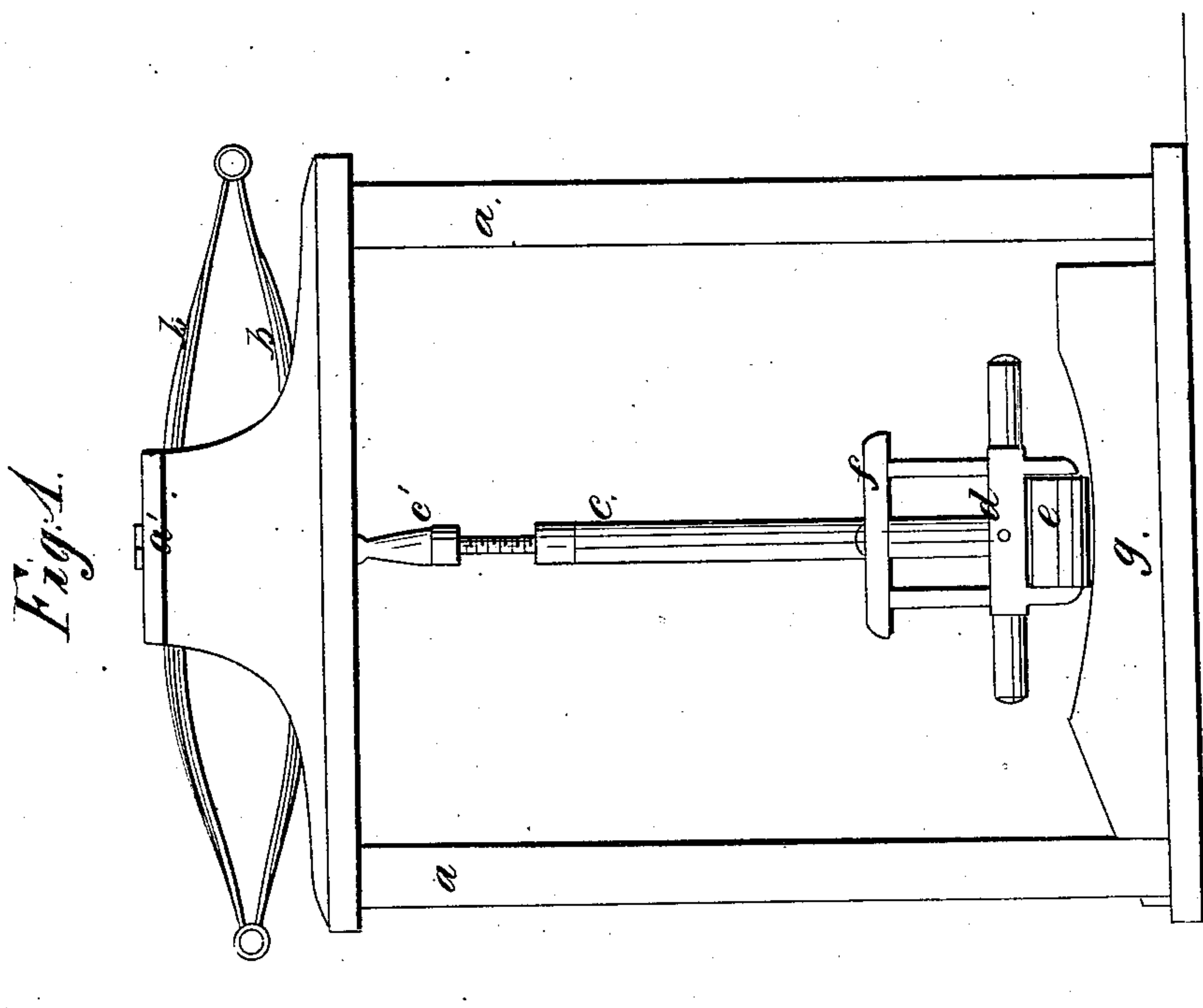
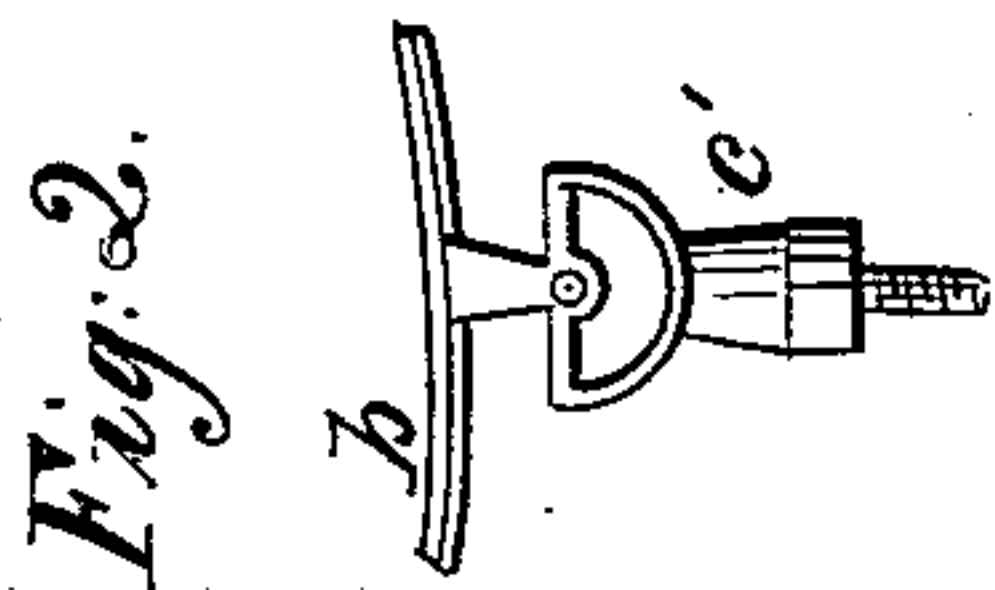


J. Gardner,
Dressing Leather,
N^o 3,055. Patented Apr. 25, 1843.



UNITED STATES PATENT OFFICE.

JOHN GARDNER, OF PETERSBURG, PENNSYLVANIA.

LEATHER ROLLER.

Specification of Letters Patent No. 3,055, dated April 25, 1843.

To all whom it may concern:

Be it known that I, JOHN GARDNER, of Petersburg, in the county of Adams and State of Pennsylvania, have invented a
5 new and useful Improvement in Machines for Rolling Leather; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which
10 forms a part of this specification.

Figure 1 being a geometrical side elevation; Fig. 2, the universal joint and upper part of the arm detached.

The nature of my invention consists in
15 the application of springs, instead of the beam and treadle; the power being increased or diminished at pleasure, by lengthening or shortening the arm by means of a screw.

20 In constructing my machine a suitable frame (*a*) is formed at the center of which, across the top, there is a cross piece (*a'*), under this cross piece an elleptic spring (*b*) formed like a common elleptic carriage
25 spring is affixed. To the under half of said spring a universal joint is connected (more clearly shown in Fig. 2) by which a vertical arm (*c* and *c'*) is joined to it; this arm is in two parts divided horizontally,
30 the lower one (*c*) having a hole in its up-

per end into which a female screw is inserted; the upper one is furnished with a male screw by which the two arms are connected, and kept the required distance apart. On the lower end of the arm a transverse
35 bar (*d*) is jointed which has a handle at each end either of which can be elevated the other being depressed; from this bar two projections descend which serve for bearings for the journals of a roller (*e*) there may
40 be also a framework (*f*) attached to the bar above to steady it. Below the roller (*e*) above named, on the foundation of the frame of the machine there is a concave (*g*)
45 of the usual construction.

To operate this machine a side of leather is placed on the concave and the roller (*e*) is drawn back and forth over every part of it the proper pressure being regulated by
50 lengthening or contracting the arm.

What I claim as my invention is—

The combination of the elleptic spring (*b*) with the leather roller (*e*); in the manner described or in any other manner substantially the same.

JOHN GARDNER.

Witnesses:

SAML. A. McCOSH,
ARCHIBALD LOVE.