

W. H. Henderson,
Making Sheet-Metal Vessels.
N^o 54,341. Patented May 1, 1866.

Fig. 1.

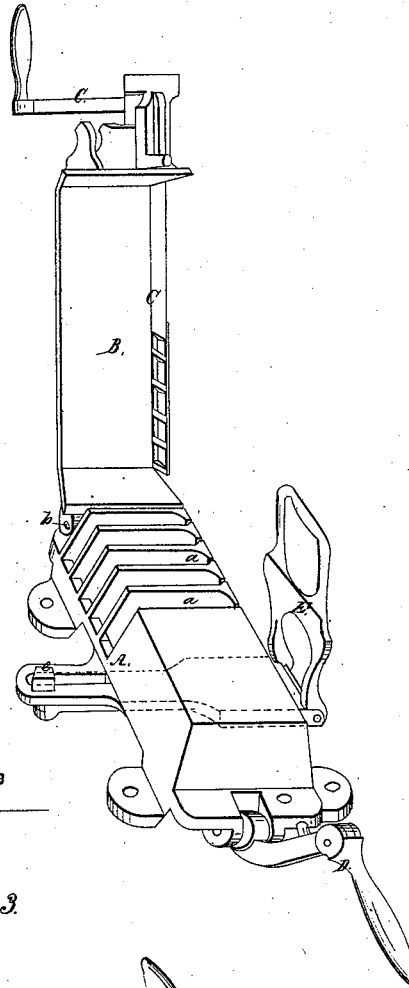


Fig. 2.

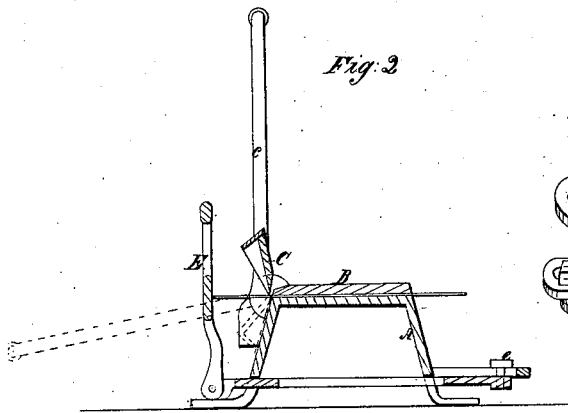
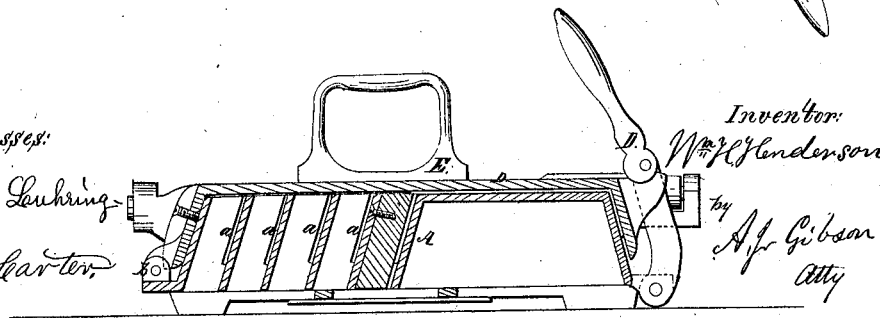


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. HENDERSON, OF FRANKLIN, INDIANA.

IMPROVEMENT IN TINMEN'S FORMING-TOOLS.

Specification forming part of Letters Patent No. 54,341, dated May 1, 1866; antedated April 16, 1866.

To all whom it may concern:

Be it known that I, WILLIAM H. HENDERSON, of Franklin, Johnson county, and State of Indiana, have invented a new and useful Improvement in Tinmen's Forming-Tools, of which the following is a full and clear description, reference being had to the accompanying drawings, making a part of this specification.

My improvement relates to a machine by means of which much economy both in time and labor accrues to the operator on sheet metal.

Figure 1 represents a perspective view of my improved forming-tool, showing the position of the various parts of the forming-tool previous to operation. Fig. 2 is a transverse section of the machine, showing the mode of operating upon the metal. Fig. 3 is a longitudinal section.

A represents the frame of the machine. B is the clamping-plate, which is pivoted to frame A at *b*. To the clamping-plate B is pivoted, longitudinally, the forming-plate C, operated upon by means of lever *c*.

D is the clamp-handle, so constructed as to secure the clamping-plate B in close contact with frame A. The frame A is oblong and is beveled off on its sides and ends.

In frame A are slots *a*, which make the same angle with the upper face of frame A that the sides do.

E is a slide-gage, which determines the amount of metal to be turned down. It is adjusted by means of nut *e*, which moves in slot

e'. Slot *e'* is in arm *e''*, which is secured to frame A.

Operation: The sheet metal to be operated upon is placed upon the upper face of frame A. The slide-gage is placed at such a distance from the frame A as desired, (shown in Fig. 2,) and secured at the required distance by means of nut *e*. Clamping-plate B is then revolved down upon the plate and clamped securely by means of clamp-handle D. By means of forming-plate C that part of the plate operated upon which is between the frame A and slide-gage E is turned down upon the side of the frame, as shown in Fig. 2. The sheet metal is turned about in order to operate upon the opposite end of the sheet. The end first bent down is inserted in one of the slots *a*, and the sides in succession pressed down upon the side of frame A by means of forming-plate C. When the edges of the metal have been turned down, as above described, the corners are made to overlap by the use of a mallet, which completes the formation of the dish or pan.

Having described my invention and mode of operating its various parts, I make the following claim:

The frame A, having slots *a*, clamping-plate B, forming-plate C, and slide-gage E, all constructed as above described, and for the purpose set forth.

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Attest:

JOHN F. LUHRING,
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