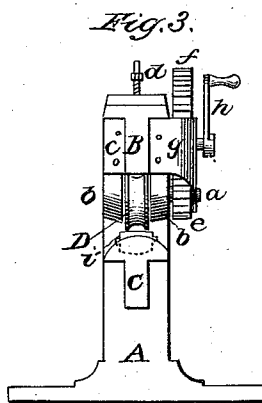
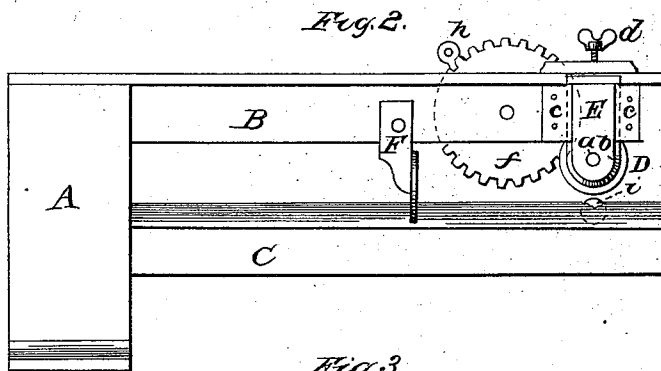
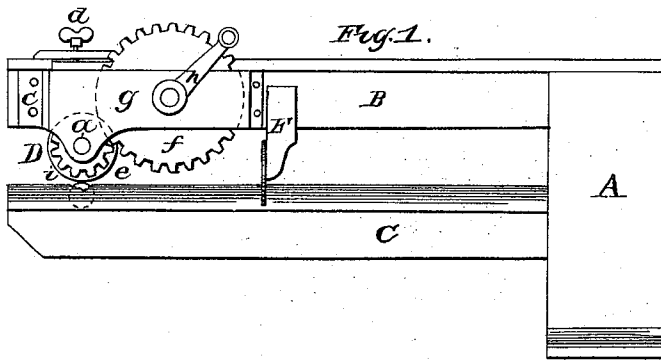


C. F. BLIESENICK.
Machine for Grooving Sheet Metal.

No. 100,111.

Patented Feb. 22, 1870.



Witnesses:
Charles C. Wilson
H. N. Mygatt

Inventor:
Chas. F. Bliesenick
by Geo. W. Colthwell
"atty"

United States Patent Office.

CHARLES F. BLIESENICK, OF PROVIDENCE, PENNSYLVANIA.

Letters Patent No. 100,111, dated February 22, 1870.

IMPROVEMENT IN MACHINE FOR GROOVING SHEET-METAL.

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

To all whom it may concern :

Be it known that I, CHARLES F. BLIESENICK, of Providence, in the county of Luzerne, and State of Pennsylvania, have invented a useful and improved Machine for Grooving Sheet-Metal; and I do hereby declare the following to be a full, clear, and exact description thereof, sufficient to enable those skilled in the art to which my invention appertains to fully understand and to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is an elevation of the front side of the machine.

Figure 2, a similar view of the opposite side.

Figure 3, an end view.

The subject of this invention is a machine for grooving sheet-metal, generally, but especially intended for grooving stove-pipe lengthwise on the seam, whereby the two edges are united, and for the same class of work in the manufacture of sheet-iron stoves.

The invention consists in the construction, arrangement, and combination of parts as will be now described.

Referring to the drawings, wherein similar letters in the several figures indicate like parts—

A may represent a standard or framing, of suitable construction and adequate strength to support the machinery.

In this standard A are fixed beams B C.

The upper surface of the lower beam C is made convex, for a purpose to be hereinafter described.

D is the grooving-roller, which is formed with a concave periphery, as represented in fig. 3.

The axis *a* of this roller has its bearings in the sides *b b* of a block, E, which is fitted in guides *c c* attached to the beam B, so as to be capable of adjustment by means of a set-screw, *d*.

On the journal of the grooving-roller is keyed a pinion, *e*, which engages with the teeth of a large wheel, *f*, journaled in bearings in the beam B and a housing, *g*, secured to said beam.

h is a crank-handle fitted to the extended journal of the wheel *f*.

i represents a friction and feed-roller fitted to turn in a recess in the lower beam C, only a small portion of the periphery of the roller appearing above the upper surface of the beam, as represented.

F is a gauge, which is adapted to be set at any point on the beam B, and fixed in position by a set-screw.

The lower surface of this gauge is made concave to correspond with the upper surface of the lower beam C, on which it rests.

The operation of this machine will be readily understood. The gauge having been fixed in position according to the length of the groove desired, and the grooving-roller adjusted up or down, according to the thickness of metal employed, the sheet of metal is rested on the outer projecting portion of the lower beam and then moved up to the rollers. Now, the crank being turned, the sheet is caught between the revolving rollers and carried forward until it is brought into contact with the gauge; the motion of the crank being then reversed, the grooved sheet or pipe will be discharged.

By making the upper surface of the lower beam convex, and placing the feed-roller as described, the machine is better adapted for operation upon sheet-metal in cylindrical form.

The advantages of my machine consist, mainly, in its simplicity, durability, and easy, effective operation.

Having thus described my invention,

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

The combination and arrangement of the adjustable grooving-roller, the feed-roller *i*, gearing *e f*, the gauge F, beams B C, and a standard or framing A, all operating substantially as set forth.

To the above specification of my invention I have signed my name this 21st day of January, A. D. 1870, in the presence of two subscribing witnesses.

CHARLES F. BLIESENICK.

Witnesses :

C. W. HARTLEY,
CHAS. H. WELLES.