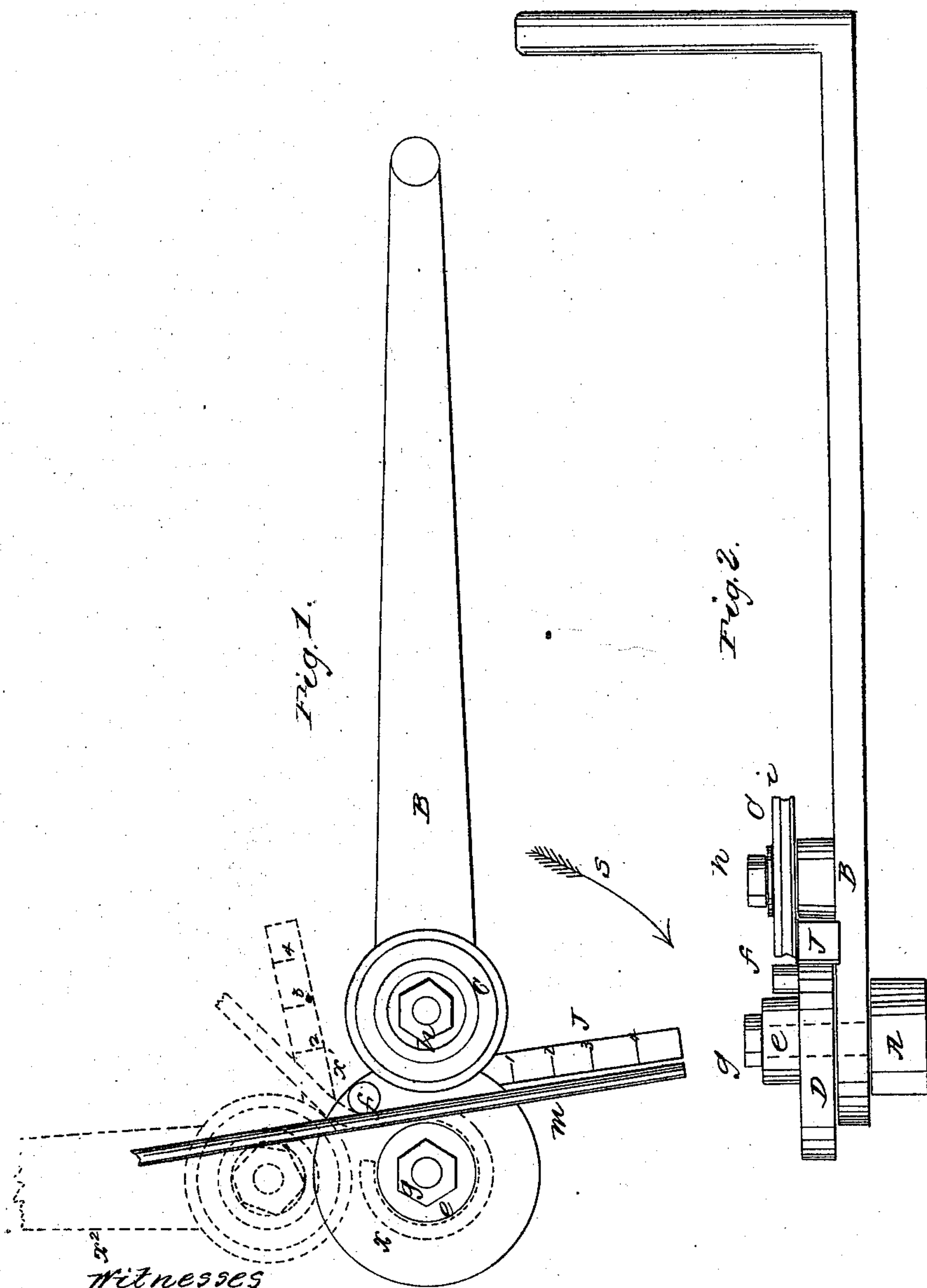


J. Miller,

*Forming Hooks or Eyes on Pot Bails,
N^o 83,522.*

Patented Oct. 27, 1868.



Witnesses

*James I. Johnston
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Inventor

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JACOB MILLER, OF WASHINGTON, PENNSYLVANIA.

Letters Patent No. 83,522, dated October 27, 1868.

IMPROVEMENT IN MACHINE FOR FORMING THE HOOK OR EYE ON POT-BAILS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JACOB MILLER, of Washington, in the county of Washington, and State of Pennsylvania, have invented a new and useful Improvement in Machine for Forming the "Hook" or "Eye" on Pot-Bails, &c.; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

The nature of my invention consists in the use of a mandrel, around which are formed the "hook" or "eyes" of pot-bails, &c., said mandrel being provided with a pivoted lever, furnished with a forming-roller and guide, said mandrel and lever being constructed, arranged, combined, and operating in the manner hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification—

Figure 1 is a top view or plan of my improvement in machines for forming the "hook" or "eyes" on the bails of pots, &c.

Figure 2 is a side elevation of the same.

In the drawings—

A is the pedestal of the machine, on which is pivoted the lever B, above which is placed a disk, D, provided with the mandrel *e* and guide-pin *f*. The disk D, with its parts *e* and *f*, is held in the desired position by means of the screw-nut *g*. The lever B is provided with a measuring-guide, J, and a forming-roller, *c*, provided with a groove, *i*, which is used for holding the wire or iron which forms the "hook" or "eyes" of the bail in the proper position while being bent around the mandrel *e*.

As the form, construction, and arrangement of the several parts of my improvement in machines for bending or forming the "hook" or "eye" on pot-bails, &c., will readily be seen and understood, by reference to the accompanying drawings, I will, therefore, without further description of its construction, proceed to describe its operation, which is as follows:

The wire or iron for forming the pot-bail, &c., is placed between the mandrel *e* and pin *f*, with the end of the wire or iron projected the desired distance along the guide J, as indicated by the rod *m*. The operator then forces the lever B around, in the direction indicated by the arrow marked 5, which will bring the roller *c* against the rod *m*, and, through the medium of it and the lever, the projecting portion of the wire or iron will be bent around the mandrel *e*, as indicated in red at *x*, and when the lever B and its roller are in the position shown by the red lines *x*², the reverse bend, *x*¹, will be given to the bail, through the medium of the roller *c* and pin *f*. The pin *f* may be made adjustable, and the size of the roller *c* changed, by the use of a series of rollers of different sizes, so as to adapt the machine to wire and iron of different size, used in forming pot-bails, &c.

Having thus described the nature, construction, and operation of my improvement,

What I claim as of my invention, is—

The disk *c*, provided with the mandrel *e* and pin *f*, combined with the lever B, furnished with a forming-roller, *c*, and guide J, constructed, arranged, and operating as herein described, and for the purpose set forth.

JACOB MILLER.

Witnesses:

A. O. JOHNSTON,
JAMES J. JOHNSTON.