S. P. M. Tasker,

Tubing Mach.

No. 111,016. Patented Jan. 17, 1871.

FIG. 1

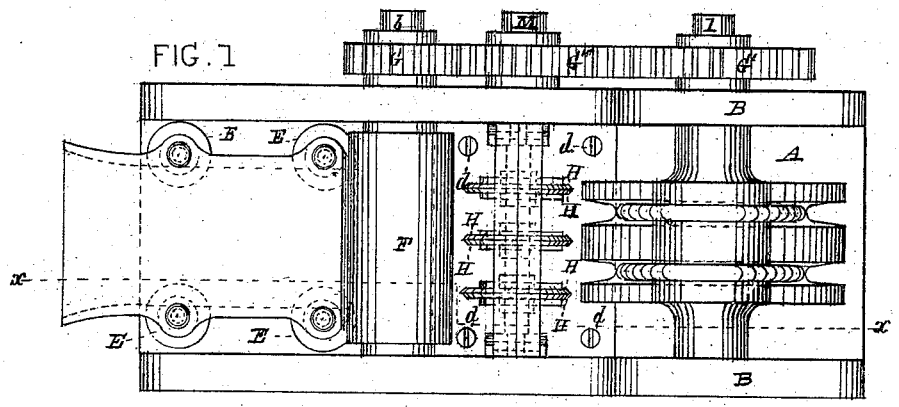


FIG. 2

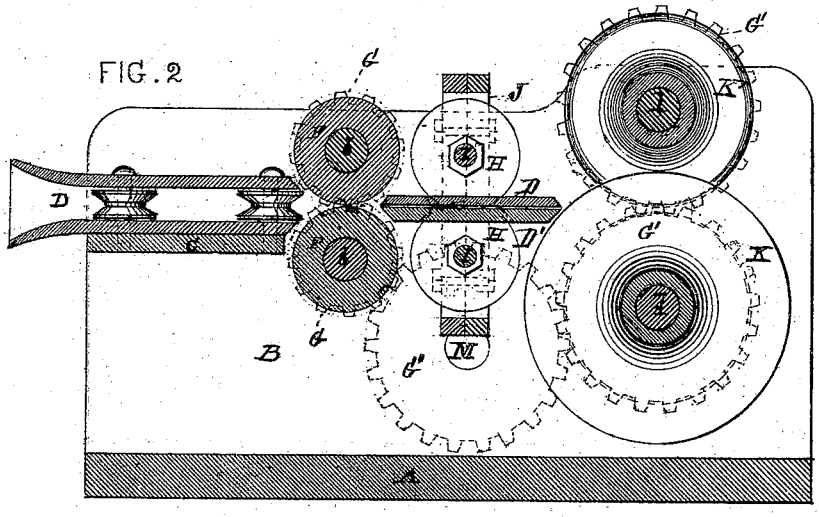


FIG. 3.

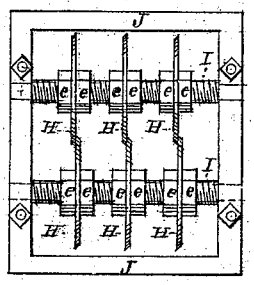


FIG. 4

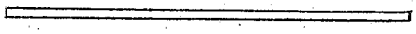
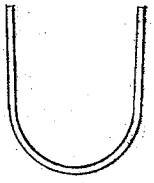


FIG. 5.



WITNESSES.

Thomas J. Beasley

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INVENTOR.

Stephen P. M. Tasker

By his atty. Stephen Notick

UNITED STATES PATENT OFFICE.

STEPHEN P. M. TASKER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR SLITTING AND BENDING METAL-TUBE SKELPS.

Specification forming part of Letters Patent No. **111,016**, dated January 17, 1871.

I, STEPHEN P. M. TASKER, of the city of Philadelphia and State of Pennsylvania, have invented certain Improvements in Machines for Slitting and Bending Metal-Tube Skelps, of which the following is a specification:

The nature of my invention consists in the combination of a series of revolving cutters, with guides, feeding mechanism, and with the first pair of bending-rolls, as hereinafter described.

To enable others to make and use my improved machine, I will now give a full description thereof.

In the accompanying drawing, which makes a part of this specification, Figure 1 is a plan of the improved machine. Fig. 2 is a longitudinal section at the line *x x* of Fig. 1. Fig. 3 is a front view of the slitting device. Fig. 4 is an end view of a butt-joint skelp on an enlarged scale. Fig. 5 is a like view of the skelp in the form produced by the first pair of bending-rolls K K′.

Like letters in all the figures indicate the same parts.

A is the bed-plate, and B B housings connected therewith, for the connection of the several parts of the machine. C is a horizontal plate, connected at its ends with the housings for supporting the mouth D, through which the sheets are passed to the feed-rolls. E E E E in the said mouth D are carrying-wheels, which facilitate the movement of the sheets.

F F are feed-rolls, geared together by means of the wheels G G on one end of the shafts *b b*, for passing the sheet through the revolving cutters H, and thence to the bending-rolls, there being guide-plates D′ D′, the lower one being connected at its ends to the housings B B. The upper guide-plate is confined to suitable projections on the lower plate by means of screws *d*.

I do not confine myself to the use of the feed-rolls F F, as other mechanism will answer the purpose of feeding the sheet to the cutters.

The cutters H are confined on the revolving shafts I I in the frame J by means of the adjustable clamping-nuts *e*. The cutting device is shown in detail in Fig. 3.

K K′ on the shafts I I are rolls for bending the skelps as they pass from the cutters H. The bending-rolls K K′ are connected by means of the gear-wheels G′ G′ on their shafts I I. They are connected with the feed-rolls F F by means of the intermediate gear-wheel, G″, on the short shaft M.

The operation is as follows: The sheet is passed through the mouth D, and is caught by the feed-rolls F F, which pass it through the revolving cutters H and bending rolls K K′. As the sheet passes through the cutters its motion causes the latter to revolve in the direction of the arrow. As the skelps pass through the bending-rolls K K′ they are brought from the flat shape represented in Fig. 4 to the form represented in Fig. 5. For giving the finishing bending to the skelps I employ other rolls in connection with the rolls K K′, which I have fully described in my specifications of other machines. I therefore deem a further description unnecessary.

I am aware that the combination of guides, feed-rolls, and skelp-bending-rolls is not new, and I am also aware that a series of pairs of cutting-disks for shearing a sheet of metal into strips is not new, and I do not, therefore, claim said devices separately; but

What I do claim is—

The combination of the series of pairs of cutting-disks with the combination of guides, feed-rolls, and skelp-bending rolls, substantially as described.

In testimony that the above is my invention I have hereunto set my hand and affixed my seal this 26th day of September, 1870.

STEPHEN P. M. TASKER. [L. S.]

Witnesses:

STEPHEN USTICK,

THOMAS J. BEWLEY.