

(No Model.)

J. L. MEWBORN.  
REINFORCING Mallet FOR DENTAL PLUGGERS.

No. 442,070.

Patented Dec. 2, 1890.

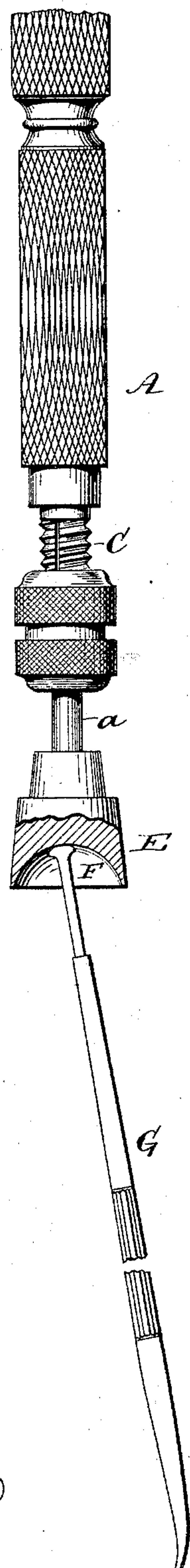
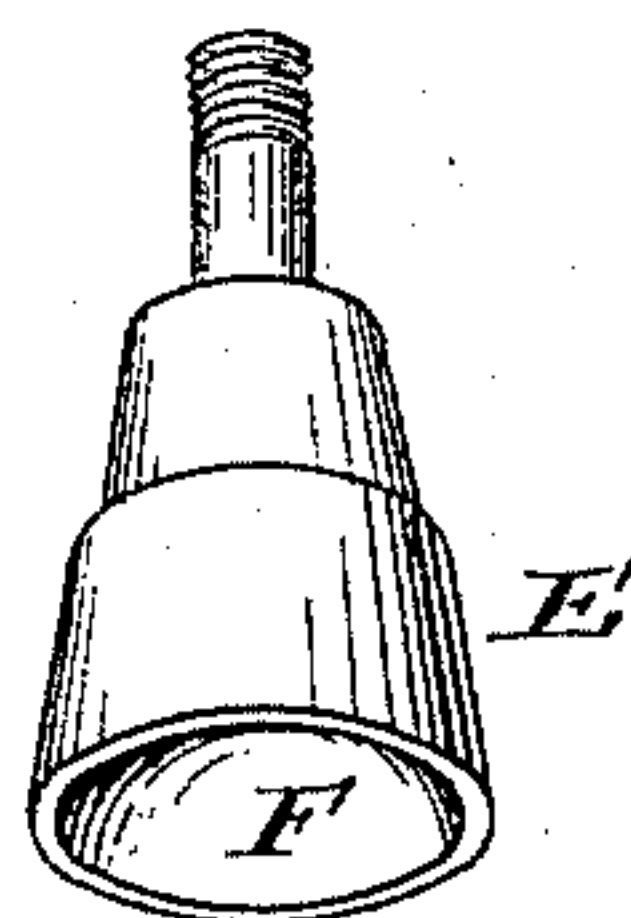


Fig 1

Fig 2



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JOSEPH L. MEWBORN, OF MEMPHIS, TENNESSEE.

## RE-ENFORCING MALLET FOR DENTAL PLUGGERS.

SPECIFICATION forming part of Letters Patent No. 442,070, dated December 2, 1890.

Application filed June 13, 1890. Serial No. 355,370. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH L. MEWBORN, of Memphis, in the county of Shelby and State of Tennessee, have invented a new and Improved Re-Enforcing Mallet Attachment for Mechanical Pluggers, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation, partly in section, of the bit-holding end of the mechanical dental plugger, showing my improvement in place; and Fig. 2 is a perspective view of my improved attachment detached from the plugger.

Similar letters of reference indicate corresponding parts in both figures.

The object of my invention is to provide an attachment by means of which any dental engine or mechanical plugger or mallet can be converted into a re-enforcing mallet for application to any ordinary hand dental tool, such as is commonly used in compressing and finishing fillings, preparing cavities, trimming teeth, or other work of like character.

My invention consists in a cup-shaped tool adapted to be inserted in a mechanical plugger in place of the ordinary bit or tool used in connection with such plugger, the said cup-shaped tool being constructed to receive the end of an ordinary hand tool or plugger, all as will be hereinafter more fully described.

The mechanical plugger or mallet A, to which my improvement is applied, may be of any well-known construction. To the bit-holding shank C of the plugger A is fitted the rod *a*, adapted to be inserted in the end of the shank C, and held therein by the means usually employed for holding the bit. In the present case the rod *a* is screwed into the end of the shank, and held there by means of the nut D, screwed upon the tapering thread on the end of the shank C, the said shank being split, so as to tightly clamp the rod *a* when the nut D is turned.

The body E of my attachment, which is attached to or formed integrally with the rod *a*, consists of a tapering piece of metal provided with a concaved or hemispherical cavity F, forming a cup for receiving the end of an ordinary hand-plugger G, or a hand-tool, chisel,

gouge, graver, trimmer, or burnisher. The hand-tool is grasped and controlled by the hand of the operator, and gold is taken up and placed in the cavity by means of the plugger. The blow for compressing the filling is delivered by the machine-mallet A through the medium of the attachment held by the shank C of the machine-mallet. The attachment is placed in contact with the end of the plugger, as shown, and the rim of the cup prevents the attachment slipping from the tool. The mechanical mallet is capable of delivering as many as two hundred blows per minute. These re-enforce the hand-pressure in the operation of plugging. It is immaterial whether the mechanical plugger is axially in line with the hand-plugger, as the cavity F permits of arranging the machine-mallet at any desired angle with reference to the hand-tool.

The advantages gained by the use of my improvement are the saving of the cost of a large number of expensive points or tools. It also saves the time required for changing these pluggers and points a number of times during each operation. A great saving of time is also effected in feeding the gold to the cavity, as the hand-tool is used for conveying the gold to the cavity of the tooth. Thus a great gain is effected in the operation of plugging teeth, which conduces to the comfort of both the patient and the operator.

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

1. The combination, with a mechanical dental plugger or mallet, of a cup-shaped attachment having an unbroken concaved surface for receiving the ends of hand-tools, substantially as described.

2. As a new article of manufacture, a cup-shaped receiver having an unbroken concaved surface for receiving the ends of hand dental tools, the said receiver being provided with a shank adapted for connection with a mechanical plugger, substantially as described.

JOSEPH L. MEWBORN.

Witnesses:

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JAMES MAYSWELL.