The specification in this patent
The specification in this patent
is not in print.

Sheet 1 - 2 Sheets.

I. Mc Carty,

Making Metal Tubing,

No. 10478.

Patented Jan. 31, 1854.

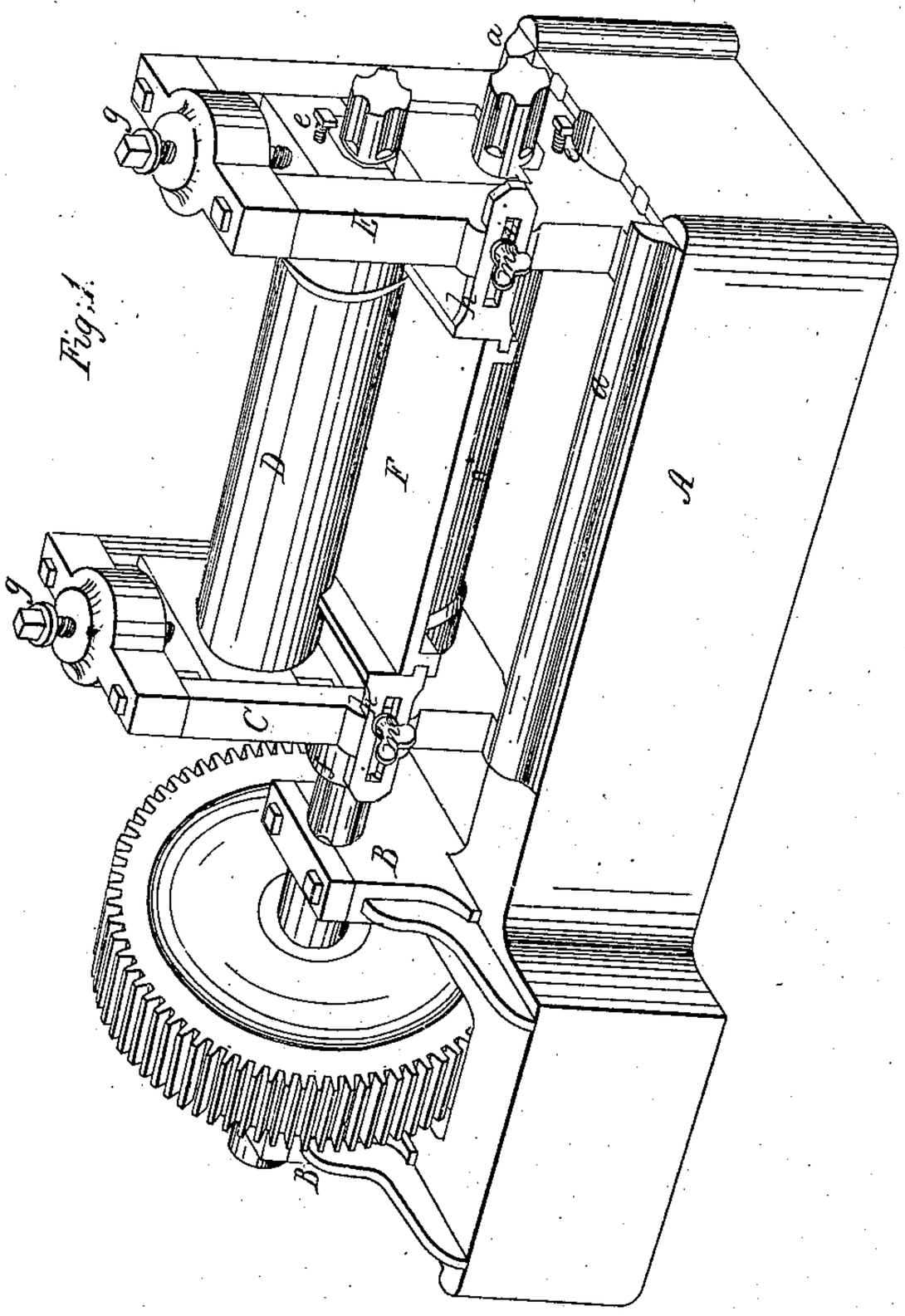

Fig. 1.

Sheet 2 - 2 Sheets.

J. Mc Carty,

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Fig. 2.

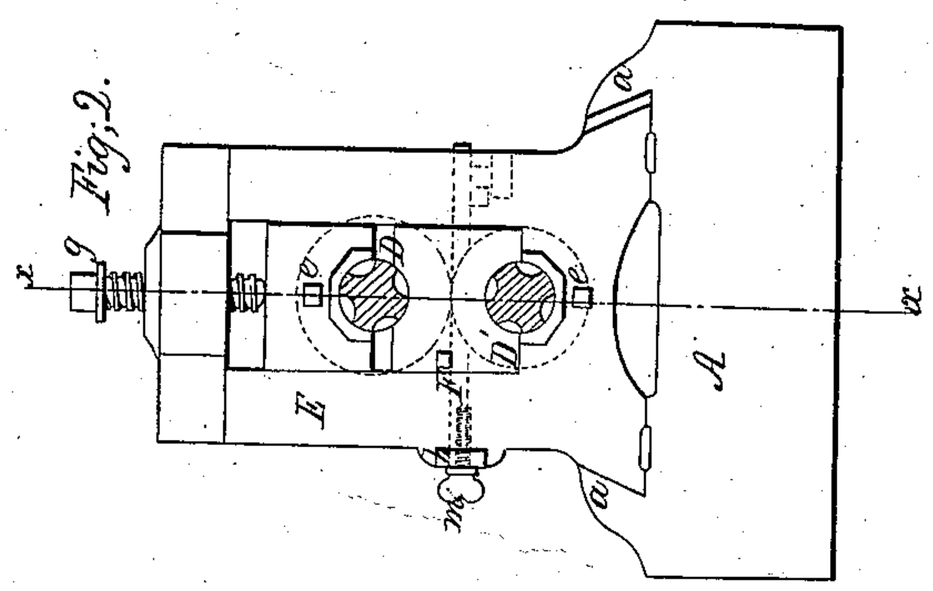


Fig. 6.

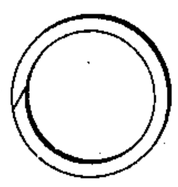


Fig. 4.

Fig. 5.

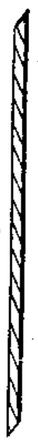
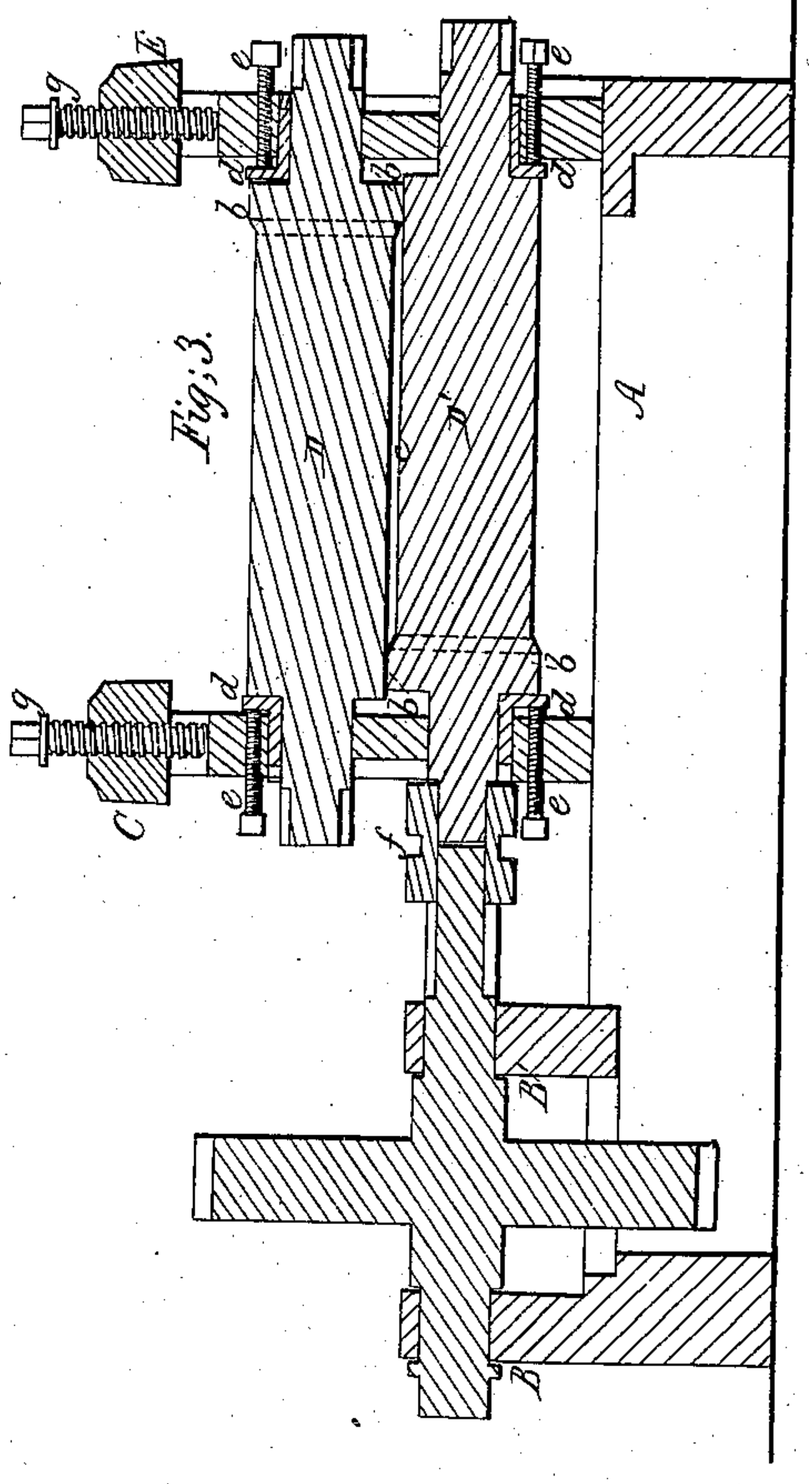


Fig. 3.



UNITED STATES PATENT OFFICE.

JAMES McCARTY, OF READING, PENNSYLVANIA.

ROLLER FOR SCARFING THE EDGES OF SKELPS FOR LAP-WELDED TUBES.

Specification of Letters Patent No. 10,478, dated January 31, 1854.

To all whom it may concern:

Be it known that I, JAMES McCARTY, of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Machinery for Scarfing the Edges of Skelps for Lap-Welded Tubes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which make part of this specification, and in which—

Figure 1 represents a view in perspective of one of my improved machines; Fig. 2 an end view thereof; Fig. 3 a longitudinal section taken at the line X X in Fig. 2; Fig. 4 a transverse section of a skelp before scarfing; Fig. 5 a similar view of it afterward; and Fig. 6 the skelp bent so as to bring its scarfed edges into the proper position for welding.

The machine represented in the accompanying drawings, consists of a strong and solid bed frame (A) upon one end of which two fixed standard (B) are mounted to support the driving gear. A third standard (C) is also fixed to the bed frame to support the bearings for one end of a pair of rolls (D, D′) whose opposite ends are supported in bearings in a fourth standard (E) which is capable of adjustment, towards and from the fixed standard (C) that supports the opposite ends of the rolls, by sliding in the dovetailed groove between two ribs (*a*) projecting from the top of the bed frame (A); the base of the standard is fitted to this groove and when adjusted to the proper position is secured by keys or otherwise.

The object for which the standard (E) is made adjustable, is to keep the bearings as close to the shoulders of the rolls as possible, and at the same time permit the rolls to slide endwise over each other to bring their collars (*b*) (as shown best in Fig. 3) at a greater or less distance apart to adapt the opening (*c*) between the rolls to scarfing skelps of varying widths, this opening being the counterpart of the skelp, when the scarfing is complete.

In order to hold the rolls steady in any position, to which they may be set, and thus insure the regular and even scarfing of the skelp, stops (*d*) adjusted by set screws (*e*) passing through the standards are placed against each shoulder of the rolls.

The lower roll is connected with the driving gear by a clutch (*f*) and the bearings for the journals of both rolls are adjusted and held down by means of set screws (*g*) in the usual manner.

Each of the roll standards are fitted with a bracket (*h*) to support an apron (F) to feed the skelps on at the level of the opening between the rolls. These brackets have slots (*i*) formed in their shanks, through which set screws (*m*) pass by tightening which the brackets are held firmly in place. By loosening the screws the brackets can be moved towards, and from each other to adapt them to receive a wider or narrower apron, as the skelps to be scarfed are wide or narrow: these brackets and table being in all cases of the width of the skelp and placed in such position, as to guide the skelp properly between the rolls.

The scarfing collar (*b*) of one of the rolls might be made separate from the barrel of the roll, and fitted thereon so that it could be adjusted to different distances from the collar of the other roll. This modification would dispense with the movement of either the standards or the rolls.

What I claim as my invention and desire to secure by Letters Patent is—

A pair of rollers constructed, arranged, and adjusted, substantially as herein described so as to bevel the opposite edges of skelp plates of different widths on opposite sides of the same.

In testimony whereof, I have hereunto subscribed my name.

JAMES McCARTY.

Witnesses:
J. V. M. HUNTER,
WM. M. SEYFERT.