist a slight manipulating pressure with ordinary plugging instruments.

My invention is an improvement upon the method set forth in my previous application for a patent, filed September 4, 1895, Serial No. 561,456, and allowed October 7, 1895, and it consists, chiefly, in plunging the gold after it comes from the annealing or tempering furnace into a bath of water charged with electricity, whereby the fibers or ultimate particles of the gold are better separated and loosened and freed from any oxid and better adapted to interlacing or cohering when compacted into a filling, as will be hereinafter more fully described.

In carrying out my invention I use an apparatus similar to that shown in the drawings, in which—

Figure 1 is a vertical section, and Fig. 2 a plan view of the electrical bath.

A is a pan of zinc, which has at its bottom a marginal flange *a*, that is seated upon a non-conducting and insulating base B, which may be a plate of glass or a porcelain or earthen tile or a plate of hard rubber. Within

this pan is arranged a tray C, of copper, having a woven-wire bottom, which tray is provided with handles *b*, by which it may be suspended within the pan without touching its sides or bottom and be conveniently lifted into or out of the pan by suitable suspending devices. To the zinc pan is attached the negative pole of a battery D, and to the tray C is attached the positive pole of the battery. The pan now being filled with water, the gold after it comes from the furnace, where it has been heated to a temperature of not less than 600° Fahrenheit, is placed in the tray and plunged into the bath of electrified water, which softens the gold, causing its fibers to become loosened and granular and in a condition to secure greater coherence when compacted into fillings. By plunging the gold into the electrified bath not only is the gold changed physically by the chilling effect, but the polarity of the bath aids the ultimate particles in assuming the form and relation best adapted to coherence, and also keeps the surface clean and bright and in a condition for close and permanent unification by the dental tool.

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

The process of treating gold for the use of dentists which consists in first heating it as described, and then subjecting it to a cooling effect in an electrified bath substantially as and for the purpose described.

CHAUNCEY A. FLOWER.

Witnesses:

LEON J. LONG,
GEORGE BIEHL.