

(No Model.)

J. E. L. BRADEEN.

MACHINE FOR CUTTING AND PUNCHING METAL.

No. 283,198.

Patented Aug. 14, 1883.

Fig. 1.

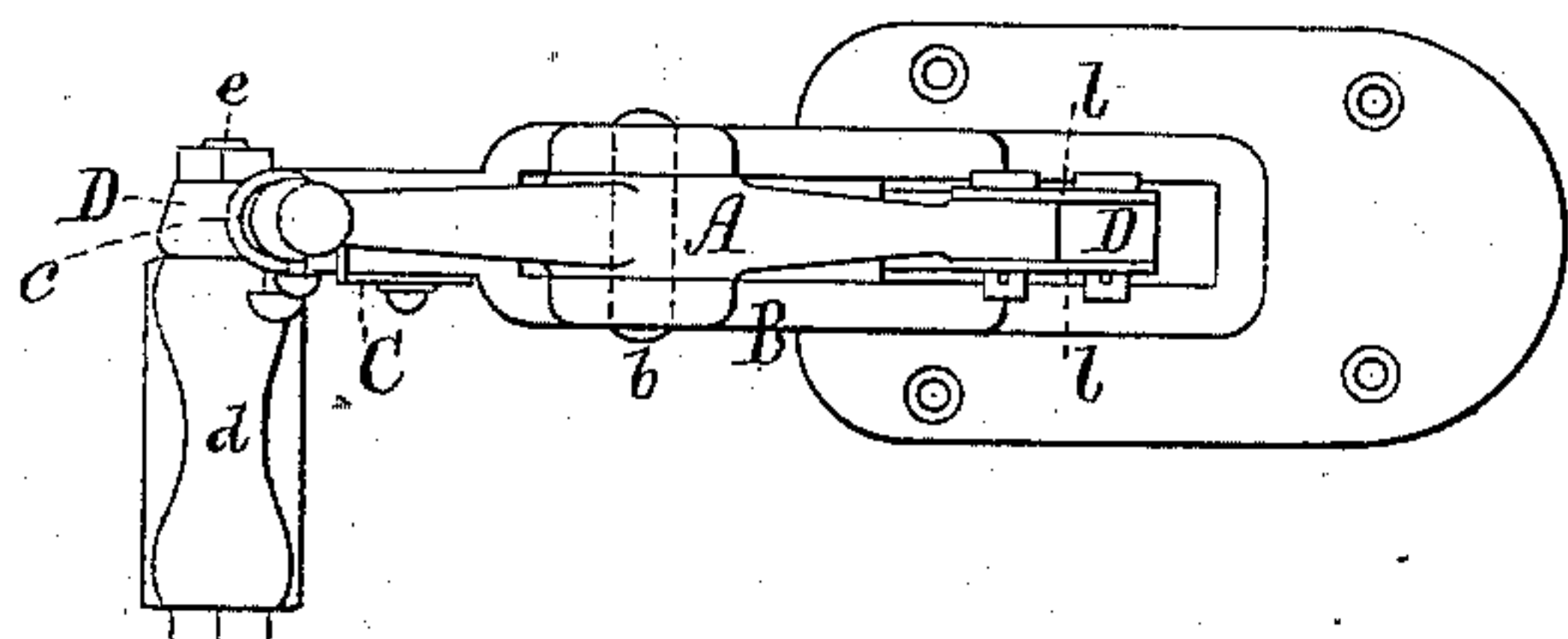
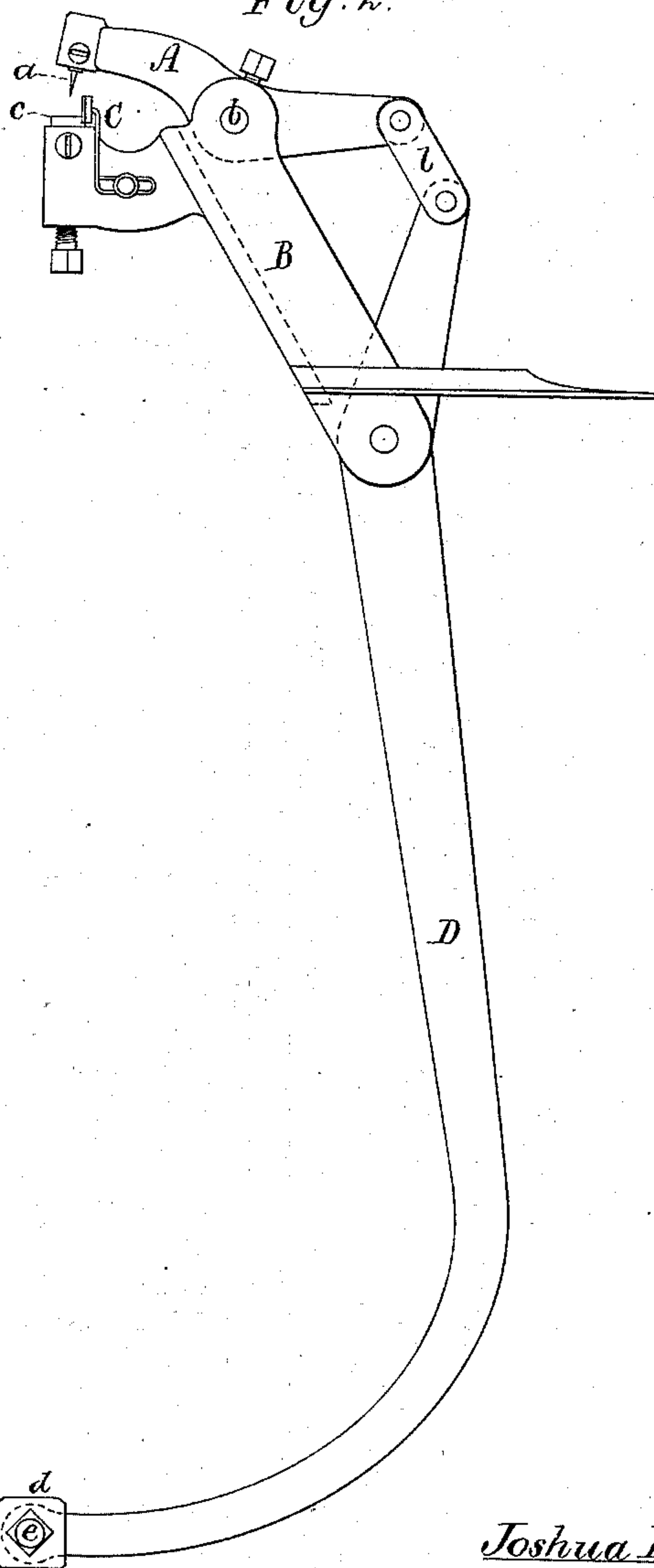


Fig. 2.



Witnesses

S. N. Pipes
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by R. H. Eddy att'y.

UNITED STATES PATENT OFFICE.

JOSHUA EDWIN LANE BRADEEN, OF SOUTH BERWICK, MAINE.

MACHINE FOR CUTTING AND PUNCHING METAL.

SPECIFICATION forming part of Letters Patent No. 283,198, dated August 14, 1883.

Application filed May 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSHUA EDWIN LANE BRADEEN, of South Berwick, in the county of York, of the State of Maine, have invented a new and useful Improvement in Machinery for Punching or Cutting Metal or other Material; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, and Fig. 2 a side elevation, of a machine for punching button-holes in shoe-uppers, such machine being provided with my invention, the nature of which is duly set forth in the claim hereinafter presented.

The punch or cutter *a* of this machine is supported by or in the front arm of a lever, *A*, which is fulcrumed, as shown at *b*, to a standard, *B*, for sustaining the bed *c*, upon which the work or material is placed for being punched or cut, there being to the part which carries the bed an adjustable gage, *C*, for the work to bear against. The other or rear arm of the lever *A* is connected by two links, *l l*, with the upper arm of a pendulous or pedal lever, *D*, extending down through and fulcrumed to the standard. The longer arm of the lever *D*, curved as shown, is furnished at its lower part with a journal, *e*, projecting from it laterally at a right angle to it, and sup-

porting a foot-rest, *d*, which may be revoluble on such journal. An attendant, on placing his foot on such rest, can swing with his leg the lever *D* back and forth, so as to produce a reciprocating motion of the lever *A* during each advance and each return movement of such lever *D*. The link or links and the upper arm of the pedal-lever *D* operate as toggles to move the lever *A* and cause its tool to punch or cut in each descent of it upon the bed.

Instead of two separate links, a single one, pivoted to the two levers *A* and *B*, may be used.

I am aware that a punch has been devised having a foot-lever which is connected to and operates the cutter-carrying arm.

What I claim is—

The combination of the standard *B*, having the bed *c*, the lever *A*, carrying the cutter *a*, and fulcrumed to the standard *B* at *b*, the pedal lever *D*, and links *l*, connecting the lever *D* and the lever *A*, all constructed, arranged, and combined as and for the purpose set forth.

JOSHUA EDWIN LANE BRADEEN.

Witnesses:

CHARLES C. HOBBS,
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