

E. A. CONNER.

MACHINES FOR SHAPING PLOW HANDLES.

No. 183,838.

Patented Oct. 31, 1876.

fig: 1.

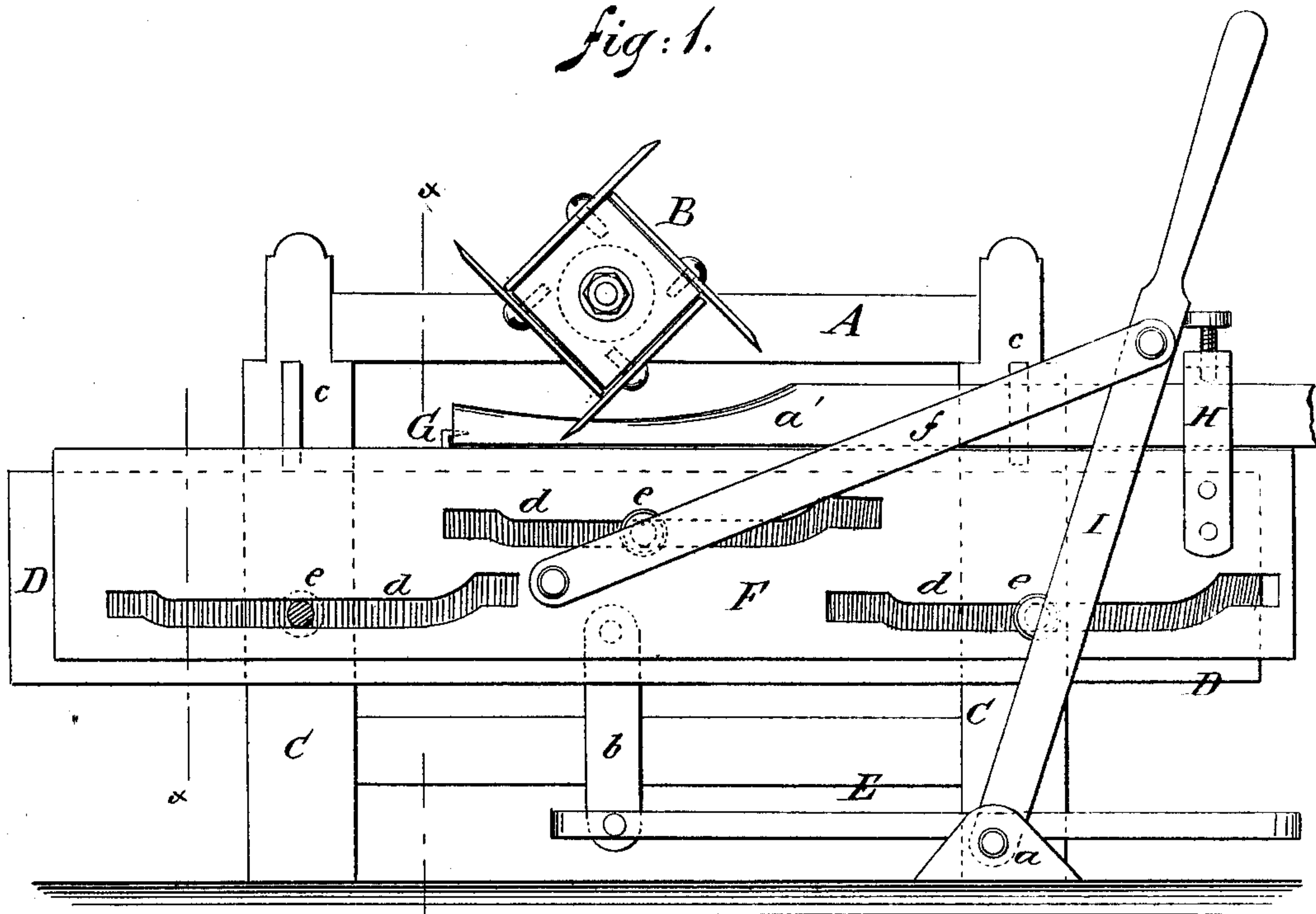
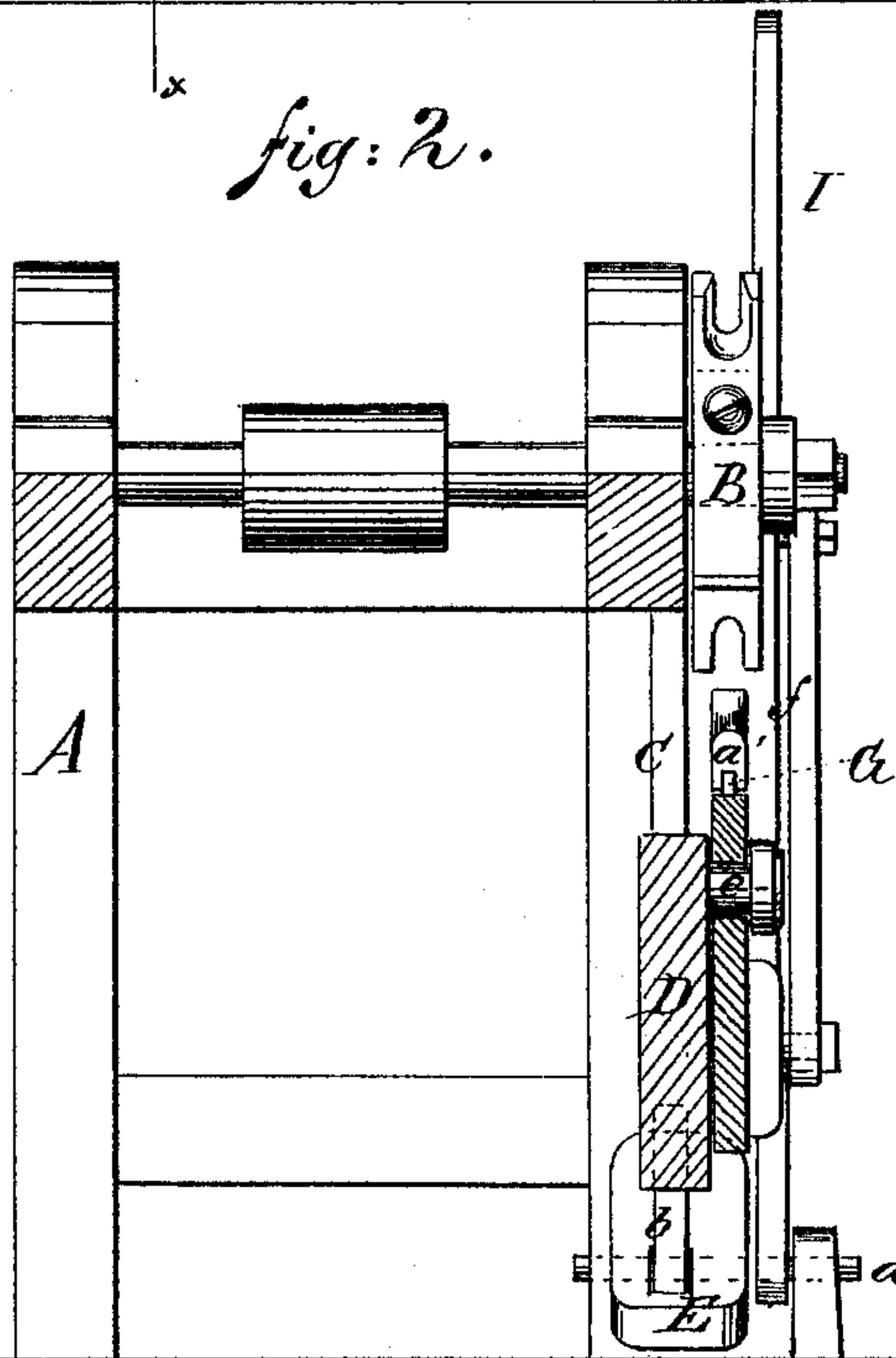


fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDMUND A. CONNER, OF METROPOLIS, ILLINOIS.

IMPROVEMENT IN MACHINES FOR SHAPING PLOW-HANDLES.

Specification forming part of Letters Patent No. **183,838**, dated October 31, 1876; application filed August 21, 1876.

To all whom it may concern:

Be it known that I, EDMUND A. CONNER, of Metropolis, in the county of Massac and State of Illinois, have invented an Improvement in Shaping-Machines, of which the following is a specification:

Figure 1 is a side elevation. Fig. 2 is a transverse section on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to apparatus for guiding plow-handles and other articles while being shaped; and it consists of a frame attached to the side of a shaping-machine, which is capable of being moved vertically by a suitable lever, and which is provided with pins, upon which moves a guide having cam-slots of the form desired in the article to be shaped, the article being clamped to the guide, and moved up to the cutters by a lever connected with the guide.

A is the frame of a shaping-machine, and B the ordinary cutter-head. C C are beveled guides attached to the vertical end posts of the frame A, and D is a frame fitted to slide upon the said guides. A pedal or foot-lever, E, is pivoted at *a*, and is connected to the frame D by the link *b*. *c c* are stops on the frame A, which limit the upward motion of the frame D. F is a guide having cam-slots *d*, which move on the pins *e*, that project from

the frame D. G is a dog fixed to the upper edge of the guide F, for holding the end of the handle *a'*, and H is a screw-clamp for holding the body of the handle. The cam-slots *d* have the form required in the handle or other article being shaped. I is a lever for moving the guide F, which is pivoted at *a*, and connected to the guide by a rod, *f*. The article to be shaped is made to engage with the dog G, and is clamped by the clamp H. The frame D is raised by means of the pedal or lever E, and the guide F is moved through the length of the slots *d*, feeding the work to the cutters. The cam-slots *d*, by engaging with the pins *e*, cause the guide to move up or down, giving the work the required form. When the work is finished, the frame D is allowed to drop, the work is removed, when the operation may be repeated.

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

The combination of the cutter-head B, frame A, guides C, frame D, guide F, provided with cam-slots *d*, the levers E and I, dog G, and clamp H, substantially as shown and described.

EDMUND A. CONNER.

Witnesses:

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JOHN Q. A. CONNER.