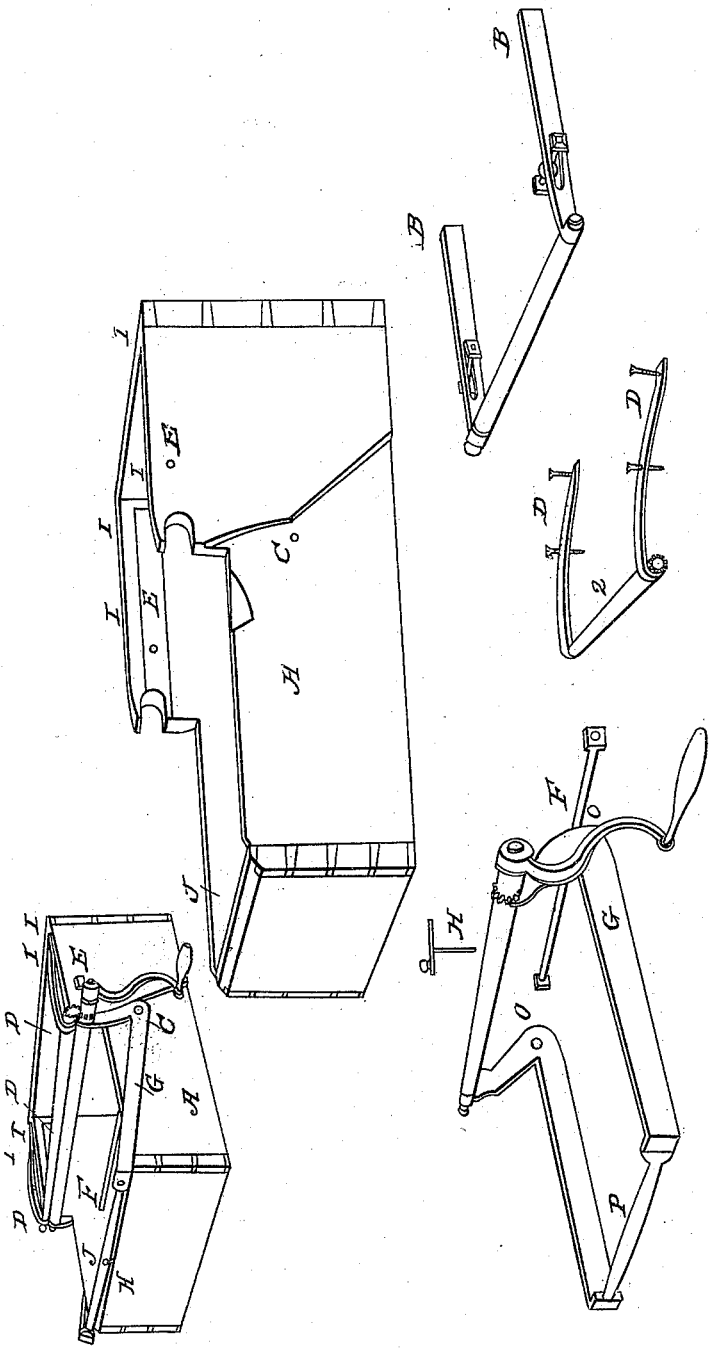
STOUT & STANTON.

Making Metal Tubing.

No. 7,537. Patented July 30, 1850.



UNITED STATES PATENT OFFICE.

JOS. STOUT AND J. T. STANTON, OF WAYNESVILLE, OHIO.

IMPROVEMENT IN MACHINES FOR FORMING TUBES OF SHEET METAL.

Specification forming part of Letters Patent No. **7,537**, dated July 30, 1850.

To all whom it may concern:

Be it known that we, JOSEPH STOUT and JAMES T. STANTON, of Waynesville, in the county of Warren and State of Ohio, have invented Improvements on Machinery for Forming Candle-Molds and Tubing generally; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

The nature of our invention relates to such arrangements of machinery heretofore in use as have a roller around which a metallic candle-mold or other tube is formed, which can be easily detached from the machine in which it works, so as to admit the tube formed on it to be slipped off at one end instead of having to be sprung open and thrown out of a round form, and also have spring-bearings for the rollers, thus enabling them to adjust themselves to the thickness of the material used in them.

To enable others skilled in the art to make and use our invention, we shall proceed to describe its construction and operation.

In a box or frame (marked A) there are three rollers, (marked 1, 2, and 3,) which revolve upon journals supported by bearings or sockets at the side of the box A. Roller 2 is the front lower roller, to which the crank is attached, and works in the sockets of the upright parts of lever G. Roller 2 works over roller 3, bearing on journals at each end, which revolve in the sockets at the ends of springs D D, which are placed at the top of the frame or box A at I I I I. Roller 1 is placed back of roller 3 and revolves in sockets made in the side rests, B B, which rests are made fast to the box or frame A, with bolts or nuts at E E, and in a straight line back of roller 3 the side rests, B B, can be moved backward or forward to suit the thickness of the material to be worked. Tin, copper, sheet-iron, or other material suitable for tubing is placed in front of and between rollers 2 and 3 and is formed around roller 3, to which the crank is attached, by a forward motion of the crank. Roller 3 is kept to its place by means of levers G in the sockets of the upright parts of levers G, on which it works in the process of forming a tube. When the tube is formed, the front ends of levers G, being depressed, detach roller 3 from the others by throwing it forward. The tube around it can then be readily slipped off at the opposite end from the crank and cog-wheel. The levers G have their fulcrum-bearing on the ends of rod F, which passes through the box or frame A at C, and through the levers G at their elbows *o o*. These levers are connected across the front end of the box by means of a piece of iron, P. This cross-piece serves as a rest for the levers when raised, at which time they are supported by a catch, H, on the front end of the box or frame A. The rollers 1, 2, and 3 may be made straight or tapering to suit the kind of tubing to be formed.

What we claim as our invention, and desire to secure by Letters Patent, is—

Supporting the forming-roller 3 upon the short ends of the bent levers G G, in combination with the upper roller, 2, supported by springs, substantially in the manner and for the purposes herein described.

JOSEPH STOUT.
JAMES T. STANTON.

Witnesses:
J. E. KEYS,
JOHN W. KEYS.