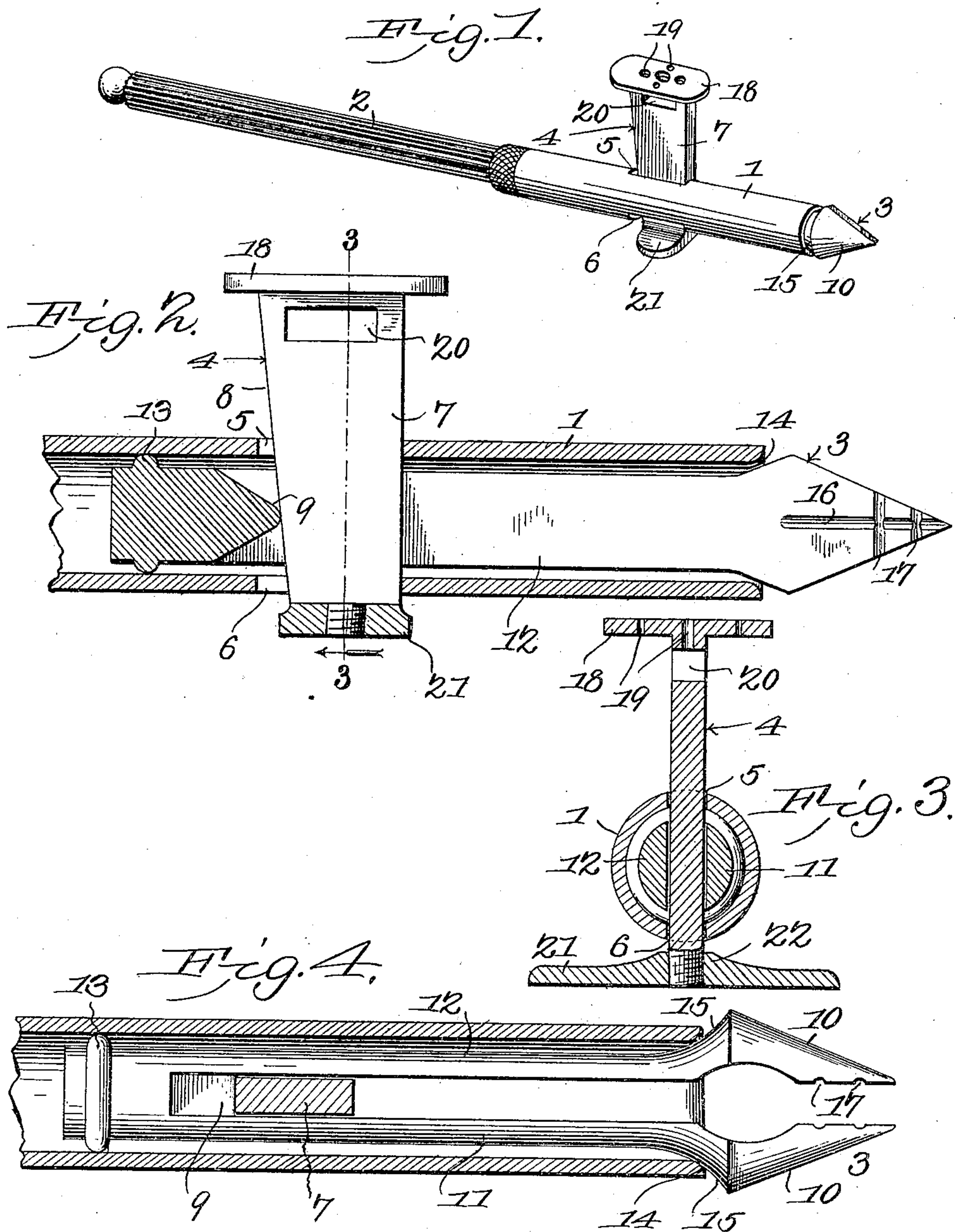


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W. F. BROWN.
JEWELER'S IMPLEMENT.
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UNITED STATES PATENT OFFICE.

WILLIAM FRANKLIN BROWN, OF SAN FRANCISCO, CALIFORNIA.

JEWELER'S IMPLEMENT.

No. 816,777.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed August 16, 1905. Serial No. 274,433.

To all whom it may concern:

Be it known that I, WILLIAM FRANKLIN BROWN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Jeweler's Implement, of which the following is a specification.

This invention relates to a jeweler's implement.

The object of the invention is in a ready and practical manner to combine a pin-vise and a staking-tool in such manner that either may be used to the exclusion of and without interfering with the other and in which the staking-tool shall constitute the means for actuating the vise to cause its jaws to open or close either in releasing or grasping an object.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a combined pin-vise and staking-tool, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view in perspective of the implement. Fig. 2 is a view in vertical longitudinal section through a portion of the implement on an enlarged scale. Fig. 3 is a vertical transverse sectional view taken on the line 3-3, Fig. 1, and looking in the direction of the arrow thereon. Fig. 4 is a view in vertical longitudinal section, taken at right angles to the plane on which Fig. 3 is taken.

The implement embodies a head 1, a handle 2, a vise, (designated generally 3,) and a staking-tool, (designated generally 4.) The head is a tubular structure and may or may not be integral with the handle and is provided with alined slots 5 and 6 to receive the stock 7 of the staking-tool, the latter, as shown in Fig. 2, being wedge-shaped in elevation, the angular or inclined edge 8 of which is adapted to engage the apex of a wedge-shaped abutment 9 of the vise, whereby when movement is imparted to the stock in one direction it will force the jaws 10 of the vise into the head, and thus cause them to clamp an object, and when moved in the opposite direction will operate to open the jaws, and thus release the object. The jaws 10, as shown in Fig. 4, are semicones and are combined with two spaced shanks 11 and 12, between which the stock 7 works, the shanks

being by preference integral with the abutment, although, if preferred, they may be made as separate elements and secured thereto. The abutment is provided with a circumferential guide-flange 13, which engages with the inner walls of the head and serves to hold the shank centered relatively thereto. In order to cause the coaction between the mouth or outer end 14 of the head and the jaws to be such as to clamp upon an object, the jaws are provided with outward-curved shoulders 15, that engage with the mouth of the head, which latter, as shown in Figs. 2 and 4, is rounded to coact with the shoulders. To assist in holding small objects—such as pins, wire, or the like—the opposed faces of the jaws are provided with longitudinal and transverse grooves or seats 16 and 17, respectively.

The stock 7 has combined with it an anvil or table 18, which is by preference integral therewith and is provided with a series of orifices 19, adapted to receive the arbors of balance-wheels when a cylinder is to be removed or the roller-jewel table is to be adjusted or for any other purpose, the stock being provided with a transverse orifice 20 below the table, upon the bottom wall of which the parts removed from the balance-wheel or other elements of the watch-movement may be caught and thence removed. The end of the stock opposite the handle has combined with it a foot 21, which is disposed at right angles to the anvil in order to support the stock in a vertical position when the anvil is being used. The foot may be combined with the stock in any manner, as by providing the former with a threaded stem 22 to engage a threaded orifice in the foot, as clearly shown in Figs. 2 and 3.

The implement herein described while simple in construction will be found of the highest efficiency and durability in use and will in a ready and practical manner subserve the functions of two implements that have heretofore been separate and distinct tools.

Having thus described the invention, what is claimed is—

1. A jeweler's implement embodying a head provided with alined orifices, a vise embodying an abutment and a pair of jaws, and a staking-tool adapted to engage the orifices and the abutment.

2. A jeweler's implement comprising a head provided with alined orifices, a vise disposed within the head and embodying an

abutment and a pair of jaws, and a staking-tool having a stock to engage the abutment and provided with a foot for supporting the staking-tool in vertical position.

5 3. A jeweler's implement embodying a head provided with alined orifices, a vise disposed within the head and embodying an abutment provided with a guide-flange and a pair of jaws, and a staking-tool comprising a
10 stock to engage the abutment, an anvil or table, and a foot combined with the stock.

4. A jeweler's implement embodying a head provided with alined orifices, a vise embodying an abutment and a pair of jaws, and
15 a staking-tool adapted to engage the orifices and having an inclined face to coact with the abutment.

5. A jeweler's implement embodying a head provided with alined orifices, a vise disposed within the head and embodying an abutment provided with a guide-flange and a pair of jaws, and a staking-tool comprising a
20 stock to engage the abutment, an anvil or ta-

ble, and a foot combined with the stock and disposed at right angles to the anvil or table. 25

6. A jeweler's implement embodying a head provided with alined orifices, a vise embodying a wedge-shaped abutment and a pair of jaws, and a staking-tool adapted to engage the orifices and having an inclined
30 face to coact with the apex of the abutment.

7. A jeweler's implement embodying a head provided with alined orifices, a vise embodying an abutment and a pair of jaws, and a staking-tool comprising a stock to engage
35 the wedge-shaped abutment, an anvil or table provided with a plurality of orifices, and a foot.

In testimony that I claim the foregoing as my own I have hereto affixed my signature
40 in the presence of two witnesses.

WILLIAM FRANKLIN BROWN.

Witnesses:

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