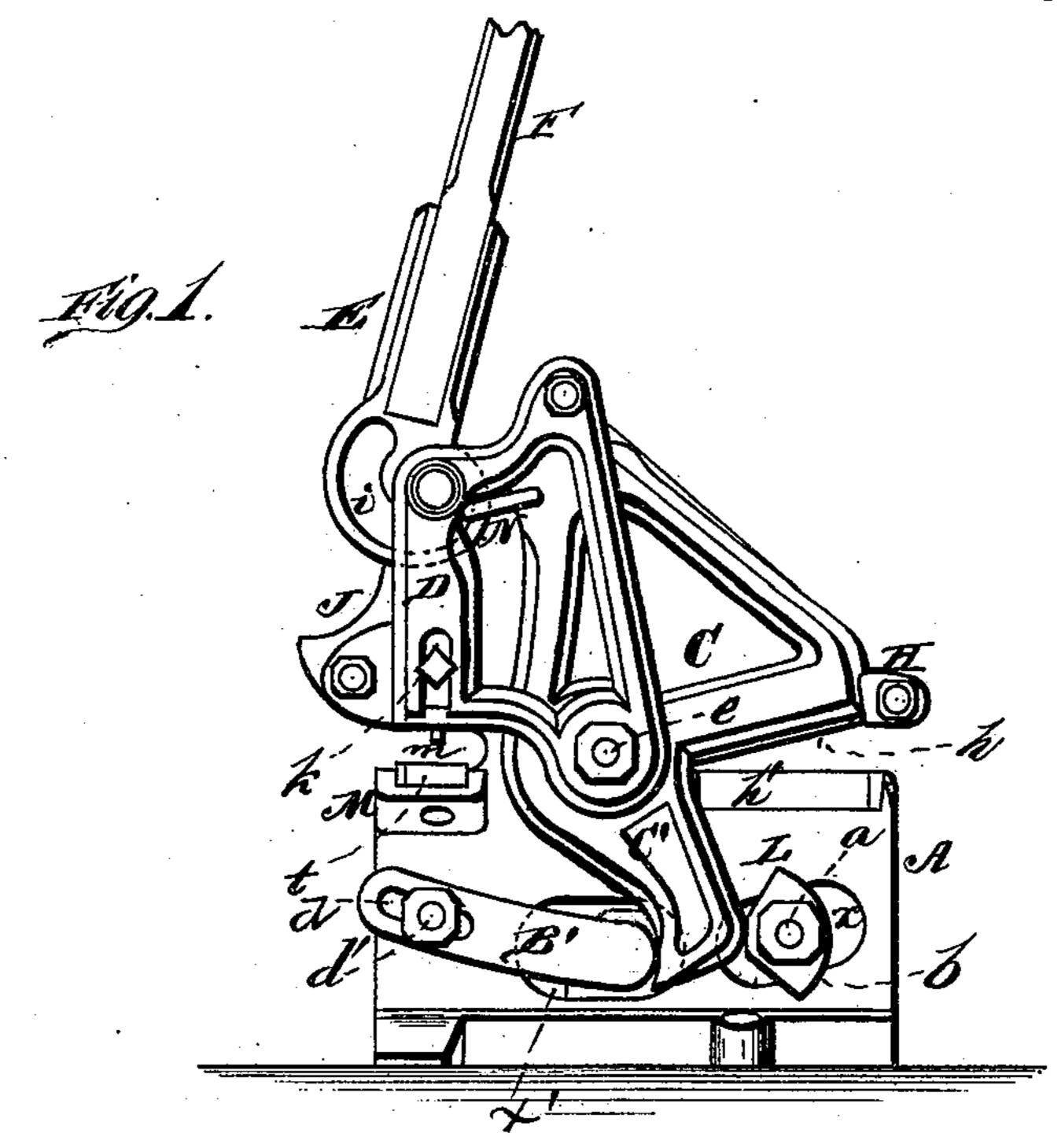
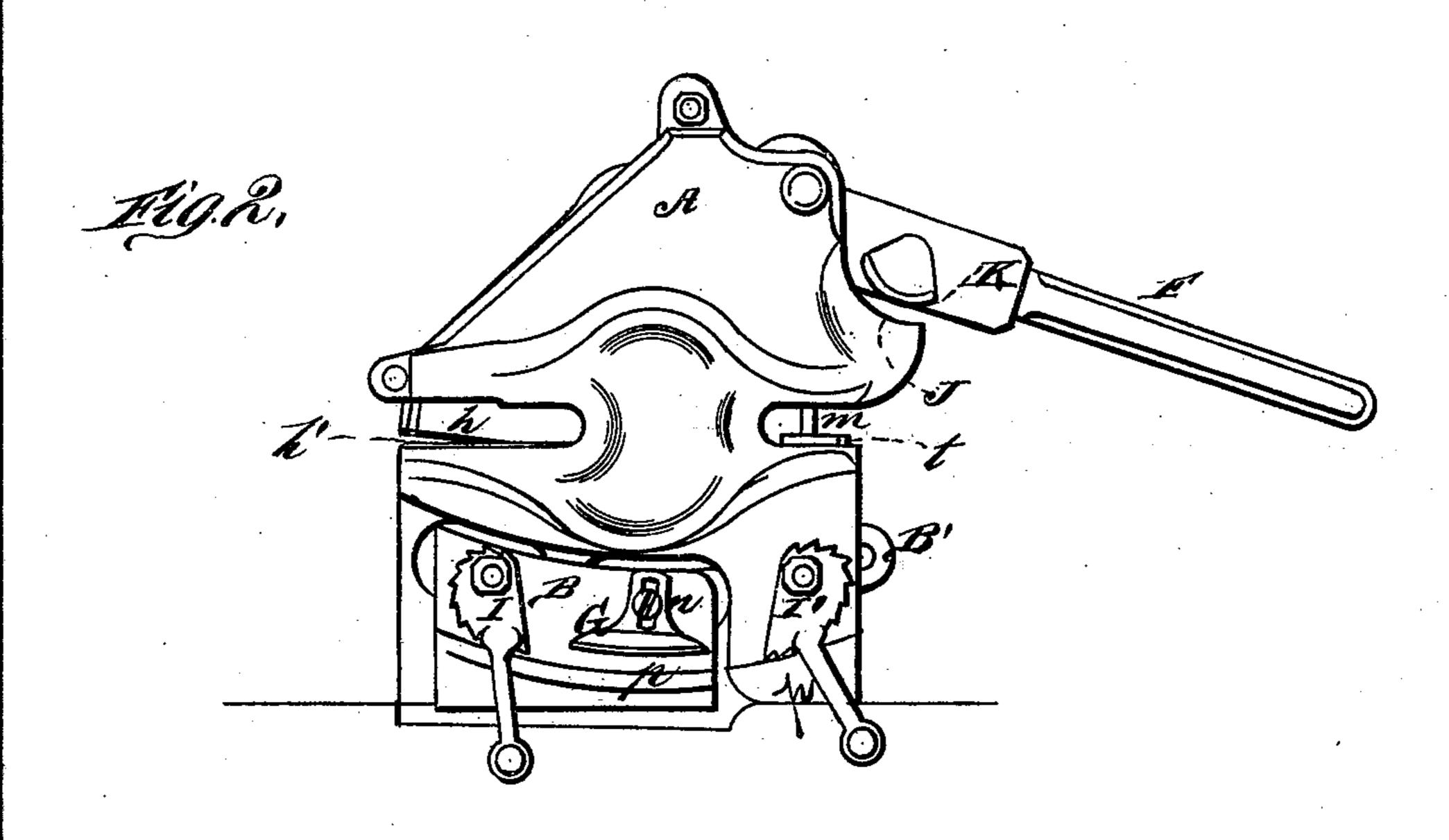
J. W. BODGE.
Tire Upsetter.

No. 202,220.

Patented April 9, 1878.





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WITNESSES MESCALLO ames J. Sheehy INVENTOR.

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ATTORNEYS.

UTITED STATES PATENT OFFICE.

JOHN W. BODGE, OF CANISTEO, NEW YORK.

IMPROVEMENT IN TIRE-UPSETTERS.

cification forming part of Letters Patent No. 202,220, dated April 9, 1878; application filed January 5, 1878.

To all hom it may concern:

Be known that I, John W. Bodge, of Canis b, in the county of Steuben and State of New brk, have invented a new and valuable In rovement in Tire-Upsetters; and I do hereb declare that the following is a full, clear, and exact description of the construction a loperation of the same, reference being h to the annexed drawings, making a part of this specification, and to the letters and file res of reference marked thereon.

Fig e 1 of the drawings is a side view of my m hine. Fig. 2 is a side view, and Fig.

3 is a respective detail, thereof.

This invention relates to tire-upsetters; and the notelty consists in the construction of the parts, will be hereinafter more fully set forth, and parted out in the claim.

The nnexed drawing, to which reference is made fully illustrates my invention.

A r resents the standard or frame of the machi e. B is the movable part of the upsetting drice, which moves on the arc of a circle. It is movable part or slide B has a stud, a, prospecting through a curved slot, x, in the stand da, and upon this stud is placed a thick asher, L, and a nut, b, screwed upon the er of the stud to hold said washer in place. The slide B is also provided with an angularm, B', projecting through slot x', and s a larm has a slot, d, as shown, working over a guided in its movement.

Cre resents a lever, triangular in form, with a pen int arm, C', extending downward between the angular arm B' and washer L, as shown in Fig. 1, and working upon a pivot or or joi hal pin, e. This lever C is provided at eit r end with a shear-blade, h, and a

punch .

The fine is in the center of the frame A, and the lever C thereon is actuated by means of a lever, E, so as to actuate the slide B; and said her C has the shear-blade h attached to it, as lown.

D is a part of the frame, made separate from d is bolted to the main frame A. At one either the frame D is recessed to receive the punch lide O.

in the operating-lever, pivoted in the up-

per part of the frame, and formed with a cam-groove, i, on the side near the edge, to to draw the lever C back by means of a hook, N, and also to draw the punch-slide O up by means of a hook, f.

The punch m is held in the slide O by a set-screw, k, passing through a slot in the

frame D.

On the slide B is an adjustable guard, G, to keep the tire from "buckling" while being upset. This guard is held at any height necessary by a set-screw, n.

On the frame A is a guard, H, fitting over that end of the lever C to which the shearblade h is attached, so as to prevent the same from spreading away from the lower knife or

blade h'.

I and I' are toothed scroll-levers, arranged, respectively, over the ledge p on the frame A and on the slide B to hold the tire down thereon. The cranks of these two levers are set so as not to interfere with each other in operation.

On the front edge of the frame A is formed a concavity, J, and upon the side of the lever E is a convex projection, K, fitting in said concavity when the lever is down, thus forming a band-bender.

M is the seat for the punch-block t.

The lever E is provided with a wrought-iron bar, F, bolted thereto to form a handle.

The advantages of this machine are as follows: The tire is held straight, without any possibility of slipping, and the guard G holds the tire from buckling or humping up.

By the construction of the lever C the shears open clear out, so that any shaped

piece of iron can be laid in.

The punch passes down through a round hole, so that in punching the end of an iron the iron cannot tip up and break the punch when it draws up. The bottom part of the frame D is used as a guard with the hole through it, and the punch is put in up through the punch-block seat.

The band-bender is in a convenient place, and has a straight side on the lever E to hold the iron against to keep it from winding or

twisting in bending.

The entire machine is comparatively small

and put up in compact form, takes up but little room, and is practical and efficient in operation.

I claim—

The slide B, provided with angular arm B' and stud a, with washer L, in combination with the arm C' of the lever C, all constructed as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN WORTHINGTON BODGE.

Witnesses:

H. C. LIDLIARD, S. P. MARSH.