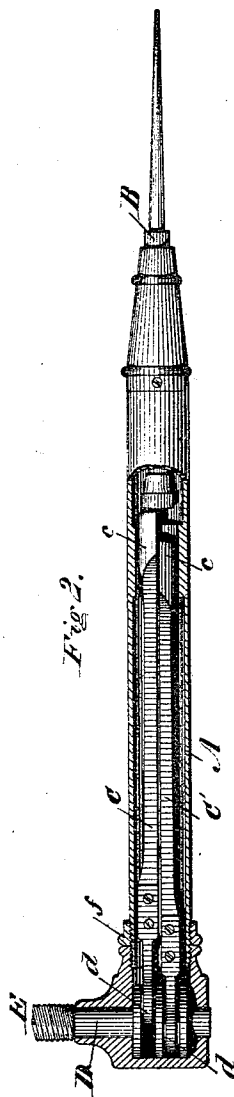
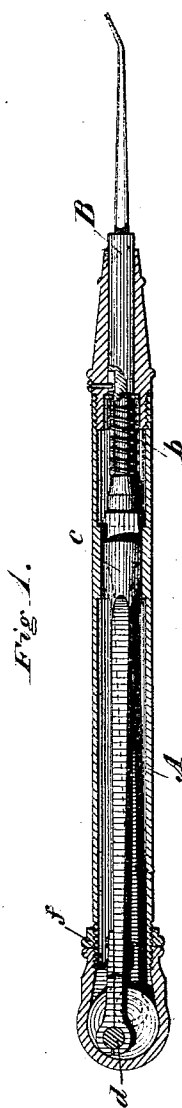


G. REHFUSS.
Dental-Pluggers.

No. 167,197.

Patented Aug. 31, 1875.



WITNESSES

Harry King
Ed Davidson

Geo Rehfuß

INVENTOR

By *his* Attorney

Wm W Baldwin

UNITED STATES PATENT OFFICE.

GEORGE REHFUSS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
SAMUEL S. WHITE, OF SAME PLACE.

IMPROVEMENT IN DENTAL PLUGGERS.

Specification forming part of Letters Patent No. **167,197**, dated August 31, 1875; application filed
July 12, 1875.

To all whom it may concern:

Be it known that I, GEORGE REHFUSS, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improved Dental Plugger, of which the following is a specification:

My invention relates to automatic dental pluggers of the class in which the tool is forced in one direction by a spring, and in the other by a positive blow; and its object is to impart a series of positive strokes to the tool in rapid succession; to which end my improvement consists in combining, in a plugging-tool, independent mallets, actuated directly from a common driving-shaft by a crank and pitman.

In the accompanying drawings of my improved plugger, Figure 1 is a vertical longitudinal section, and Fig. 2 a similar one at right angles thereto.

The case A contains a spring-plugger or tool-holder, B, of well-known construction, whose spring *b* retracts it after each blow to bring it within reach of the hammer again. Mallets *c c*, of such area as just to fill the bore of the case in which they reciprocate, which thus forms a guideway for them, are each connected, by its respective pitman C C', with a corresponding crank, *d d'*, or a shaft, D, revolving in suitable bearings in the casing, and driven by a flexible or other shaft, E, from a dental engine or other suitable well-known way.

My invention, it will be seen, enables me to strike a series of positive, rapid blows upon the tool, each mallet acting in succession. In practice I have found two enough to do good work, but more might be used, if deemed expedient.

The instrument is direct-acting, very simple, and effective in operation. The force of the blow may be graduated by means of the check-screw collar *f*, which permits the case to be screwed more or less into the head, thus varying the distance between the crank-shaft and tool-holder.

I claim—

1. In a dental plugger, the combination, substantially as hereinbefore set forth, of the casing, the crank-shaft, its pitmen, the mallets carried thereby, and the spring-plugger or tool-holder, whereby a series of positive blows may be given directly upon the tool.

2. The combination, substantially as set forth, of the casing, the head in which the crank-shaft is mounted screwing thereon, and the check-screw collar, whereby the distance between the crank-shaft and tool may be varied to regulate the force of the blow.

In testimony whereof I have hereunto subscribed my name.

GEO. REHFUSS.

Witnesses:

ELI T. STARR,
J. A. B. WILLIAMS.