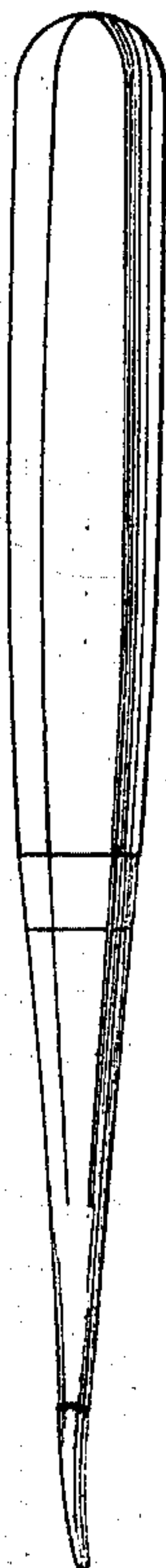


G. H. CHANCE.
Dental-Pluggers.

No. 146,380.

Patented Jan. 13, 1874.



Witnesses:

A. W. Almqvist
Alex F. Roberts

Inventor:

G. H. Chance
Per *Munnell*
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE H. CHANCE, OF SALEM, OREGON.

IMPROVEMENT IN DENTAL PLUGGERS.

Specification forming part of Letters Patent No. **146,380**, dated January 13, 1874; application filed September 6, 1873.

To all whom it may concern:

Be it known that I, GEORGE H. CHANCE, of Salem, in the county of Marion and State of Oregon, have invented a new and useful Improvement in Dentists' Plugging-Instruments, of which the following is a specification:

Heretofore the metal points of the instruments used by dentists in filling teeth with gold have been exclusively of steel.

By the use, instead thereof, of gold rendered of suitable hardness by alloy, I have discovered that important advantages are gained: First, in the prevention of electrical action, always resultant from the contact of two different metals, to wit, the steel tool and the gold filling. Second, in obviating the danger of minute particles of steel abraded from the plugger, when made of steel, during the operation of filling remaining in the filling, forming a center of oxidization. Particles of the gold tool, if abraded and mingled with the gold filling, form a homogeneous mass, with no possibility of oxidization. Third, in preventing un-

due force being used, to the detriment of the operation and pain of the patient, the pliability of the gold point being such that it will bend before an excessive blow, while sufficiently hard for all practical purposes. With gold points, also, it is impossible to destroy by excessive pressure that peculiar spongy condition of the gold filling on which its cohesion depends.

The drawing is a side elevation of a dentist's plugger with a point constructed according to my improvement. A is the aforesaid point.

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

A gold-pointed plugger, or analogous dental instrument, substantially as described.

GEORGE H. CHANCE.

Witnesses:

A. P. THAYER,
T. B. MOSHER.