

T. TRACY.
Machine for Making Staples.

No. 218,601.

Patented Aug. 12, 1879.

Fig. 1.

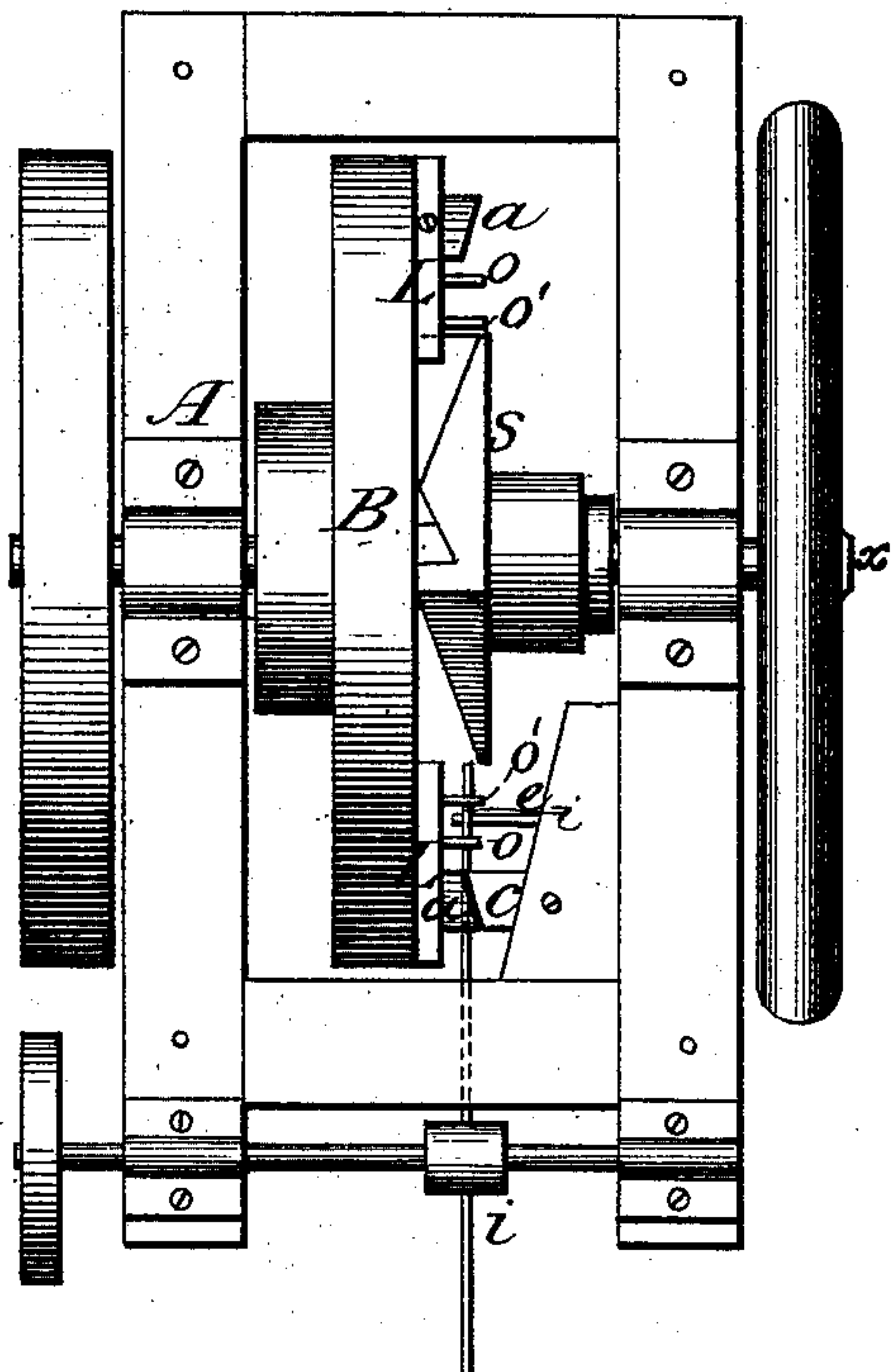


Fig. 2.

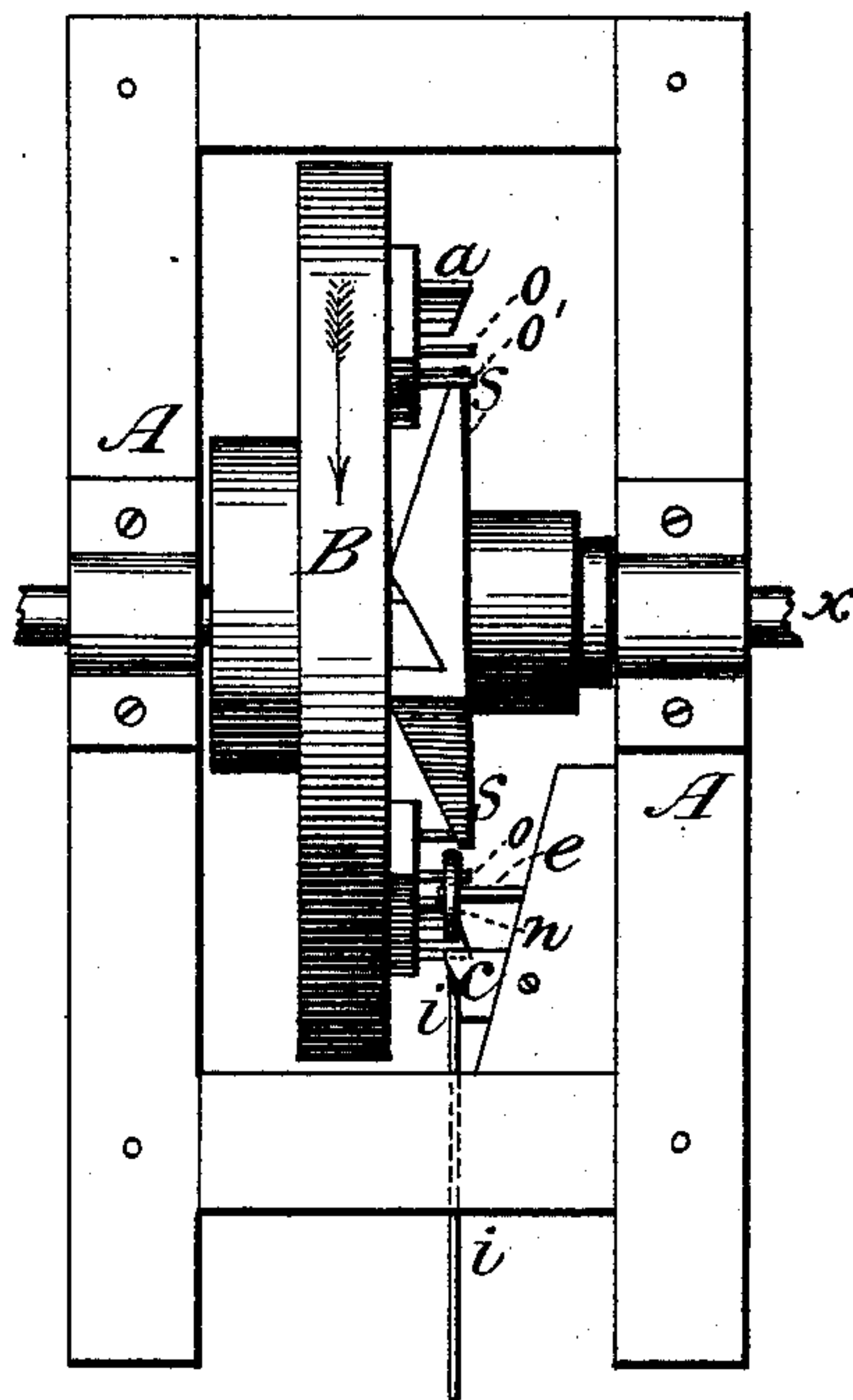


Fig. 3.

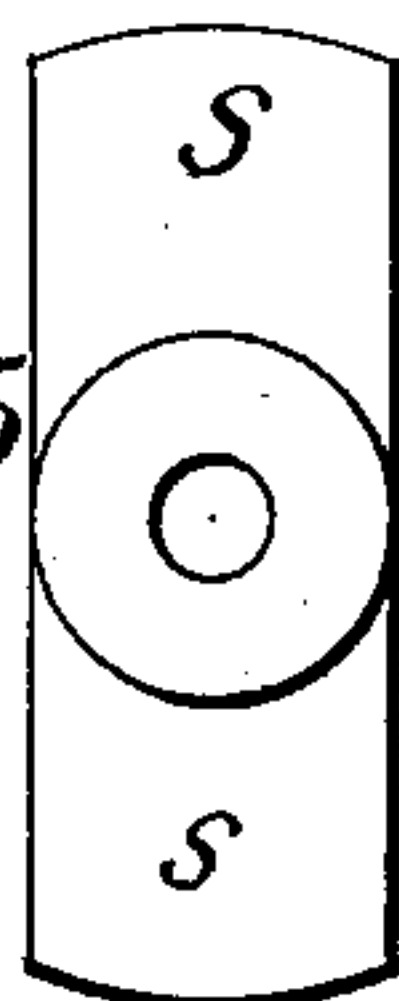
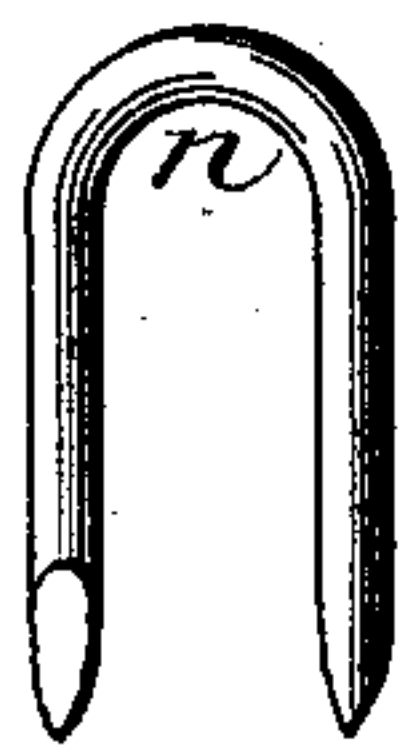
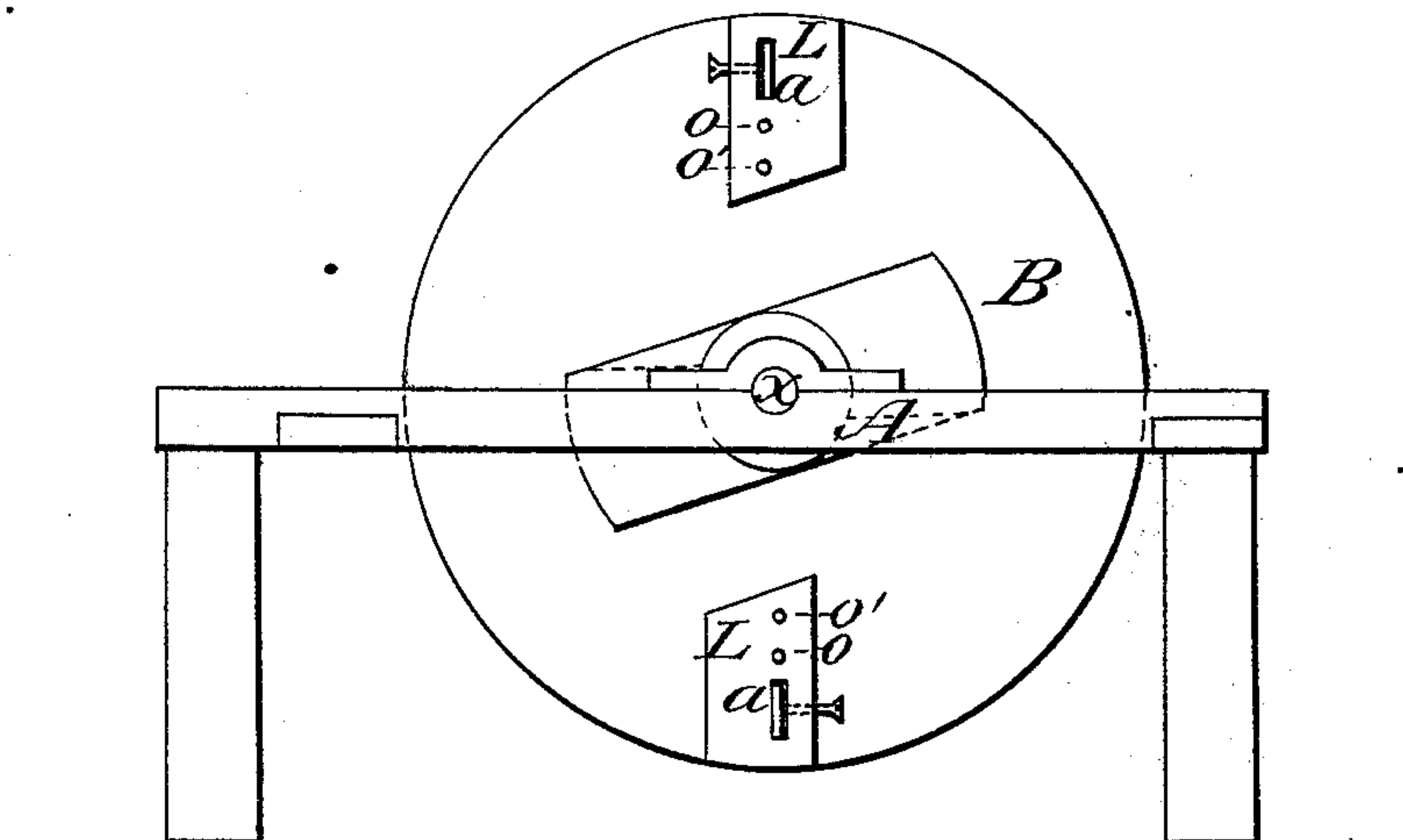


Fig. 5.

Fig. 4.



Attest:

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UNITED STATES PATENT OFFICE

THOMAS TRACY, OF JOLIET, ILLINOIS.

IMPROVEMENT IN MACHINES FOR MAKING STAPLES.

Specification forming part of Letters Patent No. **218,601**, dated August 12, 1879; application filed June 22, 1878.

To all whom it may concern:

Be it known that I, THOMAS TRACY, of the city of Joliet, in Will county and State of Illinois, have invented a Machine for Making Metal Staples; the construction and operation of which I will proceed to explain, reference being had to the annexed drawings, making a part of this specification, in which—

Figures 1 and 2 are plan views of the machine; Fig. 3, a side view of a metal staple; Fig. 4, a side elevation of the machine, and Fig. 5 a side elevation of the rotary discharging-cam.

The object of my invention is to cut and bend a metal staple to the shape shown at Fig. 3 at one operation.

In the drawings, A represents a rectangular frame supporting a shaft, *x*, upon which the cutting-knives *a* are carried by the disk B, through which disk the shaft *x* passes, as is shown in Figs. 1 and 2. The disk B has on one side two projections, L, opposite to each other, as shown in Fig. 4, which carry the knives *a*, which as the disk rotates pass near enough to the permanent die or knife *c*, so that as the wire *i* passes into the machine, as shown in Fig. 1, it is cut off in a diagonal manner, as shown in Fig. 3, to leave the ends sharp. After the required length of wire is cut off it is caught on the pin *e*, around which it is bent by the two pins *o* and *o'*, Fig. 1, where it hangs until shoved off by the rotary discharg-

ing-cam S, which as it rotates passes in behind the staple *n* and throws it off, as shown in Fig. 2. The machine cuts off and bends two staples at each revolution, although the cutting devices and the cams may be multiplied to as great an extent as may be desired.

It will thus be seen that a perfect staple, sharpened and bent in proper shape, is formed at one and the same operation without the use of auxiliary machinery, as is usually the case.

I am aware that bending-pins similar to those employed in this machine have been used, but not in combination with a cam, S, for the purpose of throwing the bent staple off the pin *e*. The novelty in my invention therefore consists in the use of this cam S to throw the staple off out of the way to give place to the next one in order.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows, to wit:

The combination of the shaft *x*, disk B, stationary pin *e*, bending-pins *o* and *o'*, diagonal cutting-shears *a c*, and rotary cam S, for the purpose of throwing the staple off the pin *e*, all arranged to operate substantially as set forth.

THOMAS TRACY.

Witnesses:

THOS. H. HUTCHINS,
C. A. GROSS.