

T. WESTON.

Machines for Encasing Metal Rods and Tubes.

No. 149,274.

Patented March 31, 1874.

Fig. 1.

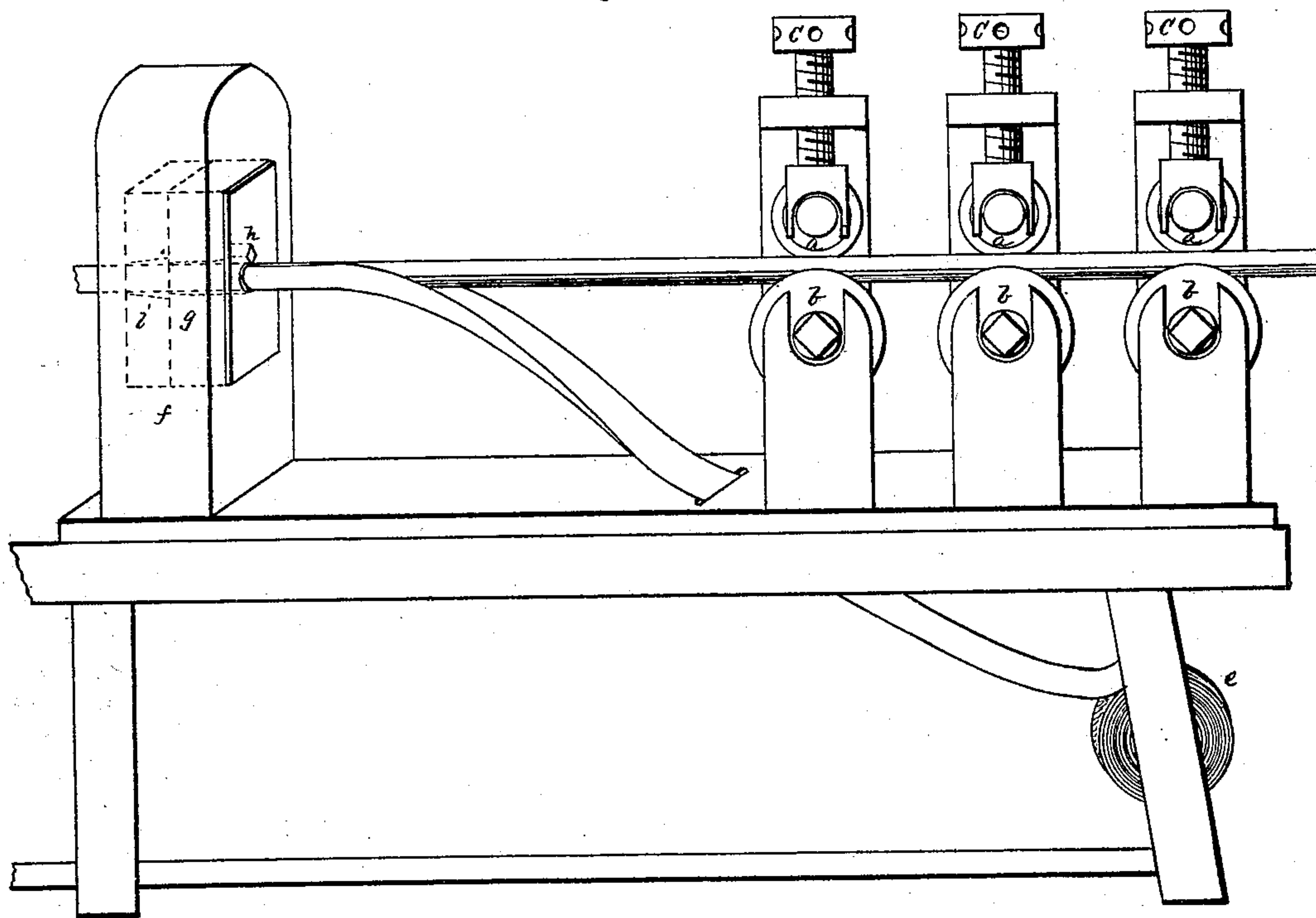


Fig. 2.

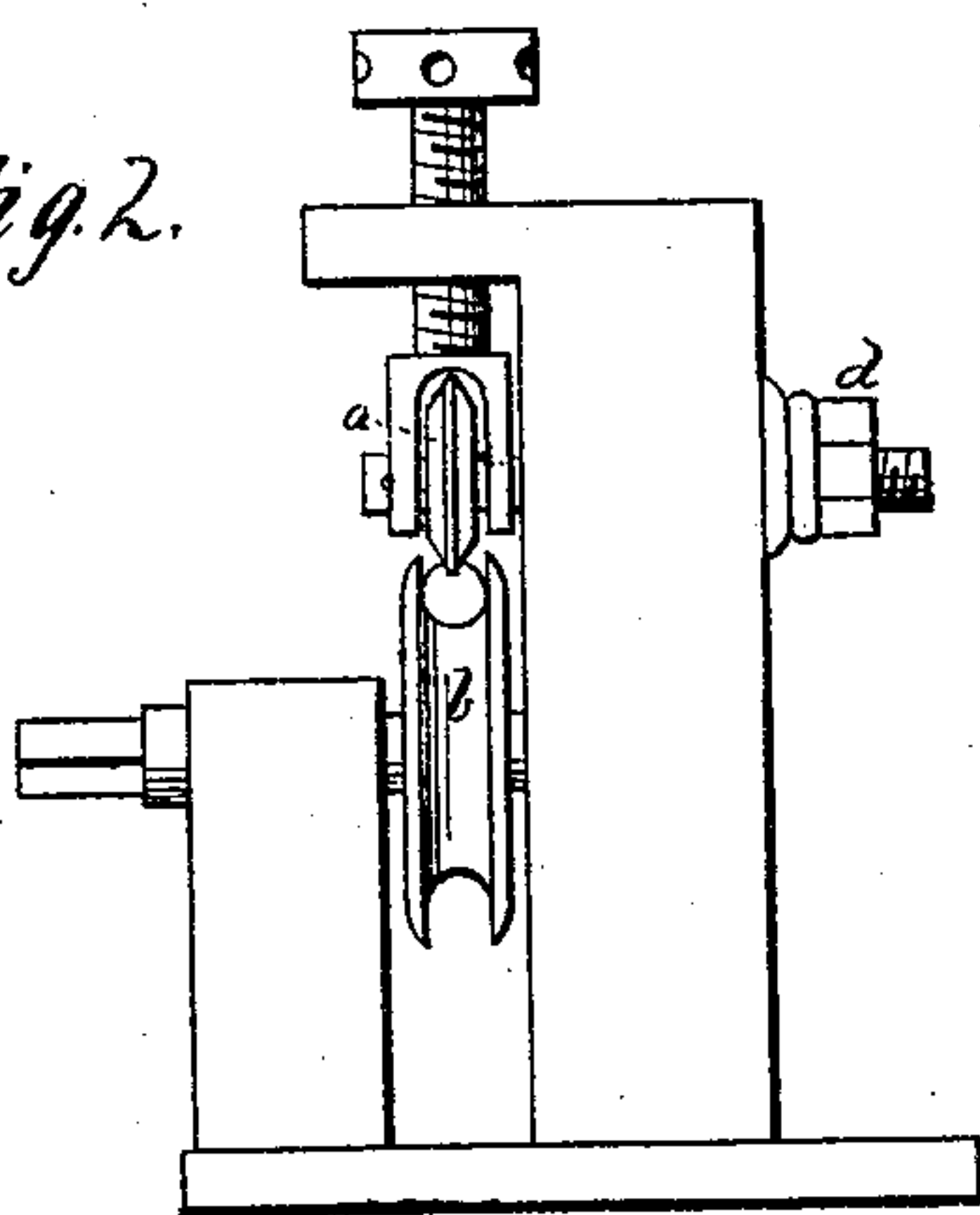


Fig. 3.



Witnesses.

Wm M Gooding
D H Crawford

Inventor.

Thomas Weston

UNITED STATES PATENT OFFICE.

THOMAS WESTON, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN MACHINES FOR INCASING METAL RODS AND TUBES.

Specification forming part of Letters Patent No. **149,274**, dated March 31, 1874; application filed March 24, 1874.

To all whom it may concern:

Be it known that I, THOMAS WESTON, of Newark, New Jersey, have invented certain improved means of preparing and incasing solid or hollow metallic rods or rodding with thin sheet metal, in such a way as to make a tight fit and a close, secure joining without cementation, of which the following is a specification:

In the accompanying drawings, Figure 1 is a front view of the rollers and dies as constructed and arranged for the process. Fig. 2 is a side view of a roller-stand; and Fig. 3 is a section of a full-sized rod and casing, and the top or projection for turning in the edges of the casing.

Round or other shaped rods or coils of large rolled wire are used, being drawn between the thin edge rollers *a* and the hollow edged rollers *b*, the relative distance required to groove or indent the rodding for reception of the turned-in edges of the thin incasing-metal being adjusted by the screws *c*, and secured by the back nuts *d*. The end of the rod or rodding is made small enough to pass through the shaping and finishing dies, with the end of the incasing loose, but close upon it. The commencing the groove by the rollers is effected

by a crank placed on the ends of the shafts of the lower rolls *b*. A spool, *e*, with the thin incasing sheet metal of the requisite width wound upon it, turns on bearings on the frame under the bench. The casing, passing through the bench, is guided by the hand of the operator, and by the hand, or any other suitable means, is held so as to have the edges meet directly over the middle of the indentation in the rod. Two or more dies, as the sizes of the rods to be incased may require, are placed, as shown, in the head-block *f*, Fig. 1; the die *g* adapting, by means of the projection *h*, the incasing to the rod, which incasing is, by the finishing-die *i*, pressed into the groove so tightly and solidly as to cause the edges at the joining to be scarcely perceptible, with no tendency to opening.

What I claim, and desire to secure, is—

The rollers *a* and *b*, the dies *g* and *i*, and the projection *h*, constructed, arranged, and combined as and for the purpose specified and shown.

THOMAS WESTON.

Attest:

W. M. GOODING,
D. H. CRAWFORD.