(No Model.)

J. F. MALLINCKRODT.

MACHINE FOR INSERTING COUPLINGS INTO HOSE.

No. 331,147. Patented Nov. 24, 1885.

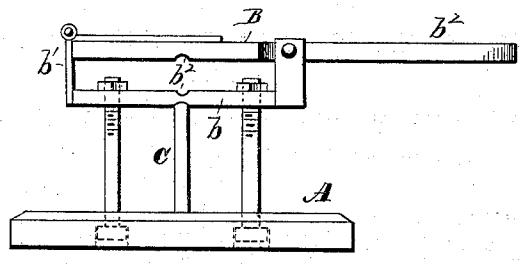


Fig. 2.

Fig. 1.

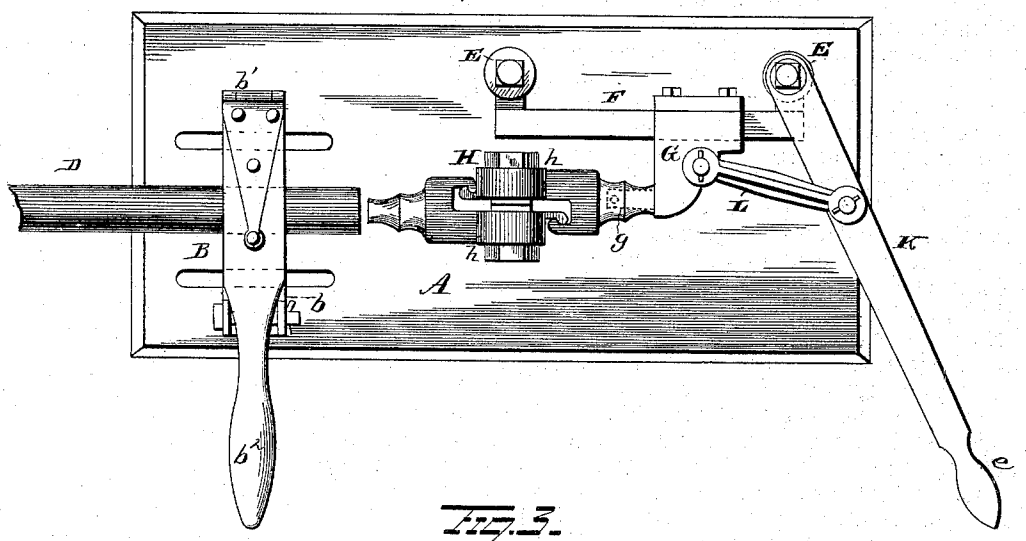
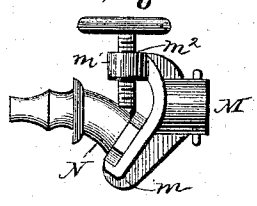


Fig. 3.



WITNESSES

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JOHN F. MALLINCKRODT, OF ST. LOUIS, MISSOURI.

MACHINE FOR INSERTING COUPLINGS INTO HOSE.

SPECIFICATION forming part of Letters Patent No. 331,147, dated November 24, 1885.

Application filed November 8, 1884. Serial No. 147,441. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. MALLINCKRODT, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Machines for Inserting Goose-Necks or Couplings into Hose; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in machines for inserting goose-necks or couplings into hose, and more particularly to an improvement in Letters Patent No. 243,589, granted to me June 28, 1881, the object of my invention being to provide a machine of small initial cost which shall execute its work rapidly and effectively, and one which may be operated with slight expenditure of strength.

With these ends in view my invention consists in certain features of construction and combinations of parts, as will hereinafter be described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of my machine in plan. Fig. 2 is an end view, and Fig. 3 is a detached view.

A represents the bed of the machine, and is supported in any suitable manner at such a height as to bring the machine proper at a convenient height for the operator. A clamp consisting of a stationary under jaw, *b*, and a movable upper jaw, B, hinged to *b* at *b'*, is supported on a block or post, C, attached to the table-bed A. The upper jaw of the clamp terminates in a handle, b^2, and both jaws are provided with recesses or grooves b^3, located a short distance from the hinged ends of the jaws, adapted to receive and tightly hold the hose D. The faces of the grooves b^3 may be serrated or lined with some material which will afford a strong frictional contact, or they may be constructed in any other approved manner than those mentioned, the object being to hold the end of the hose therein against a longitudinally-sliding motion.

Two posts, E, are firmly secured to the table-bed, and are adapted to support a guide or way, F, at a height corresponding with the clamped end of the hose D. A block, G, is fitted to slide on the way F, and is provided at its forward portion with a plug, *g*, adapted to fit within one of the coupling-sections *h*. The plug *g* extends toward and is in a line with the held end of the hose, and when the block G is at or near the outer end of the guide F is distant from the said held end of the hose about the length of the coupling H. The coupling H, here shown consisting of the sections *h*, is one form of the Westinghouse coupling, for the attachment of which to the hose my machine is particularly adapted. An operating-lever, K, is pivotally secured to the outer post E, and terminates in a handle, *e*. A link, L, connects the lever K with the sliding block G, and is pivotally secured to each.

Fig. 3 represents a goose-neck holder, consisting of the sleeve M, adapted to fit on the plug *g*, an oblique projection, *m*, adapted to receive the end of the goose-neck N, and a projection, *m'*, provided with a threaded perforation, m^2, adapted to receive the set-screw O. The latter engages the end of the goose-neck and holds it securely on its seat *m*, while the portion *n* of the said goose-neck occupies a position in line with the plug *g* and the held end of the hose.

The operator places a coupling, H, for example, on the plug *g*, as shown in Fig. 1, and the end of the hose which is to receive one section of the coupling in the clamp. He then holds the hose snugly in the clamp by the pressure of the left hand, and with his right hand draws the lever K toward the clamp, thereby sliding the block G on the guide F and forcing the section *h* into the end of the hose D.

In my Patent No. 243,589, previously referred to, the coupling to be inserted into the hose is locked to a screw-rod and inserted by imparting a rotary motion to said rod. By the improvement shown in my present device I can secure the couplings to the hose in a much shorter space of time than could possibly be done with the patented device.

It is evident that slight changes may be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention; hence I do not wish to limit myself strictly to the construction herein set forth; but,

Having fully described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a clamp constructed to hold one end of a hose and a sliding block located in a line with the clamp and adapted to support a coupling or goose-neck, of an operating-lever for moving the sliding block toward and away from the clamp, substantially as set forth.

2. The combination, with a clamp consisting, essentially, of a stationary section and a hinged section, of a sliding coupling or goose-neck support located in a line with said clamp, and a lever for operating said sliding block, the parts being arranged, substantially as described, to enable the clamp to be operated by one hand and the sliding block by the other.

3. The combination, with a clamp, of a guide or way secured to two upright posts, a block adapted to slide on the way and provided with a plug or projection adapted to receive a coupling-section and goose-neck holder, and an operating-lever pivotally secured to one of said upright posts and connected with the sliding block by a link, substantially as set forth.

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

JOHN F. MALLINCKRODT.

Witnesses:
JOHN M. GOEHRING,
R. W. MILLER.