

S.P.M. Taster,

Tubing Mach.

No. 111,017.

Patented Jan. 17, 1871.

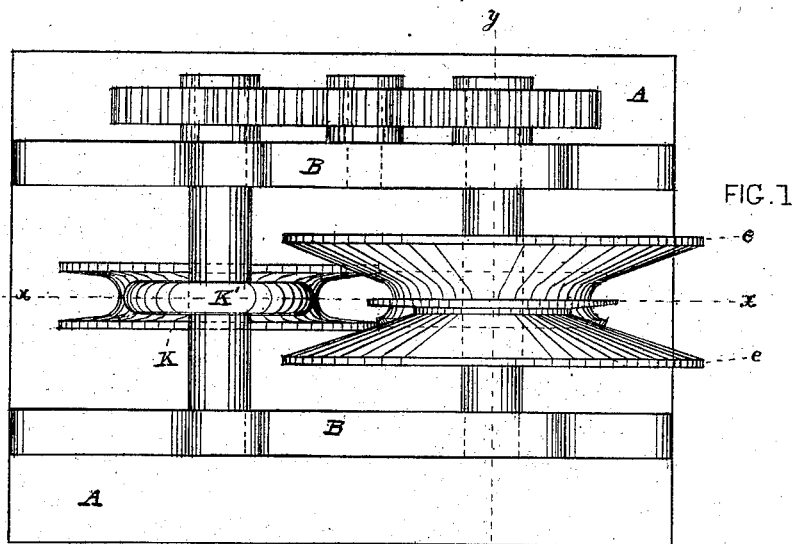


FIG. 1

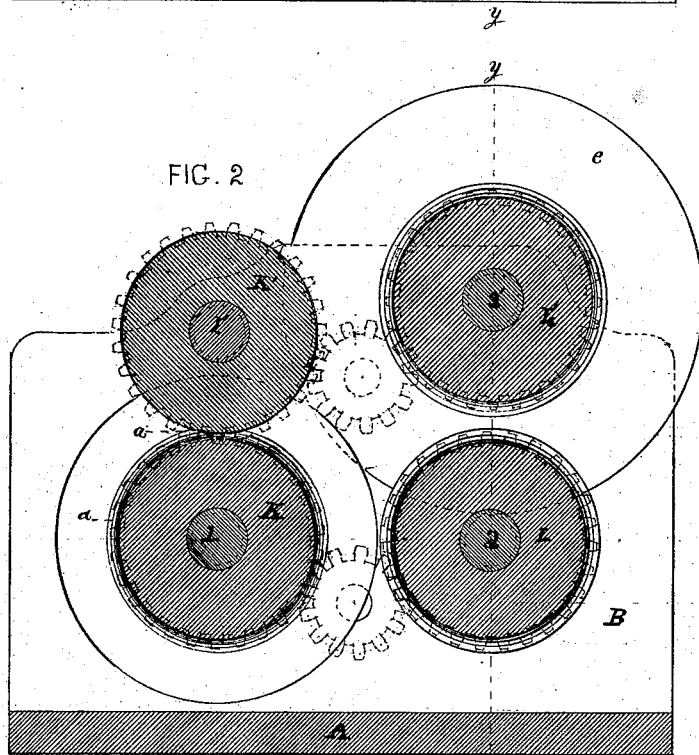


FIG. 2

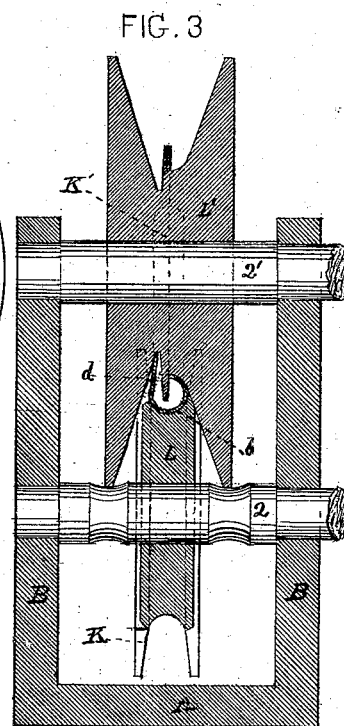


FIG. 3

WITNESSES

Thomas J. Dewey
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INVENTOR

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By his Atty Stephen Votick

United States Patent Office.

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

Letters Patent No. 111,017, dated January 17, 1871.

IMPROVEMENT IN MACHINE FOR BENDING METAL TUBE-SKELPS.

The Schedule referred to in these Letters Patent and making part of the same.

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

The nature of my invention consists in so constructing and arranging one or more sheet-metal bending-rolls with flanges, that they are caused to overlap the other rolls in such a manner as to guide the skelps in their passage through the machine, thus dispensing with the ordinary special guides.

To enable others skilled in the art to which my improvement appertains to make and use my machine, I will now give a detailed description thereof.

In the accompanying drawing which makes a part of this specification—

Figure 1 is a plan view of the improved machine.

Figure 2 is a longitudinal section on the line *x x* of fig. 1.

Figure 3 is a cross-section through the rollers *K K'* at the line *y y* of figs. 1 and 2.

Like letters in all the figures indicate the same parts.

A is the bed-plate, and

B B are the housings with which the other parts of the machine are connected.

On the shaft 1 there is a bending-roll, *K*, which has an annular groove, *a*, in its periphery.

The roll *K'*, on the shaft 1', is of counter-form, and of such size that the space *a'* is formed between the two rolls equal to the thickness of the skelp passing through this pair of rolls, in which the middle portion *b* is brought to a half circle as it passes to the rolls *L L'* on the shafts 2 2', and, in its passage through them, is brought into the form of three-fourths of a circle, there being an unbent portion, *c*, to be bent down, to complete the bending process, by another pair of rolls not shown in the drawing.

The above-mentioned rolls *K K'* and *L L'*, I have fully described in my specification of another machine fully represented; I therefore deem a further description unnecessary here.

The main feature of this machine embraces the mode of guiding the skelp through the rolls, and, as above briefly stated, consists of flanges *e e* on the roll *L*, so constructed and arranged as to overlap the other rolls, as seen in figs. 1 and 2, and more fully in fig. 3.

The said fig. 3 is a cross-section through the rolls *L L'* at the line *y y* of figs. 1 and 2, looking on the first bending-rolls *K K'*.

It will be seen, as above stated, that the flanges *e e* lap over all the other rolls, so as to be a guide to the skelp during its passage through all the rolls.

A similar construction of a roll having broad flanges, *e*, will apply to a train of rolls for bending sheets of metal for other purposes.

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

The construction of one or more of the bending-rolls, with flanges *e*, and combining said roll or rolls with the other parts of the machine in such a manner that said flanges shall overlap the contiguous rolls, substantially as represented, so as to guide the sheet of metal as it passes through the machine, as above set forth.

In testimony that the above is my invention I have hereunto set my hand and affixed my seal this 14th day of November, 1870.

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

Witnesses:

STEPHEN USTICK,

THOMAS J. BEWLEY.