

P. H. HOWELL.
Screw-Forming Machines.

No. 150,241.

Patented April 28, 1874.

Fig. 1.

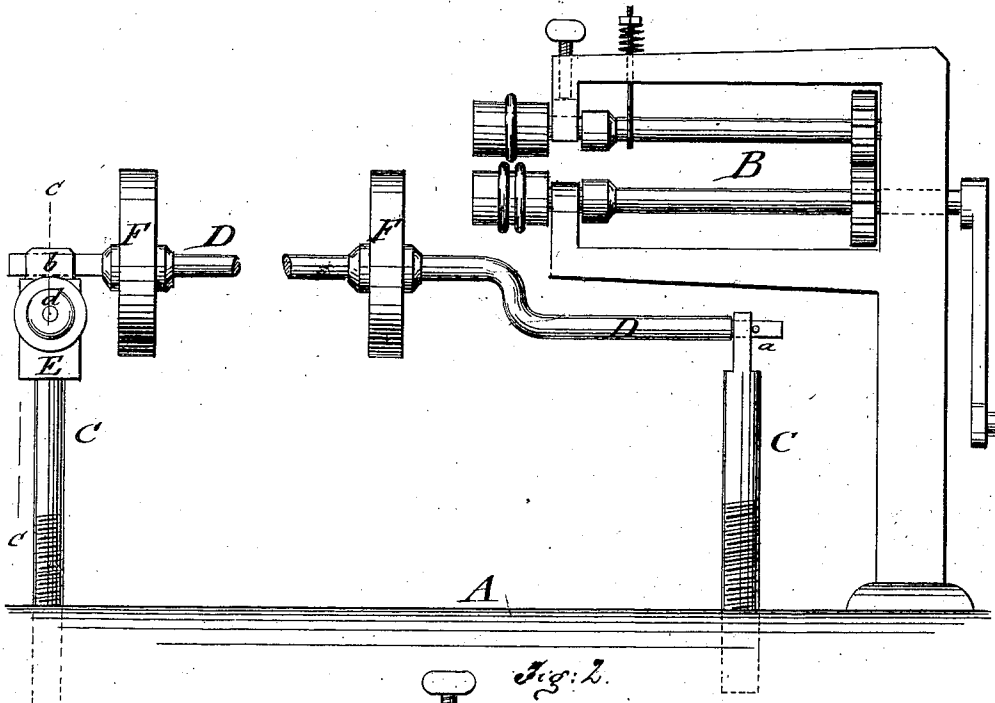
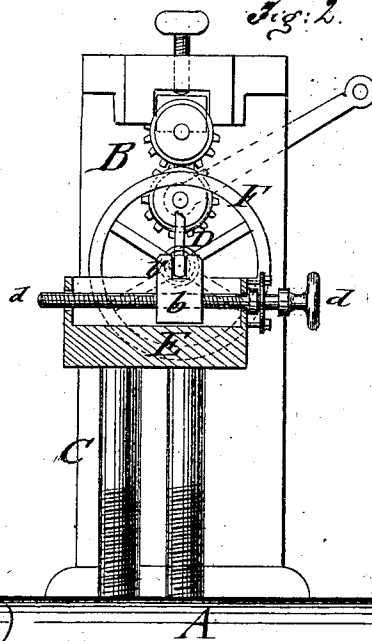


Fig. 2.



Witnesses:

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PETER H. HOWELL, OF BLACK RIVER FALLS, WISCONSIN.

IMPROVEMENT IN SCREW-FORMING MACHINES.

Specification forming part of Letters Patent No. **150,241**, dated April 28, 1874; application filed October 4, 1873.

To all whom it may concern:

Be it known that I, PETER H. HOWELL, of Black River Falls, in the county of Jackson and State of Wisconsin, have invented a new and Improved Attachment to Swaging-Machines, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved attachment to swaging-machines; and Fig. 2, an end view of the same, partly in section, on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide the swaging-machines in common use with a guide attachment, by which stove and other pipes may be produced with screw-threads, so that they may be readily put together and disconnected, and the slipping of the same or escape of ashes or sparks be effectually prevented.

My machine consists of two main standards, which carry a vertically and laterally adjustable arm with two wheels, on which the stove or other pipe is placed and fed, under suitable inclination, to the swaging-machine.

A, in the drawing, represents the bench; B, the swaging-machine, of ordinary construction; C, the standards which carry, in the longitudinal direction of swaging-machine A, the arm D. One standard, C, is placed below the swaging-machine, the other at suitable distance from it, both standards being vertically adjustable, by screws or otherwise, in bench A, to raise or lower arm C for pipes of different diameters. The end of arm D, near swage B, is bent to extend to standard C below the same, being connected to it by hole and pin

a. The other flattened end of arm D rests in a recess, *b'*, of gage-block *b*, which is laterally adjustable by thumb-screw *d* in guide-casing E of standard C. Two or more wheels, F, of suitable diameters to correspond with different sizes of pipes, are placed loosely on arm D, and the pipe, of sheet-iron or other suitable metal, slipped on the same by lifting arm D out of recess *b'*, and turning it sidewise. On replacing arm D the proper height and angle of inclination is given to the same by standards C and thumb-screw *d*, so that on introducing the pipe between the burrs of the swaging-machine in the usual manner, and turning the crank, the pipe is fed to them, and a screw-thread of suitable length and inclination formed thereon.

The burrs may be round, oval, V-shaped, or otherwise, provided a stiff and rigid connection of the pipes is produced, so that they require no wires or other contrivance for supporting them in horizontal direction, and can be easily taken apart for cleaning.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

In combination with an ordinary swaging-machine and supporting-bench, the standard C, carrying an arm, D, upon which are mounted wheels F, the standards and arm being, respectively, vertically and laterally adjustable, to form threads on different sizes of pipes, and with different pitches, substantially as shown and described.

PETER H. HOWELL.

Witnesses:

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