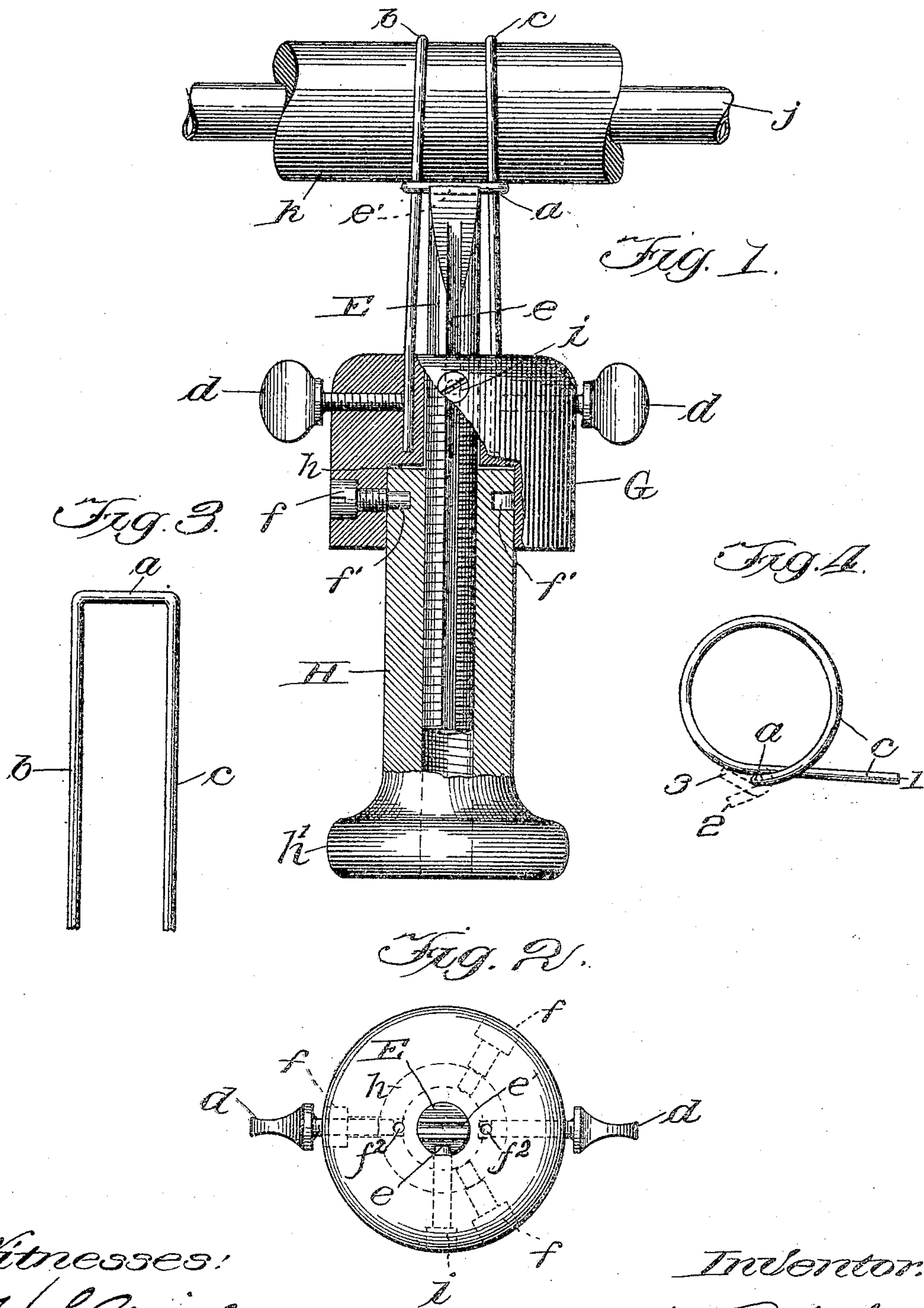


No. 797,865.

PATENTED AUG. 22, 1905.

A. J. NOVACHESKY.  
TOOL FOR WIRE BINDING HOSE TO WATER PIPES.  
APPLICATION FILED JAN. 25, 1905.



Witnesses:

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# UNITED STATES PATENT OFFICE.

ANTON J. NOVACHESKY, OF CHICAGO, ILLINOIS.

## TOOL FOR WIRE-BINDING HOSE TO WATER-PIPES.

No. 797,865.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed January 25, 1905. Serial No. 242,676.

*To all whom it may concern:*

Be it known that I, ANTON J. NOVACHESKY, a citizen of the United States, residing in Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Tools for Wire-Binding Hose to Water-Pipes, of which the following is a full, clear, and correct description, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows my said device in elevation, partly in section, holding a piece of work ready to be completed. Fig. 2 shows a plan view of the top end of the machine. Fig. 3 shows a piece of wire formed into shape representing a square-topped hair-pin ready to be applied to its work. Fig. 4 shows the wire shown in Fig. 3 looped into its final condition, showing its ends in their three successive and final positions.

The object of my invention is to produce a tool wherewith hose may be bound tightly to water-pipe which may be worked by one man in a brief time and more perfectly than it could be done by two men with ordinary tools. To attain said end, I construct my said new tool in substantially the following manner, namely: I thread a round rod E of about half an inch in diameter and four or five inches long and pass it freely through a cylindrical head G, which is smooth-bored axially and provided with a cylindrical chamber h, axially coincident with said bore and in about the proportions shown, and into said chamber is passed a rotatable handle H, bored and threaded axially to said threaded rod E. On said handle and within said chamber h is an annular groove f', into which pass the smooth ends of two or more screws f, threaded into the head G, which connect the handle H and head G, so that one may rotate on the other.

Near the upper end of the head G are a pair of thumb-screws d, which pass into holes f<sup>2</sup> axially parallel to the axis of the head G, and they receive their wire ends b c, which are held fast by said thumb-screws. Any other suitable means, however, may be employed to hold said wire ends.

The upper end of the rod E is beveled from

opposite sides to near a central end groove e', which is adapted to receive the transverse member a of the hair-pin-shaped wire a b c, and there is a longitudinal groove e through the entire length of the rod E, in which runs the smooth end of a screw i, which is threaded in the head G and which serves to hold the rod E from turning when the handle H is turned. In some cases the transverse wire element a in the groove e' will be sufficient to hold the rod E from rotation, and its groove e' and screw i may be dispensed with.

To use my said machine, I form well-annealed wire into the parallelogram or hair-pin form shown in Fig. 3, with members b and c of suitable length, and then bend it around the hose k, connected to the pipe j, and pass each end b c within the cross-bar or part a, as shown in Figs. 1 and 4, and pass said ends b c after being cut to proper length into the holes f<sup>2</sup> and bind them firmly with the screws d, having first laid the member a into the groove e' on the end of the rod E, and then, all being ready, turn head h' so as to drive said rod against the cross-bar a until every part of the wire surrounding the hose k is suitably strained. I then cause the entire instrument to rotate on the cross-bar a and so as to bring each wire end from its position indicated at 1 to that indicated at 2, thus forming a hook around a and holding it securely in its position. At that point the wire ends are cut off short, as shown at 2, Fig. 4, after which they are closed down onto the hose, as shown at 3, Fig. 4, whereby the operation of my said device is completed.

What I claim is—

The combination with an axially-bored head provided with means to hold wire, and a chamber, a handle in said chamber and means to rotatably connect said handle and head, and a threaded rod provided with grooves, in said handle, said rod, handle, head and chamber, having coincident axes.

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Witnesses:

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