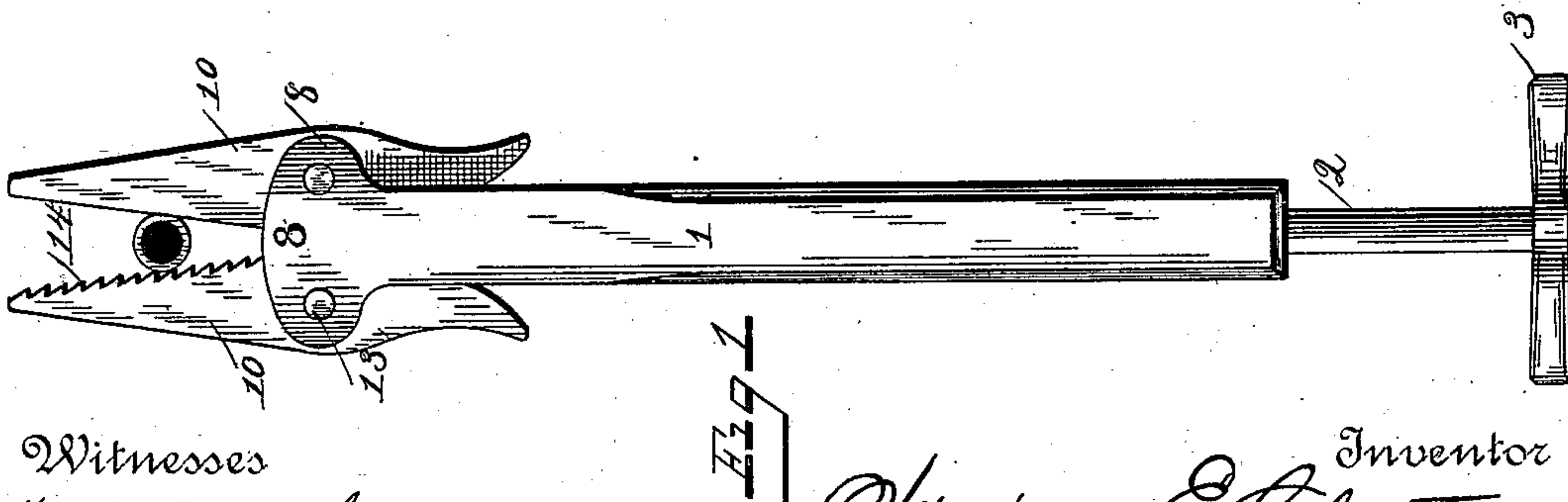
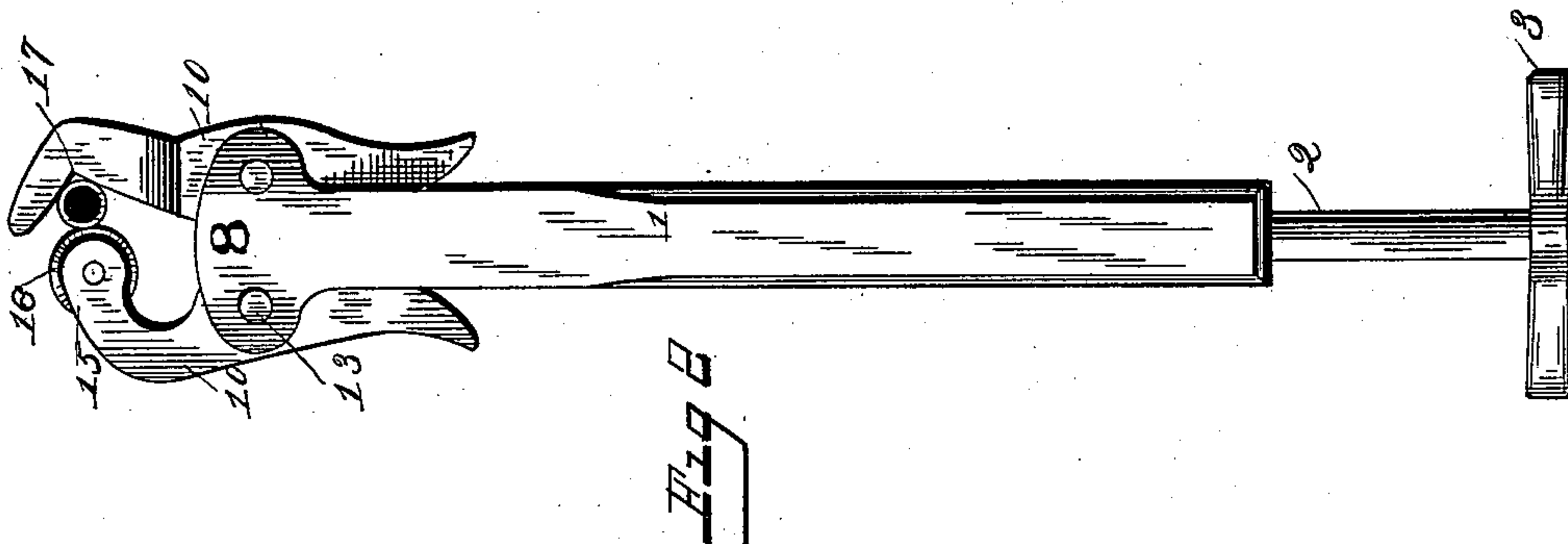
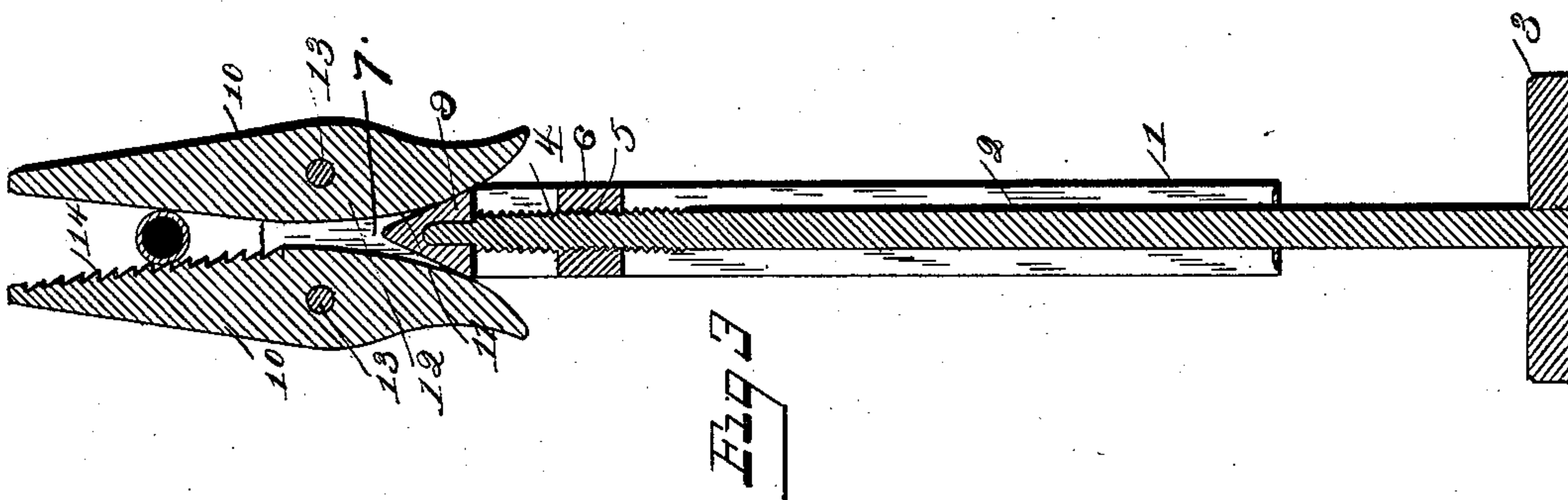
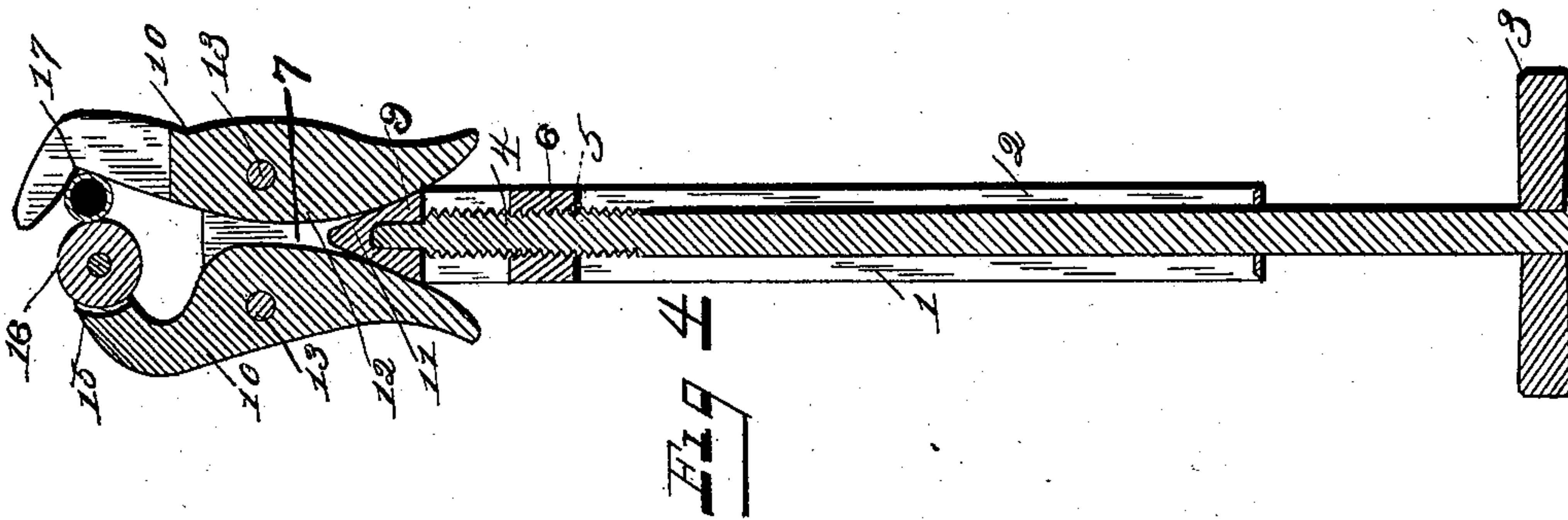


(No Model.)

W. E. CLAYTON.
PIPE WRENCH AND CUTTER.

No. 364,090.

Patented May 31, 1887.



Witnesses
 F. L. Ormand
 Benj. G. Cowf.

Inventor
William C. Clayton,
By his Attorneys
Louis Dwyer & Co.

UNITED STATES PATENT OFFICE.

WILLIAM E. CLAYTON, OF HUNTINGTON, INDIANA.

PIPE WRENCH AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 364,090, dated May 31, 1887.

Application filed March 23, 1887. Serial No. 232,072. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. CLAYTON, a citizen of the United States, and a resident of Huntington, in the county of Huntington and State of Indiana, have invented certain new and useful Improvements in Pipe Wrenches and Cutters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved pipe wrench and cutter, showing it used as a wrench. Fig. 2 is a similar view of the device used as a pipe-cutter. Fig. 3 is a longitudinal sectional view of the device shown in Fig. 1, and Fig. 4 is a similar view of the device shown in Fig. 2.

Similar numerals of reference indicate corresponding parts in all the figures.

My invention has relation to combined pipe wrenches and cutters; and it consists in the improved construction and combination of parts of such a tool having removable jaws, whereby the tool may be converted into a pipe wrench or cutter, as desired, as hereinafter more fully described and claimed.

In the accompanying drawings, the numeral 1 indicates the handle of the tool, which is formed in the shape of a long box having a rod, 2, journaled in the end of the handle and provided with a suitable cross-handle, 3, at that end, while the inner screw-threaded end, 4, of the rod fits and turns in a female threaded perforation, 5, in a cross-piece, 6, near the inner end of the handle. The inner end of the handle is formed with two lips or side pieces, 7, having cross-heads 8 at their ends, and a wedge-shaped block, 9, slides between these lips, having the end of the screw-threaded rod journaled in the center of its base and suitably secured in the same.

The jaws 10 of the wrench or cutter are formed with outwardly-curved edges 11 upon their inner portions, 12, the sides of the wedge-shaped block bearing against the said curved edges, and the jaws are pivoted upon removable bolts or pins 13, passing through the ends of the cross-heads and through the jaws.

The jaws of the wrench are preferably pointed, and one or both of the jaws is provided with a serrated inner edge, 14, for the purpose of grasping the pipe firmly, and it will be seen that the jaws may be straddled over the pipe and thereupon be forced together upon the same by screwing the wedge-shaped block forward between the inner ends of the jaws, spreading the said ends.

The jaws of the cutter have the same outwardly-curved inner ends as the jaws of the wrench, and are pivoted in the same manner; but the outer end, 15, of one of the jaws is curved inward and has a cutter-disk, 16, journaled in its slotted or bifurcated end, while the other jaw has its end bifurcated and widely spread and thereupon hooked inward, as shown at 17, this bifurcated end serving to hold the pipe to be cut, while the cutter-disk of the other jaw may be carried around the pipe, cutting into the same.

It will be seen that the cutter-disk may be fed into the pipe as it cuts its way into the same by screwing the wedge-shaped block forward, spreading the inner diverging ends of the jaws. It will also be seen that by having the diverging inner ends of the jaws bearing against the sides of the wedge-shaped block the wrench or cutter may be fitted to different sizes of pipes, and a considerable grip may be obtained upon the pipe by the combined action of the screw and the wedge.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a pipe wrench and cutter, the combination of a handle having two lips or side pieces at its inner end formed with cross-heads, a rod journaled longitudinally in the handle and having its inner screw-threaded end fitted and turning in a threaded perforation in the handle and provided with a wedge-shaped block at its inner end sliding between the lips or side pieces, and two jaws pivoted upon pins between the ends of the cross-heads and having their inner diverging ends bearing with their edges against the sides of the wedge-shaped block, as and for the purpose shown and set forth.

2. In a pipe-cutter, the combination of a handle having two lips or side pieces formed

at its inner end provided with cross-heads at
their ends, a rod journaled longitudinally in
the handle and having its inner screw-threaded
end fitted and turning in a screw-threaded per-
5 foration in the handle, a wedge-shaped block
having the inner end of the screw-threaded
rod journaled in its base and sliding between
the lips, a jaw pivoted upon a bolt between
one end of the cross-heads and formed with
10 an outwardly-curved inner end and with
an inwardly-bent outer end having a cutter-
disk journaled in its bifurcated end, and a

jaw pivoted between the other ends of the
cross-heads upon a bolt and having an out-
wardly-curved inner end and a widely-bifur- 15
cated outer end bent inward to form two hooks,
as and for the purpose shown and set forth.

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

WILLIAM E. CLAYTON.

Witnesses:

WILLIAM A. BRANYAN,
MAURICE L. SPENCER.