No. 778,753. PATENTED DEC. 27, 1904.

# B. H. LINK & C. S. BRENHOLTS.

# COMBINED PIPE REAMER AND THREAD CUTTER.

APPLICATION FILED AUG. 19, 1902. RENEWED MAY 11, 1904.

Fig 1

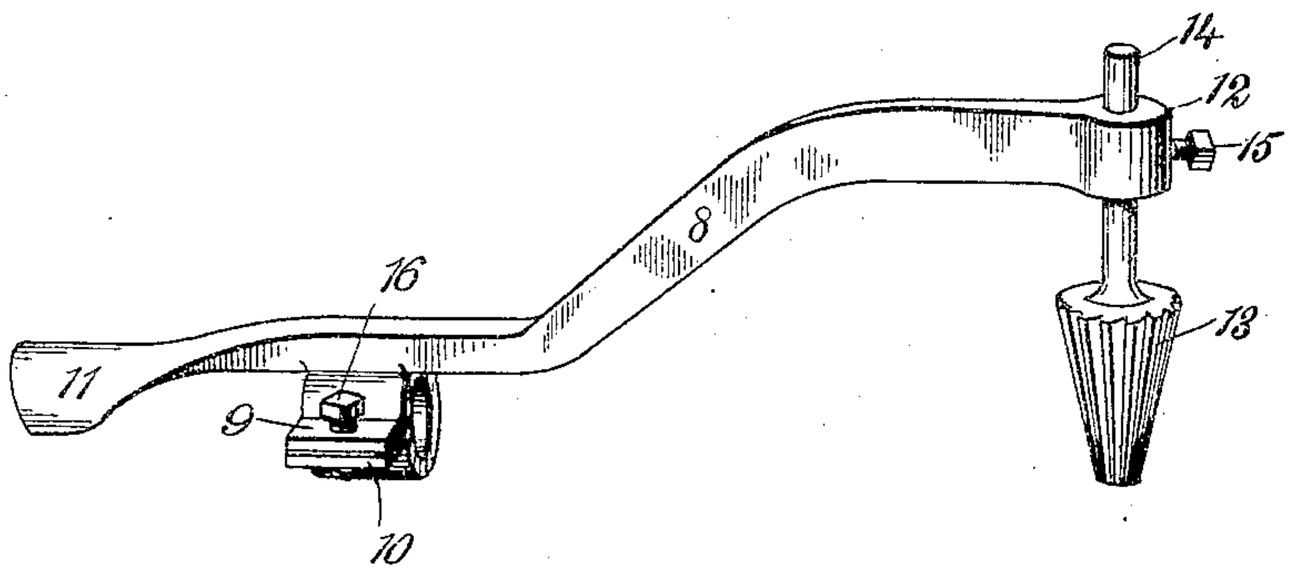
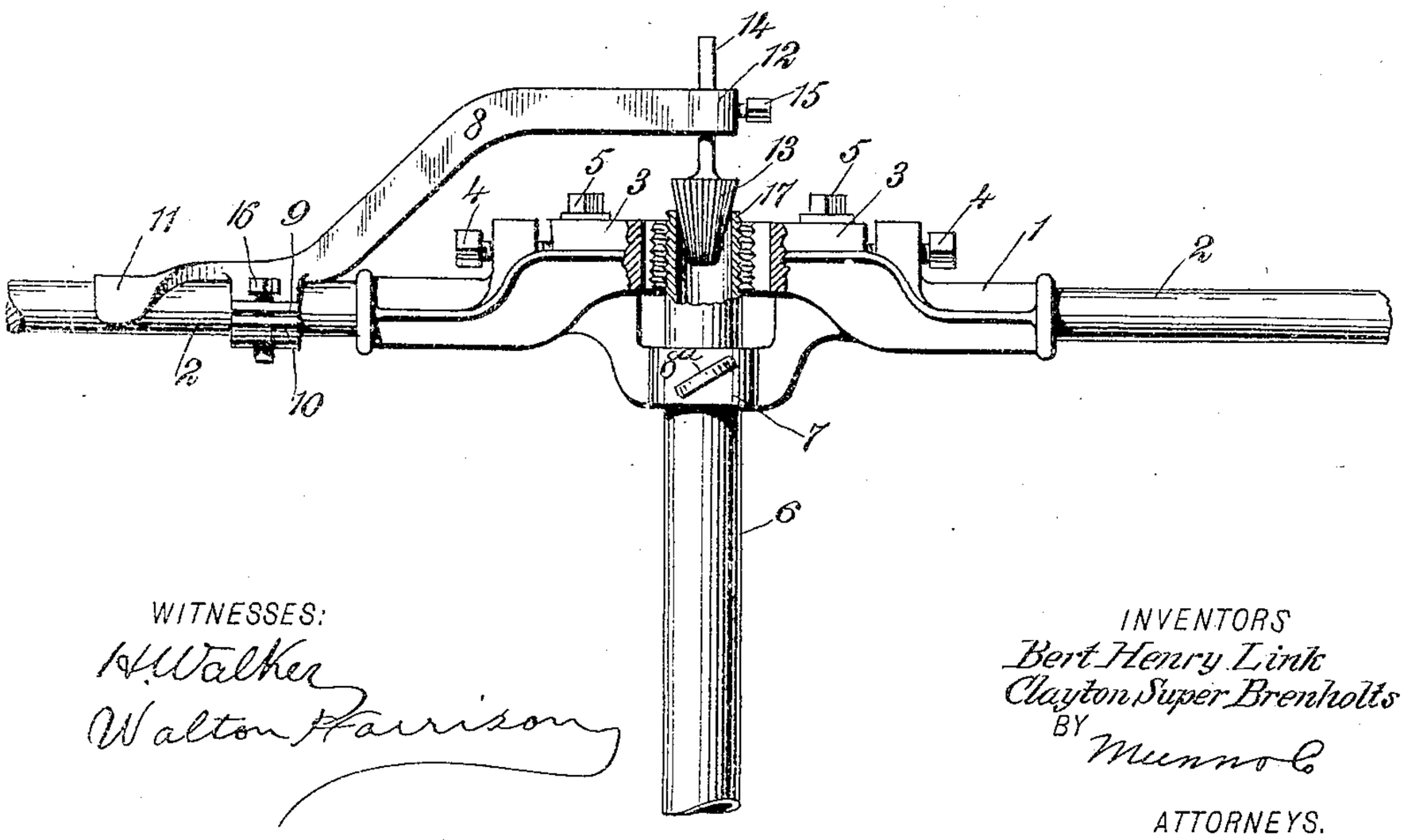



Fig 2




WITNESSES:
A. H. Walker
Walton Harrison

INVENTORS
Bert Henry Link
Clayton Super Brenholts
BY
Munn & Co
ATTORNEYS.

No. 778,753. Patented December 27, 1904.

# UNITED STATES PATENT OFFICE.

BERT HENRY LINK AND CLAYTON SUPER BRENHOLTS, OF OLEAN, NEW YORK.

## COMBINED PIPE-REAMER AND THREAD-CUTTER.

SPECIFICATION forming part of Letters Patent No. 778,753, dated December 27, 1904.

Application filed August 19, 1902. Renewed May 11, 1904. Serial No. 207,369.

*To all whom it may concern:*

Be it known that we, BERT HENRY LINK and CLAYTON SUPER BRENHOLTS, citizens of the United States, and residents of Olean, in the county of Cattaraugus and State of New York, have invented new and useful Improvements in a Combined Pipe-Reamer and Thread-Cutter, of which the following is a full, clear, and exact description.

Our invention relates to a device for simultaneously cutting thread upon a pipe and reaming the pipe interiorly.

Where a pipe is severed by means of a pipe-cutter, there is usually left upon the inner edge of each severed portion a jagged flange or rim of metal, which should be removed. Again, it is often desirable to render the interior of the pipe bell-shaped and at the same time to thread the pipe exteriorly. These two operations—to wit, the cutting of thread upon the exterior of the pipe and the removing of the interior of the pipe adjacent to the thread—are closely related to each other and are generally performed separately.

The more particular object of our invention is to produce a neat, compact, and simple device which will enable the two operations to be performed simultaneously.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of the reaming-cutter for engaging the interior of a pipe and the arm for supporting said cutter, and Fig. 2 is a fragmentary plan view showing the arm and cutter as applied to an ordinary die-stock.

A die-stock 1 of ordinary construction is provided with handles 2 and with movable dies 3, adjustable concentrically by means of bolts 4 and adjustable to and from the body of the die-stock by means of bolts 5 in the usual manner. A pipe to be threaded and reamed is shown at 6. A bushing-sleeve 7 is provided with a set-screw $8^a$ for the purpose of centering the die-stock. An arm 8, provided with clamping members 9 10 of semicylindrical form and with a spoon-shaped rest 11, is mounted upon one of the handles 2, as shown more particularly in Fig. 2. The outer or free end of this arm 8 is provided with a socket 12 for the purpose of supporting a reaming-cutter 13 of substantially conical form and provided with a stem 14. The stem is held in place and is also adjusted by means of a set-screw 15. The arm 8 is adjusted in place and is held in the adjusted position by means of a set-screw 16.

Our invention is used as follows: The die-stock is placed upon the end of the pipe 6 in the usual manner. The dies 3 are adjusted by the bolts 4 and 5. The stem 14 is secured by means of the set-screw 15 and is adjusted in the position indicated in Fig. 2. The die-stock is now rotated by means of the handles 2, thus causing the dies to cut the thread 17. The cutting of the thread causes the die-stock to travel slowly in the longitudinal direction of the pipe 6, and this progressive motion of the die-stock forces the reaming-cutter 13 into the end of the pipe. The result is that as the screw-thread is cut upon the exterior of the pipe the interior of the pipe is reamed to any desired extent. Of course it is a mere matter of adjustment whether the reamer be set so as merely to clear away the jagged edges of the pipe caused by the severance of the same by means of a pipe-cutter or whether the reamer is extended a sufficient distance into the pipe to render the interior bell-shaped.

Our device admits of various uses which will readily suggest themselves to persons skilled in the art to which it relates. It can be used in many different kinds of thread-cutting machines as well as in die-stocks.

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

A reaming attachment for thread-cutters,

consisting of a bent arm provided with a socket at one end and with a clamp adjacent to its other end for securing it to a handle of the cutter, the end of the arm beyond the clamp being curved to fit upon the handle, and a cutting-tool having its stem adjustably secured in the socket of the arm.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

BERT HENRY LINK.
CLAYTON SUPER BRENHOLTS.

Witnesses:
C. S. DWINELLS,
F. J. SHAFFER.