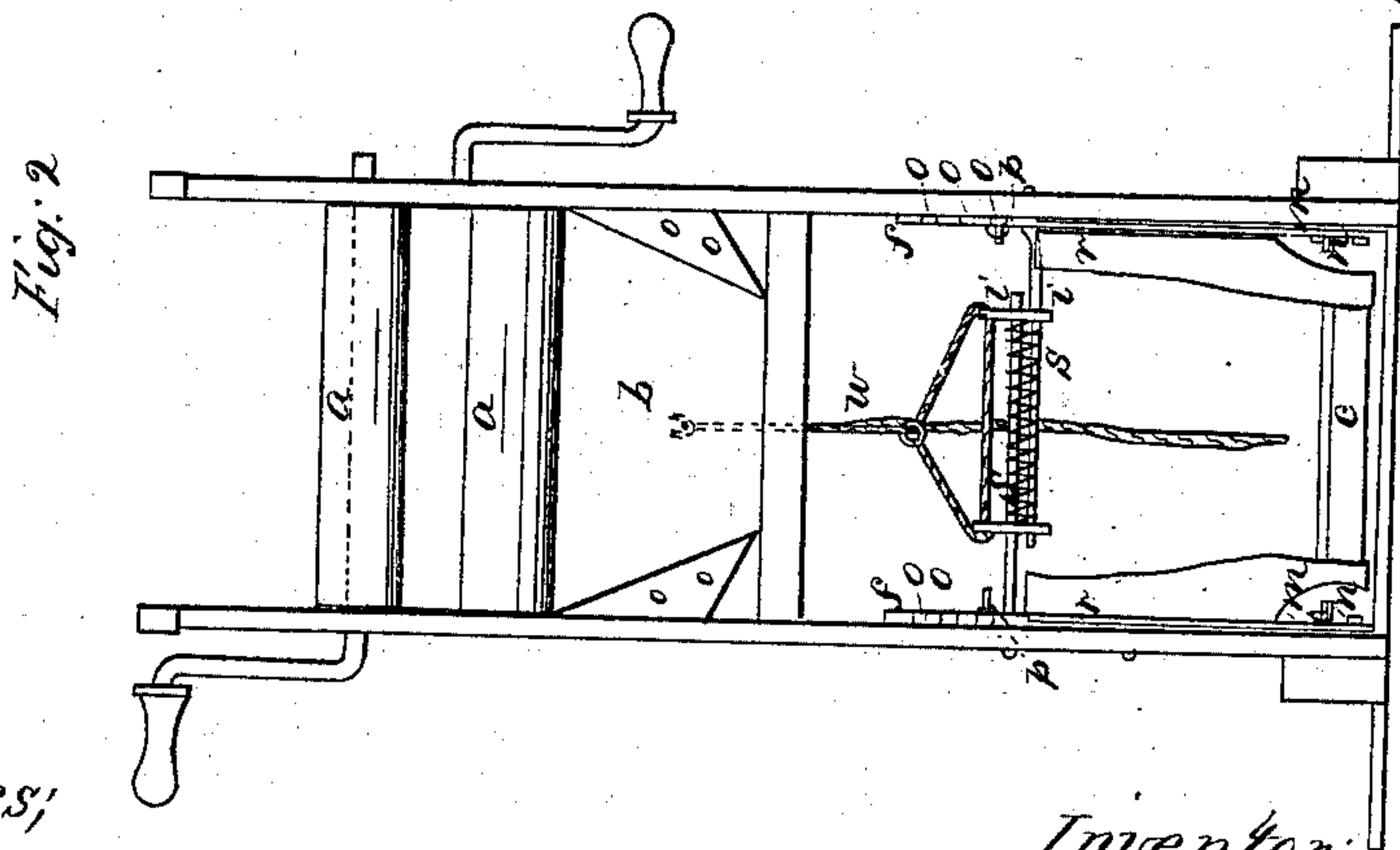
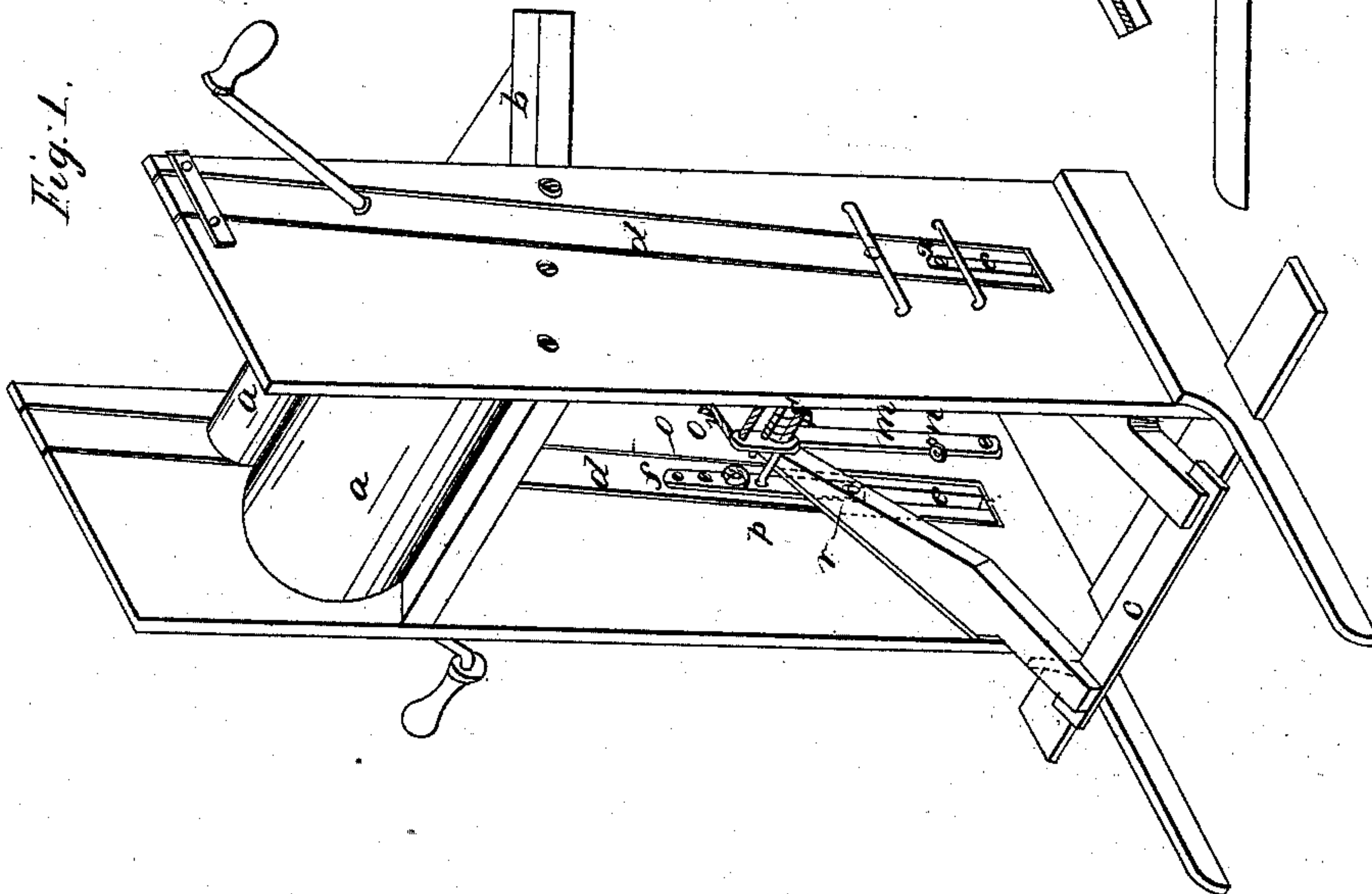
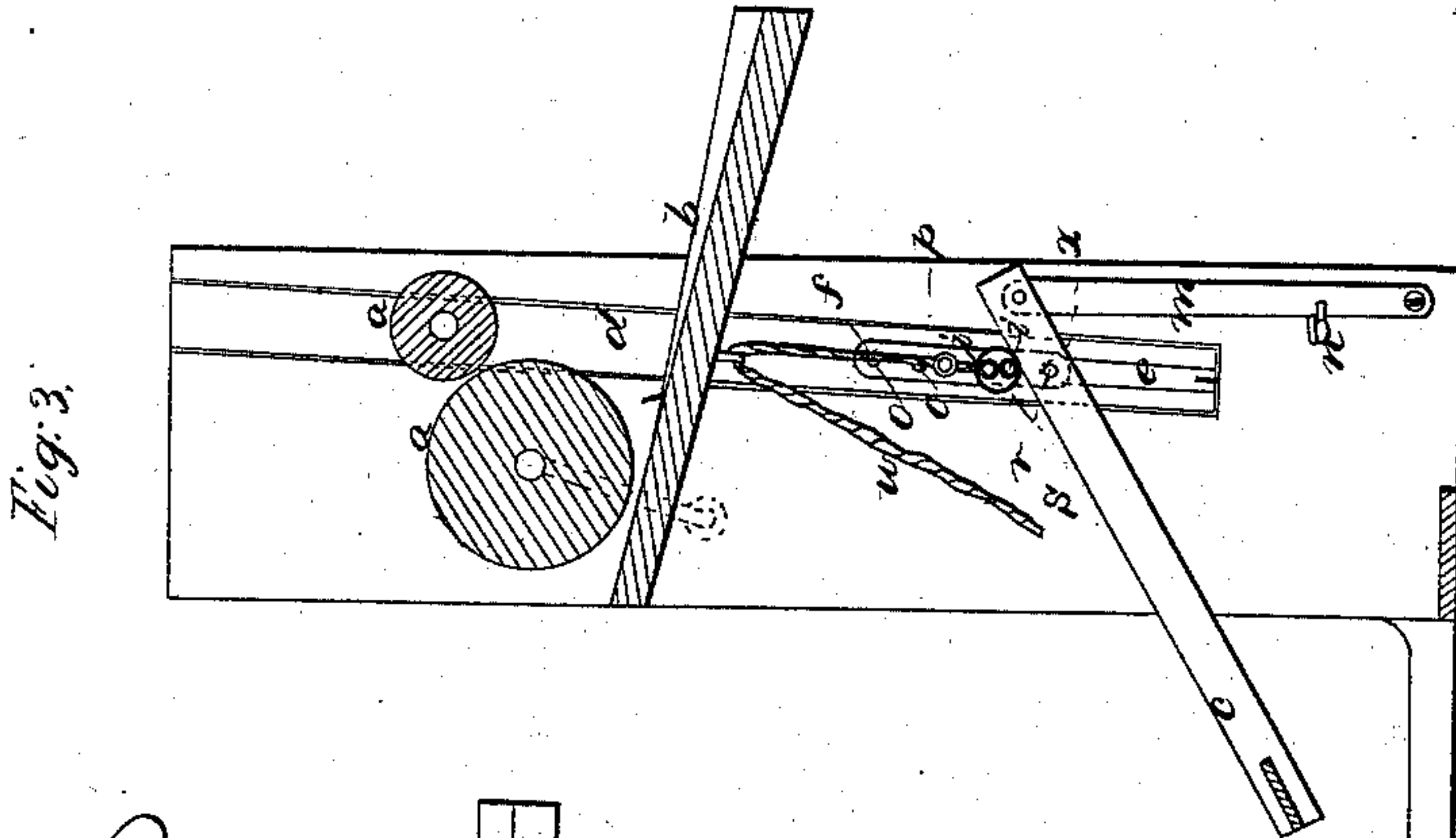


E. Spalding,

Wringer,

N^o 32,090.

Patented Apr. 16, 1861



Witnesses;

*H. C. Boardman
R. H. W. Heunick*

Inventor:

*Ezraah Spalding
By his attorney Chas. Macon*

UNITED STATES PATENT OFFICE.

EZARIAH SPALDING, OF MORRISVILLE, VERMONT.

CLOTHES-WRINGER.

Specification of Letters Patent No. 32,090, dated April 16, 1861.

To all whom it may concern:

Be it known that I, EZARIAH SPALDING, of Morrisville, in the county of Lamoille and State of Vermont, have invented a new and
5 useful Improvement in Clothes-Wringers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference
10 marked thereon.

My invention relates to that form of clothes wringers which are composed in part of rollers through which the clothes after being washed are passed for the purpose of
15 having the water pressed out of them previous to their being spread out to dry. The machine is to be attached to the wash tub in any of the usual methods used for that purpose.

20 Figure 1, is a perspective view of the machine. Fig. 2, is an elevation of the same, as seen from its rear side. Fig. 3, is a vertical section of the same along the line *v, v*, of Fig. 2.

25 *a, a*, are rollers between which the clothes are passed, to each of which a crank may be attached for the purpose of operating them.

30 *b*, is a spout extending over the wash tub so as to prevent any of the water from being spilled.

c, is a treadle to be operated by the foot for the purpose of regulating the pressure of the rollers upon each other at will, as shown hereinafter.

35 *d, d*, are slides fixed in opposite sides of the machine. The bearings of the upper roller are fixed in these slides respectively. At its lower extremity, each of these slides has a slot *e, e*, to receive a stud projecting
40 outward from the lower end of a piece of metal *f, f*. This piece of metal is perforated with several holes *o, o, o*, arranged in pairs on opposite sides. Into any of these holes, the pins *p, p*, which are firmly set in the
45 corresponding slides are made to penetrate for the purpose of adjusting the distances between the rollers *a, a*. The pieces of metal *f, f*, are only attached to the respective slides, by these pins and by the studs which work in the slots *e, e*. Each of these metal pieces
50 *f, f*, is arranged with an arm *i, i*, having a cross head which is furnished with a guide hole to receive the opposite arm. Between these cross-heads and surrounding

both these arms, is the spiral spring *s*, in- 55 tended for keeping the arms pressed firmly outward against the slides *d, d*, so that these metal pieces shall remain immovably fixed upon these slides by means of the pins and studs above mentioned except when it is de- 60 sired to adjust them in the manner herein-after described.

m, m, are two arms, each of which is attached to the side of the machine by means of a screw or pin placed at its lower ex- 65 tremity. They are pressed outward by means of the coiled springs *n, n*, and thus held firmly attached to the side. The treadle is attached to the metal pieces *f, f*, at the fulcrum *r, r*. The short end of the lever 70 thus formed and which projects beyond the fulcrum is attached to the upper end of the arms *m, m*, by toggle joints at *t, t*.

When it is desirable to change the distance between the rollers, the metal pieces *f, 75 f*, are pressed inward to release them from the hold of the pins *p, p*, when they may be either raised or lowered along the slides till they reach a hole at the proper point. The spiral spring is then left to operate, which 80 immediately presses them outward against the slides.

w, is a cord showing one method in which the tops of these pieces may be drawn together by being pulled by the hand of the 85 operator. Other modes of effecting the same object will readily suggest themselves to any mechanic.

It is evident that instead of adjusting the machine by means of the series of holes *o, 90 o, o*, in the metal pieces *f, f* such adjustment may be made by means of a similar series of holes made at the lower end of the arms *m, m* into corresponding pairs of which the pins which attach those arms to the sides of 95 the machine may be shifted from one to the other by means substantially like those above described. It is also evident that the sides *d, d* may be pressed downward by means of springs to aid the effect of the treadle or to 100 dispense with its use altogether; or springs may be used for the purpose of raising those slides upward whenever the pressure upon the treadle is released.

I am aware that rollers made of wood or 105 covered with india rubber or other elastic substance have long been in use for this and other analogous uses and that a treadle has

also been employed for like purposes. Therefore I make no claim to either of these contrivances taken by itself. But

What I do claim as new and desire to secure by Letters Patent is—

1. The combination of the treadle *c*, with the arms *m*, *m*, and slides *d*, *d*, arranged and operating as above described, and for the purposes set forth.

2. The combination of the metal pieces *f*, *10* *f*, with the slots *e*, *e*, and spring *s*, constructed and operating in the manner and for the purpose above shown.

EZARIAH SPALDING.

Witnesses:

A. C. BOARDMAN,

O. C. HAZEN.