

WILLIAM H. MCGANN.

Improvement in Double-Seaming Machine.

No. 128,158.

Patented June 18, 1872.

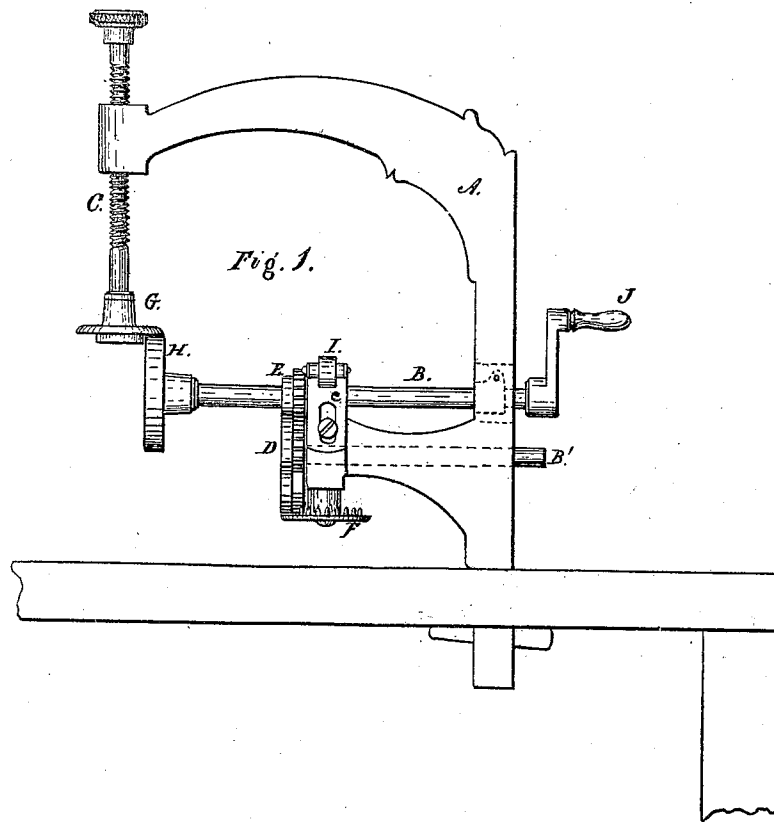


Fig. 5.

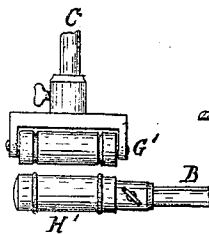


Fig. 2.

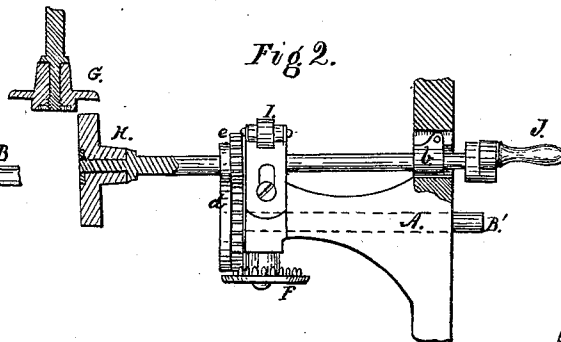
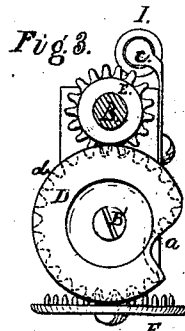
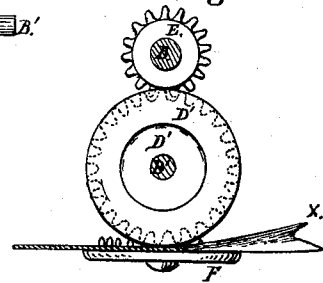


Fig. 4.



Witnesses.

Edward H. Peterson

Edward H. Peterson

Inventor.

W. H. McGann

for C. O. Dwyer
att'y

UNITED STATES PATENT OFFICE.

WILLIAM H. MCGANN, OF HARTFORD, VERMONT.

IMPROVEMENT IN DOUBLE-SEAMING MACHINES.

Specification forming part of Letters Patent No. 128,158, dated June 18, 1872.

Specification describing certain Improvements in Machines for "Seaming" and Setting Down" in Manufacturing Articles of Tin-Ware, invented by WILLIAM H. MCGANN, of Hartford, in the county of Windsor and State of Vermont.

This invention relates to certain improvements in the construction of machines used in the manufacture of articles of tin-ware; and consists in certain novel combinations and arrangements of parts, which have for their object to simplify the construction of the machine and render it capable of performing a variety of work in an efficient manner, as is hereinafter set forth.

Figure 1 of the drawing is a side elevation of my machine. Fig. 2 is a detail view partly in section. Figs. 3, 4, and 5 are views in detail, illustrating particulars of construction of the machine, hereafter described.

General Description.

The frame A is clamped or properly secured to the work-bench in a position to suit the operator, and is made of such form that it will readily receive and hold different sizes and shapes of work. The horizontal shaft B is held at one end in the swivel-bearing *b*, and carries at the other end the seaming-face H. It is rotated by the crank J. Below the shaft B is a secondary shaft, B', upon the end of which is secured the gear-wheel D. The part of the frame supporting this end of the secondary shaft has the horizontal disk or crown-wheel F pivoted to it, and motion is imparted to this disk by the series of teeth or pins which project upward from its face and mesh with the teeth of the gear-wheel D. Motion is imparted to the wheel D from the driving-shaft B by the pinion E. The gear-wheel D is provided with a smooth projecting face or collar, *d*, (as shown in Figs. 2 and 3,) upon which a similar face or collar, *e*, on the pinion E, turns as the gear and pinion revolve together; and as the shaft B has but one bearing (at *b*) in the frame, this gear-wheel D acts to support the front end of the shaft, where the seaming-face H is secured. The pinion E, in turning upon and with the guiding-wheel D, is held, with the shaft, in a horizontal position; and the work on the face H is held in contact with the face G in a suitable manner; but the

the guiding-and-supporting surface *d* upon this wheel D is depressed for a short distance at the point *a* in its circumference, (see Fig. 3,) and the teeth are also cut away or depressed, so that the pinion E, in running on the face of this wheel, will drop when it reaches the point *a* and cause the shaft B to be inclined, as shown in Figure 2 of the drawing. This inclination of the shaft draws the face H away from contact with the adjustable face G, and allows the finished work to be removed from the machine, and a new piece placed in position without deranging the adjustment of the faces G H with regard to each other, as it would otherwise be necessary to raise the adjustable face G in order to remove the finished article, or to place a new piece of work in position, and thus change the adjustment of the seaming-faces each time. The construction of this wheel D, as described, removes this objection and enables articles of various shapes and different sizes to be readily placed upon and removed from the face H.

The machine thus constructed can be used for a variety of work by substituting for the faces G H others of different form; those shown in Fig. 5 being used to form beads on different articles. It is also capable of being used as a "setting-down" machine, for turning down the edges of the work, by removing the cam-gear D and putting in its place on the shaft B' a wheel, D', with a continuous surface, *c'*, (as shown in Fig. 4,) which acts, in connection with the surface of the horizontal crown-wheel F, to turn or "set-down" the edge of the article *x*, passed through between them. When used for this purpose the crank J is removed from the end of the shaft B and placed on the secondary shaft B' to operate the wheel D'. The machine is provided, also, with a roller, I, held in the adjustable bracket *c*, for supporting large work that projects over and covers the gearing.

It is not intended to make any claim to the device described in Fig. 4, as it is intended to make that part of the invention the subject of a separate patent.

Claims.

1. Giving a drop movement to the shaft B, carrying the face H, by means of the cam-gear D or its equivalent, for inserting and remov-

ing the work, constructed and operating substantially in the manner described.

2. The cam-gear D with its collar *d* forming the support and bearing for the collar *e* on the pinion E, to reduce the friction of the machine, constructed and operating substantially as described and specified.

3. The combination, with the faces G H, of

the roller I, for supporting the material in its passage through the machine, substantially as described and specified.

WILLIAM H. MCGANN.

Witnesses:

CHAS. W. PEASE,
ALLEN L. PEASE.