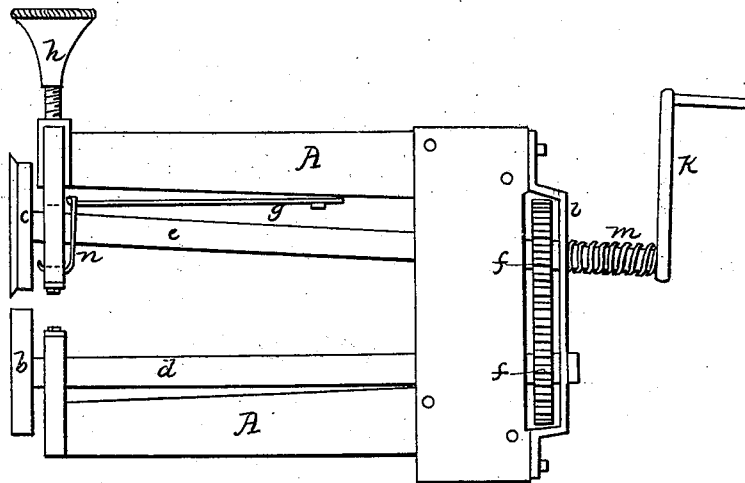


J. V. HEWES,

Sheet-Metal-Working Machine.

N^o 4,364.

Patented Jan. 23, 1846.



UNITED STATES PATENT OFFICE.

JOSEPH V. HEWES, OF PUTNAM COUNTY, INDIANA.

IMPROVEMENT IN THE DOUBLE SEAMER FOR WORKING SHEET METAL.

Specification forming part of Letters Patent No. 4,364, dated January 23, 1846.

To all whom it may concern:

Be it known that I, JOSEPH V. HEWES, of the county of Putnam and State of Indiana, have invented and added certain new and useful Improvements to the Double Seaming-Machine used by Tinner, Sheet-Iron Workers, &c., by the aid of which improvements I am enabled to turn down and press against the side of a vessel into a perfect seam the flange left around the bottoms of buckets, &c., after the bottoms are soldered onto the same, of which the following is a specification.

The nature of my invention consists in making a conical flange upon the outer edge of one of the seaming-rollers, elongating the journals of the shaft of the same, so as to give play lengthwise in the boxes, and in attaching a spring to the said shaft for the purpose of drawing the same inward, and pressing the conical flange against the outer edge of the smooth roller connected with the same. The other parts of my seaming-machine are like the double seaming-machine in common use.

A A is the frame or jaws, in which the double seaming-rollers *b* and *c* and their shafts *e* and *d* are secured.

f f are cog-wheels connecting the shafts *e* and *d*.

g is a spring connected by the hook *n* to the movable boxes, in which the roller end of the flanged roller-shaft works, for the purpose of raising the roller when the regulating-screw *h* is unscrewed.

h is a regulating-screw, which presses down upon the movable boxes in which the flanged roller-shaft works, and regulates the distance between the flanged and smooth roller.

i is a cap at the end of the frame A, between which and the frame the cog-wheels *f f* are placed.

k is the crank, attached to the flanged roller-shaft *e*.

m is a spiral spring surrounding the flanged roller-shaft *e* between the cap *i* and the crank

k. When not in operation the spiral spring *m* draws in the flanged roller sufficient to bring the outer side of both rollers on a vertical line with each other. The bucket or vessel previously prepared for the operation of turning down and forming a seam of the projecting flange surrounding the bottom of the same is now slipped on over the smooth roller and shaft so far that the outer side of the smooth roller will press against the bottom of the vessel. The conical flange on the flanged roller is now slipped over the flange surrounding the bucket or vessel, and the regulating-screw *h* is screwed down, turning the edge of the flange on the vessel inward and under, and pressing the same firmly against the side of the vessel between the smooth parts of the rollers. The crank *k* is now turned until the seaming-rollers have passed entirely around the vessel, the conical side of the flange on the flanged roller, by the aid of the spring *m* and regulating-screw *h*, drawing in and turning down the edge of the flange surrounding the vessel, and the smooth part of both rollers pressing the same firmly against the side of the vessel, making a perfect seam.

Having thus fully described my improved seaming-machine for turning down and forming a seam of the flange surrounding the bottoms of buckets, &c., what I claim therein as new, and desire to secure by Letters Patent, is—

The giving to one of the double-seaming rollers a conical flange, in combination with a spring attached to the shaft of said roller in such manner that the flange surrounding the bottom of a vessel can be gradually bent down and the seam perfectly finished at one operation, the parts being constructed and combined substantially as herein set forth.

J. V. HEWES.

Witnesses:

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