

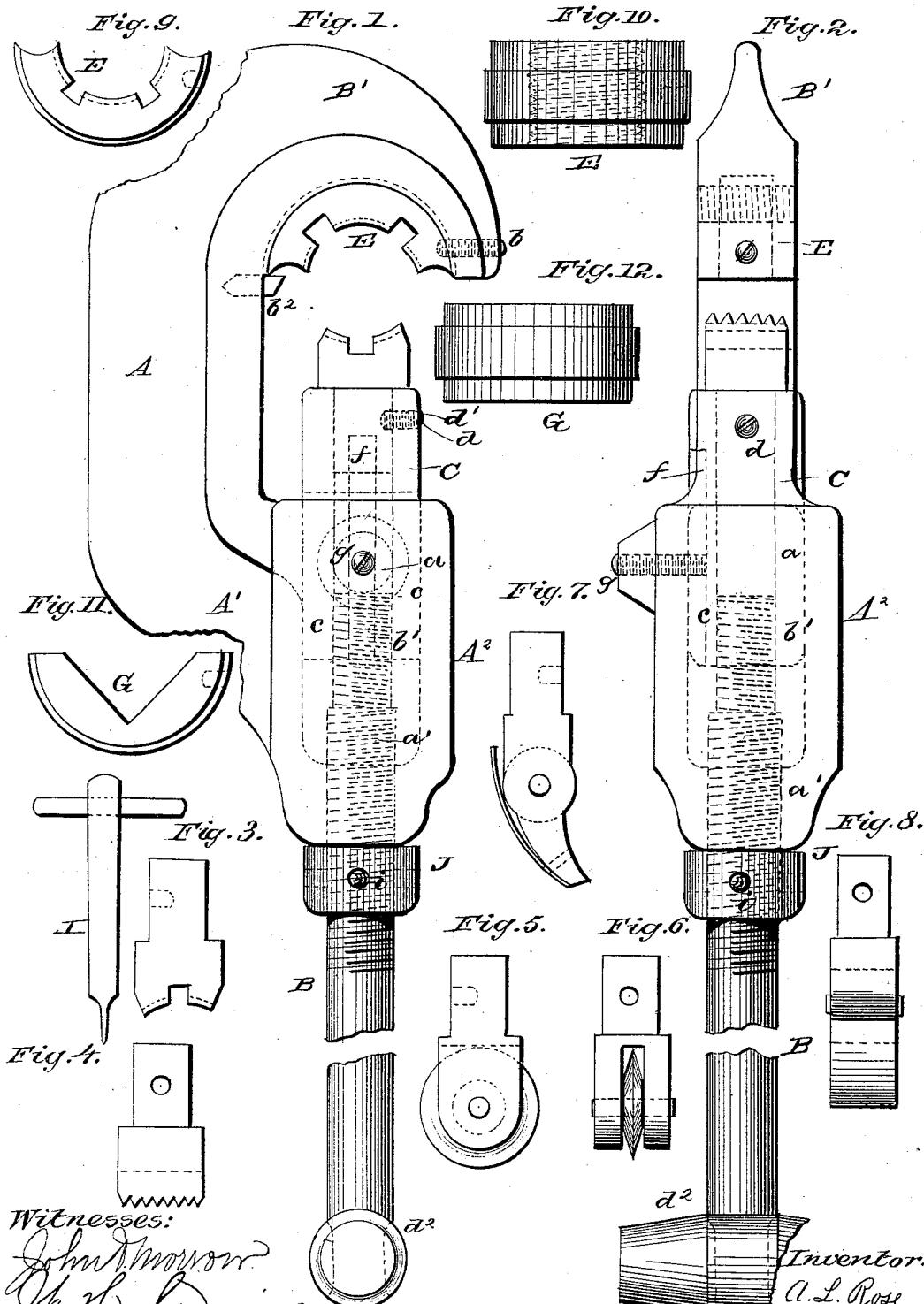
(Model.)

A. L. ROSE.

PIPE FITTING AND THREADING MACHINE.

No. 284,904.

Patented Sept. 11, 1883.



Witnesses:

John Moron
W. H. Lanning

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UNITED STATES PATENT OFFICE.

ANDREW L. ROSE, OF TORRINGTON, CONNECTICUT.

PIPE FITTING AND THREADING MACHINE.

SPECIFICATION forming part of Letters Patent No. 284,904, dated September 11, 1883.

Application filed February 8, 1883. (Model.)

To all whom it may concern:

Be it known that I, ANDREW L. ROSE, a subject of the King of Sweden, residing in Torrington, in the county of Litchfield, State of Connecticut, in the United States of America, have invented certain new and useful Improvements in Pipe Fitting and Threading Machines; and I hereby declare that the following is a full, clear, and exact description 5 of the construction and operation of the invention, reference being had to the accompanying drawings, in which—

Figure 1 is a side view, the screw-threads being shown in dotted lines. Fig. 2 is a plan view, the screw-threads being shown in dotted lines. Figs. 3, 4, 5, 6, 9, 10, 11, and 12 are detail views of the threading and cutting tools; and Figs. 7 and 8 are detail views of the wrench, the tools shown in the detail views being in- 15 interchangeable in the socketed sleeve.

This invention has relation to pipe fitting and threading machines; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim appended. 20

Referring by letter to the accompanying drawings, A designates the body of the machine, the rear arm, A', of which carries a sleeve or bearing, A'', the rear portion of which 25 is decreased in size, and is internally threaded at a, to form a threaded bearing for the enlarged portion of the operating-rod B, the enlarged portion a' of this operating-rod B being provided with a right-hand thread, while 30 the forward portion, b', is smaller, and is provided with a left-hand thread to fit the threaded aperture c in a socketed sleeve, C, in order that when the operating-rod B is moved by 35 turning its handle d' the sleeve C will be projected when the handle is turned to the right, and will be retracted within the sleeve A'' when the handle is turned to the left to adjust 40 the socketed sleeve C, which carries the interchangeable cutting and threading tools or dies, or wrench, as the case may be. Thus it will 45 be seen that when the rod B, carrying the right-hand thread, is screwed up in its threaded bearing, that portion carrying the left-hand thread will simultaneously engage the threads 50 of the sleeve C and drive the same forward at

a rapid motion. The forward end, B', of the body A is curved upwardly and rearwardly, as shown, and is provided with a set-screw, b, at its upper portion, and a shoulder, b'', almost vertically beneath the bearing for the 55 set-screw b in its lower portion, against which the threading or cutting tools E and G abut, and are held in place when the tool is to be used. The socketed sleeve C has a perforation, d', through which a screw, d, is passed 60 into a seat in the stem of the cutter or threading device, or wrench, which occupies the socket in the sleeve C, and a longitudinal slot, f, is made at a point ninety degrees distant from this threaded perforation d' in the face 65 of the sleeve C, to receive the point of a guide-screw, g, which permits a longitudinal motion of the sleeve C, but prevents a rotary motion of the same in its bearing A''. A threaded nut, J, is screwed upon the shaft B, in rear of the 70 sleeve A'', and is designed to regulate the cutter or threader to pipes of different sizes by turning it to and fro upon the shaft B and securing it in place, when the adjustment has been reached, by a set-screw, i.

As before stated, the threading-tools, cutting-tools, and wrench are interchangeable, and the sleeve C is fed forward and backward by the left-hand screw in the direction that the right-hand screw is turned. 75

I designates a screw-driver, having a cross-pin for turning the nut J, which has perforations for its reception, the driver itself being used to remove and insert the screws. 80

Having thus fully described my invention, 85 what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the body A, having the sleeve A'', threaded at its rear end, the curved portion B', having the shoulder b'', and the set-screw b, of the operating-rod B, having the right-hand-threaded portion a' and the left-hand-threaded portion b', the socketed sleeve C, having slot f, perforation d', set-screws d g, and the adjusting-nut J i, substantially as specified. 90

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Witnesses:

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