

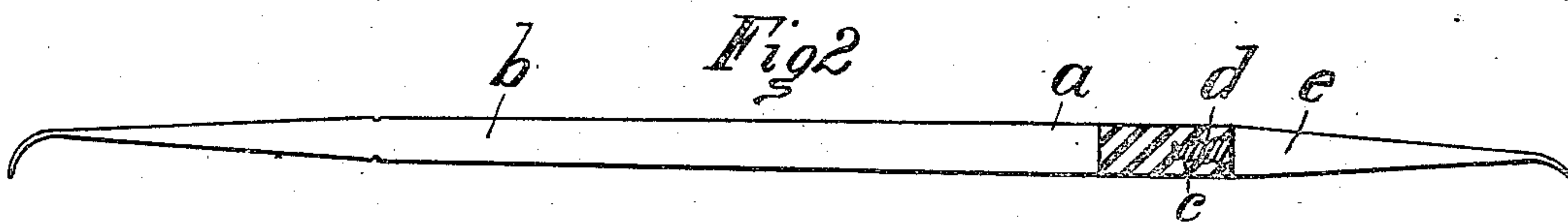
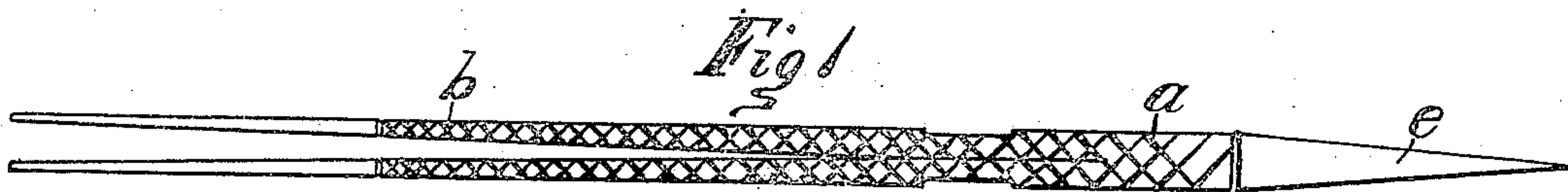
(No Model.)

J. HOOD & S. H. REYNOLDS.

DENTAL INSTRUMENT.

No. 321,814.

Patented July 7, 1885.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN HOOD AND STEPHEN H. REYNOLDS, OF BOSTON, MASSACHUSETTS.

## DENTAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 321,814, dated July 7, 1885.

Application filed November 18, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN HOOD and STEPHEN H. REYNOLDS, citizens of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Dental Instruments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an improvement in dental instruments by which the pliers used as foil-carriers and for other purposes are made to form the handle of a plugger or other instrument used in dental operations. In order to accomplish this result, the pliers are preferably formed from a steel bar or rod having a suitable cross-section to make the handle of the instrument. This bar, after its ends are properly formed, is bifurcated to produce the spring-jaws of the pliers by means of a longitudinal saw-cut, which nearly separates it into two parts, they being only connected by a short uncut portion at one end, the specific method of construction being made the subject of a separate application for a patent bearing even date herewith.

The special improvement upon which protection is sought by this application consists in providing the solid end of the pliers with a cone-socket intended to receive any one of the numerous small instruments employed in dental practice as pluggers and for other operations upon the teeth, so that the use of a separate handle for each instrument, or a handle with a cone-socket to be used alone for that purpose, is rendered unnecessary, the present improvement giving to the dental operator a pair of pliers that not only perform their functions as such in a perfect manner, but at the same time form a handle for the many instruments employed in plugging and cleaning teeth.

In the accompanying drawings, Figure 1 shows the instrument with a plugger attached. Fig. 2 is a longitudinal section showing the cone-socket and the method of securing the pluggers or other instruments therein. Fig. 3 is a view of the instrument when used only as pliers, the cone-socket being filled by a screw-plug.

The body or solid part of the instrument is

represented in the different figures by the letter *a*, and the bifurcated spring-jaws by *b b*. In the end of the solid part of the instrument is formed a screw-threaded conical cavity or socket, *c*, which receives the conical screw-threaded end *d* of the plugger *e*.

It will be apparent that any one of a series of implements, each provided with the conical screw-threaded end *d*, may be firmly secured to the instrument by screwing them into the socket *c*.

When it is desired to use the instrument simply as pliers, the plugger or other tool may be removed and its place supplied by the acorn-shaped plug *g*, which gives a neat finish to the end of the instrument.

It will be apparent that the body of the instrument may be formed and ornamented in many different ways without departing from the spirit of our invention, which consists, essentially, in so forming the pliers that they may be provided with a socket at their solid end to receive the plugging or other implement, the pliers forming the handle by which it is manipulated.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent, the following:

1. As an improvement in dental instruments, the pliers provided with a socket to receive a plugger or other implement, as and for the purpose hereinbefore set forth.

2. The pliers provided with a conical screw-threaded socket in the solid end, in combination with a plugger or other dental implement having a conical screw-threaded end for insertion in said socket, as set forth.

3. The pliers provided with a screw-threaded socket, *c*, in combination with the screw-plug *g*, for the purpose of closing said socket and giving an appropriate finish to the solid end of the pliers when not in use as a handle, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN HOOD.  
STEPHEN H. REYNOLDS.

Witnesses:  
JOHN MAY,  
W. BOGLE.