

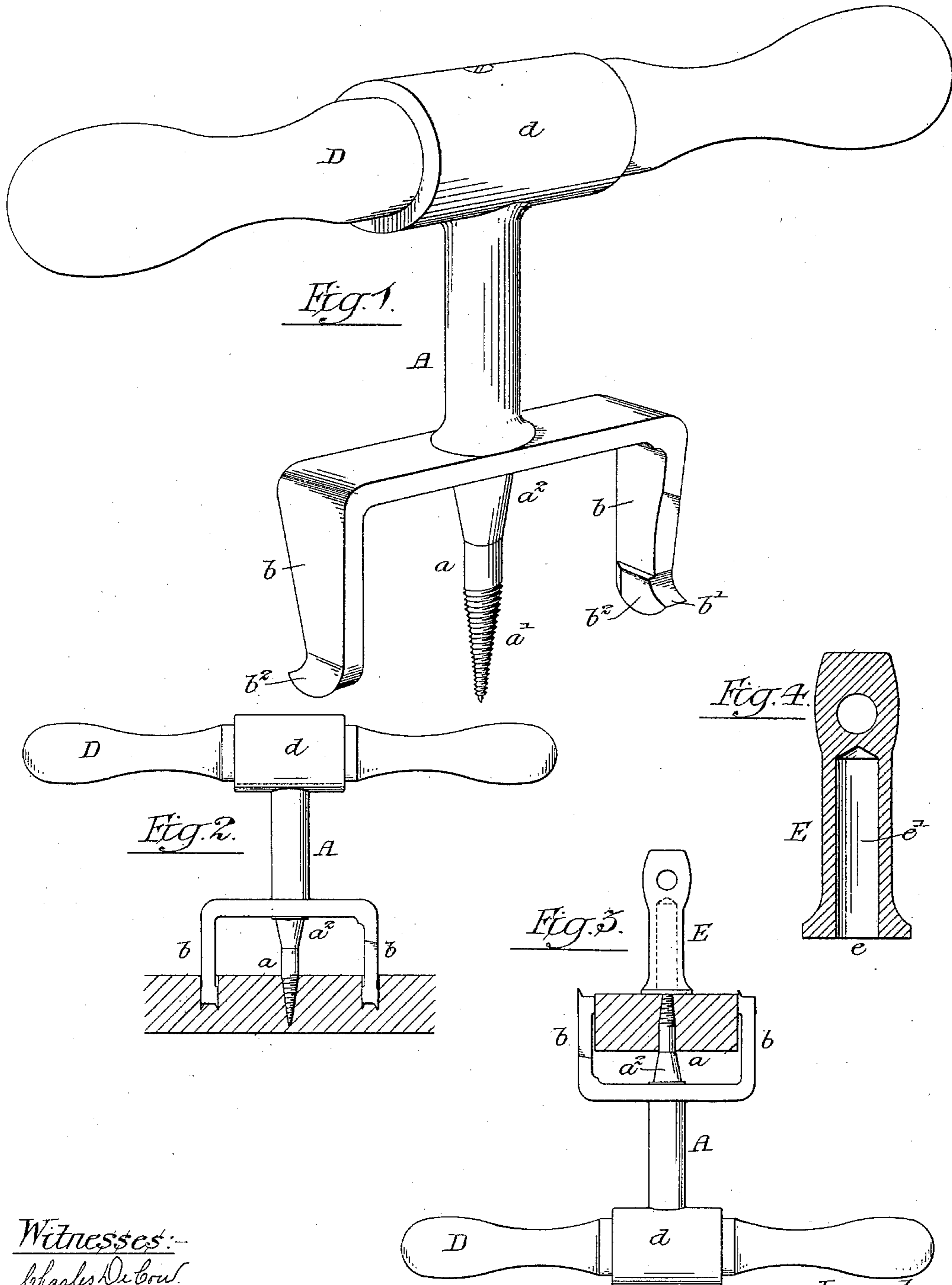
No. 613,132.

Patented Oct. 25, 1898.

J. FELLOWS.
BUNG HOLE BORING TOOL.

(Application filed May 5, 1898.)

(No Model.)



Witnesses:-
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UNITED STATES PATENT OFFICE.

JOSEPH FELLOWS, OF PHILADELPHIA, PENNSYLVANIA.

BUNG-HOLE-BORING TOOL.

SPECIFICATION forming part of Letters Patent No. 613,132, dated October 25, 1898.

Application filed May 5, 1898. Serial No. 679,862. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH FELLOWS, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Bung-Hole-Boring Tools, of which the following is a specification.

One object of my invention is to construct a cheap and effective bung-hole borer which
10 will readily cut a bung-hole in a barrel or other receptacle and which will retain the cut-out portion after it is removed from the barrel.

A further object of the invention is to so construct the retainer that by forcing the cut-
15 out portion down upon it it will be broken asunder, so that it can be readily removed from the tool.

Referring to the accompanying drawings, Figure 1 is a perspective view of my improved
20 bung-hole borer. Fig. 2 is a side view showing the bung-hole borer in action. Fig. 3 is a view showing the bung-hole borer inverted and a tool used to force the cut-out portion down upon the tapered portion of the tool in
25 order to split it, and Fig. 4 is a sectional view of the tool shown in Fig. 3.

A is the stem of my improved bung-hole borer, having a central section *a* tapered at its lower end *a'*, on which is cut a screw-thread.
30 The threads of this section will cut their way into the portion of the barrel head or stave to be removed, so that the portion to be cut out will not drop into the barrel. The shank *a*² of the central section *a* is tapered, as shown,
35 for the purpose of splitting the cut-out portion when forced down upon it by the tool, as shown in Fig. 3.

Extending from each side of the stem is an arm *b*, carrying at its lower edge a cutting-
40 tool consisting of a plow *b'* and a vertical cutter *b*². The cutter *b*² is arranged on the inside of one arm and on the outside of the other arm, so as to make two annular grooves, as shown in Fig. 2. The plow portion re-
45 moves the material between these annular grooves as the bung-hole borer is fed down by the screw of the central section *a*. The upper end of the stem is provided with a head *d*, in which is secured the handle D.

50 The tool E for splitting the cut-out portion

of the head or stave is shown in Fig. 4 and has a flat face *e*, adapted to rest against the cut-out portion, and has a hole *e'* deep enough to receive the central section *a*, and is of such a depth as not to bruise the screw-threads on
55 said section.

In operating the bung-hole borer it is centered over the portion to be cut out. The borer is then turned, so that the central screw-threaded portion *a'* will engage the head or
60 the stave of the barrel. As the borer is turned the cutters *b'* will cut two grooves in the head or stave, and after which the plow-cutters will gradually remove the material between the grooves as the tool is fed down to its work
65 by the central screw. After the cutters have cut their way through the head or stave the bung-hole borer is removed with the cut-out portion attached to the central screw-threaded section. It is difficult to remove this cut-
70 out portion from the bung-hole cutter, as in removing it the fingers are liable to be injured by the cutters, but by making the portion *a*² of the central section A tapered, as shown, and by inverting the bung-hole borer
75 and resting it upon a suitable foundation and placing the tool E over the central section and striking it with a hammer or mallet it will force the cut-out portion down onto the tapered section, which will split the wood so
80 that the cut-out portion can be readily removed from the tool.

I claim as my invention—

1. A bung-hole borer having a stem, arms extending from the stem provided with cut-
85 ters, and a central section having a tapered shank and a screw-threaded end, substantially as described.

2. A bung-hole borer having a stem, a handle, two arms and a central section, said arms
90 being turned parallel with the central section and each having cutters, the central section extending below the arms and having its end tapered and screw-threaded, and having a plain tapered shank, substantially as and for
95 the purpose specified.

3. The combination of a bung-hole borer have one or more cutting-arms, a central pivot-arm having a tapered and screw-threaded end and a tapered shank, a tool having a
100

face adapted to rest upon the cut-out portion
carried by the shank and having a central
opening into which the screw-threaded por-
tion of the bung-hole borer extends when said
5 tool is pressed onto the borer to force the cut-
out portion down upon the tapered shank to
split it, substantially as described.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

JOSEPH FELLOWS.

Witnesses:

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