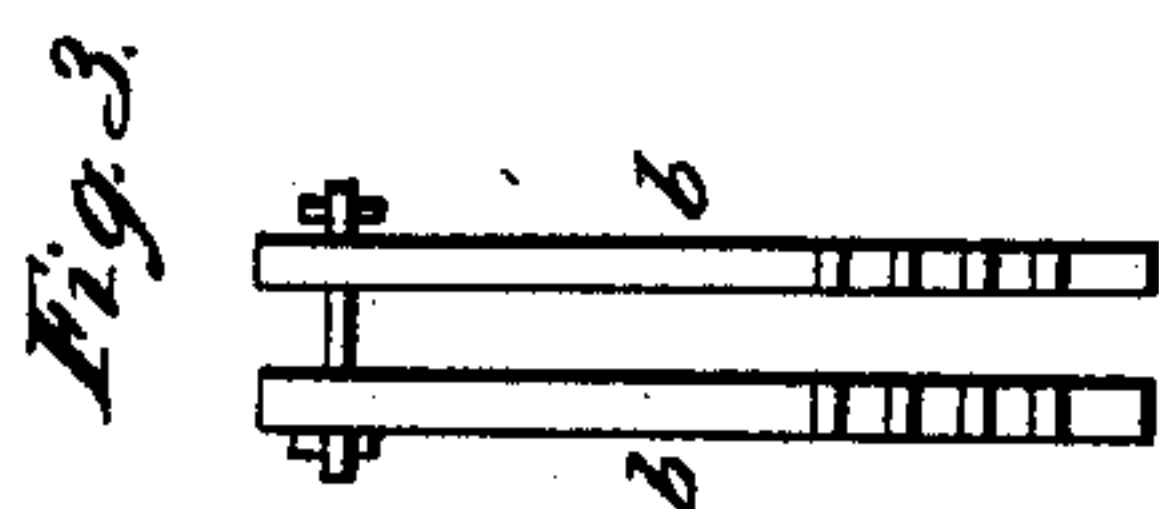
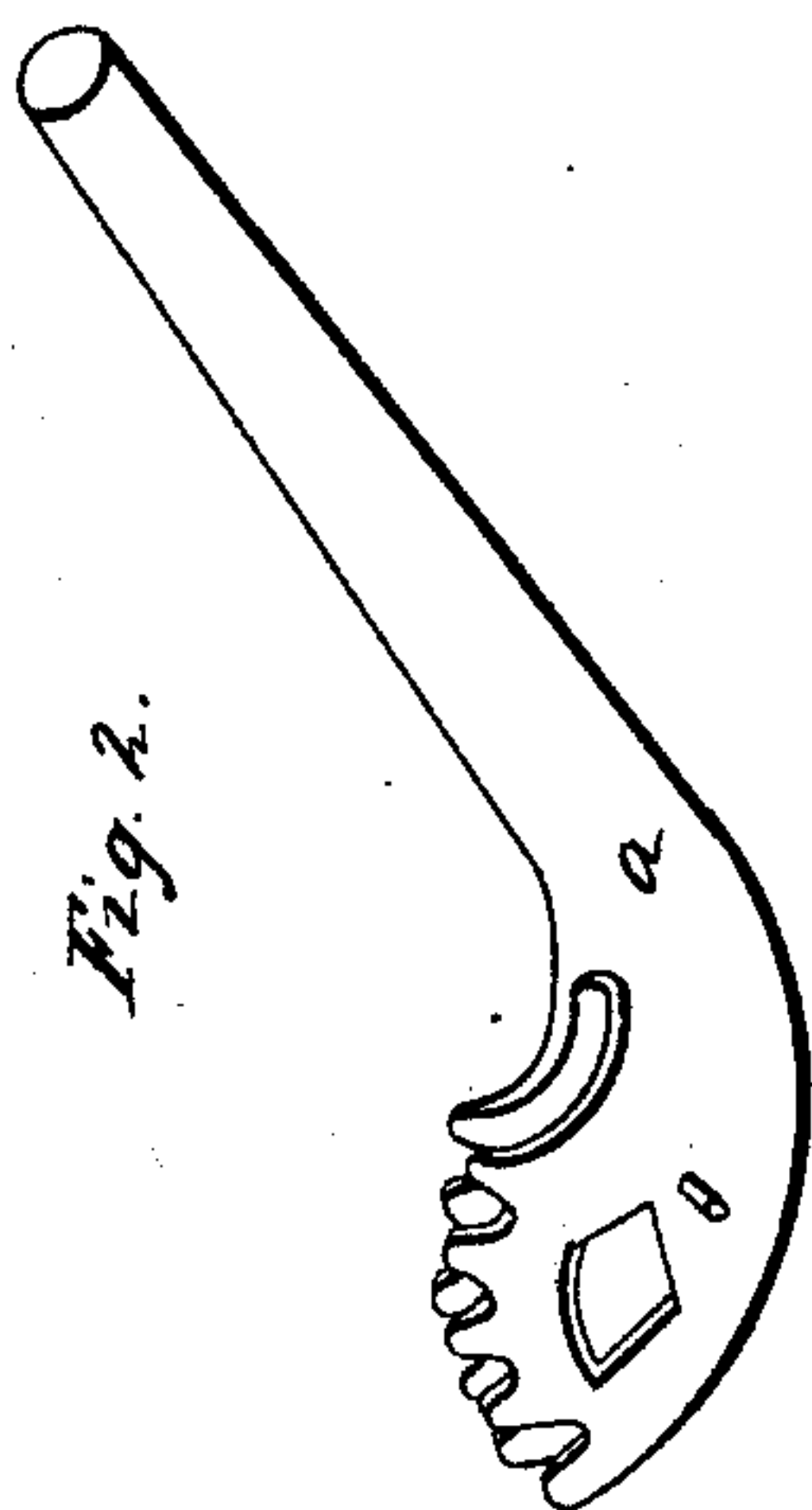
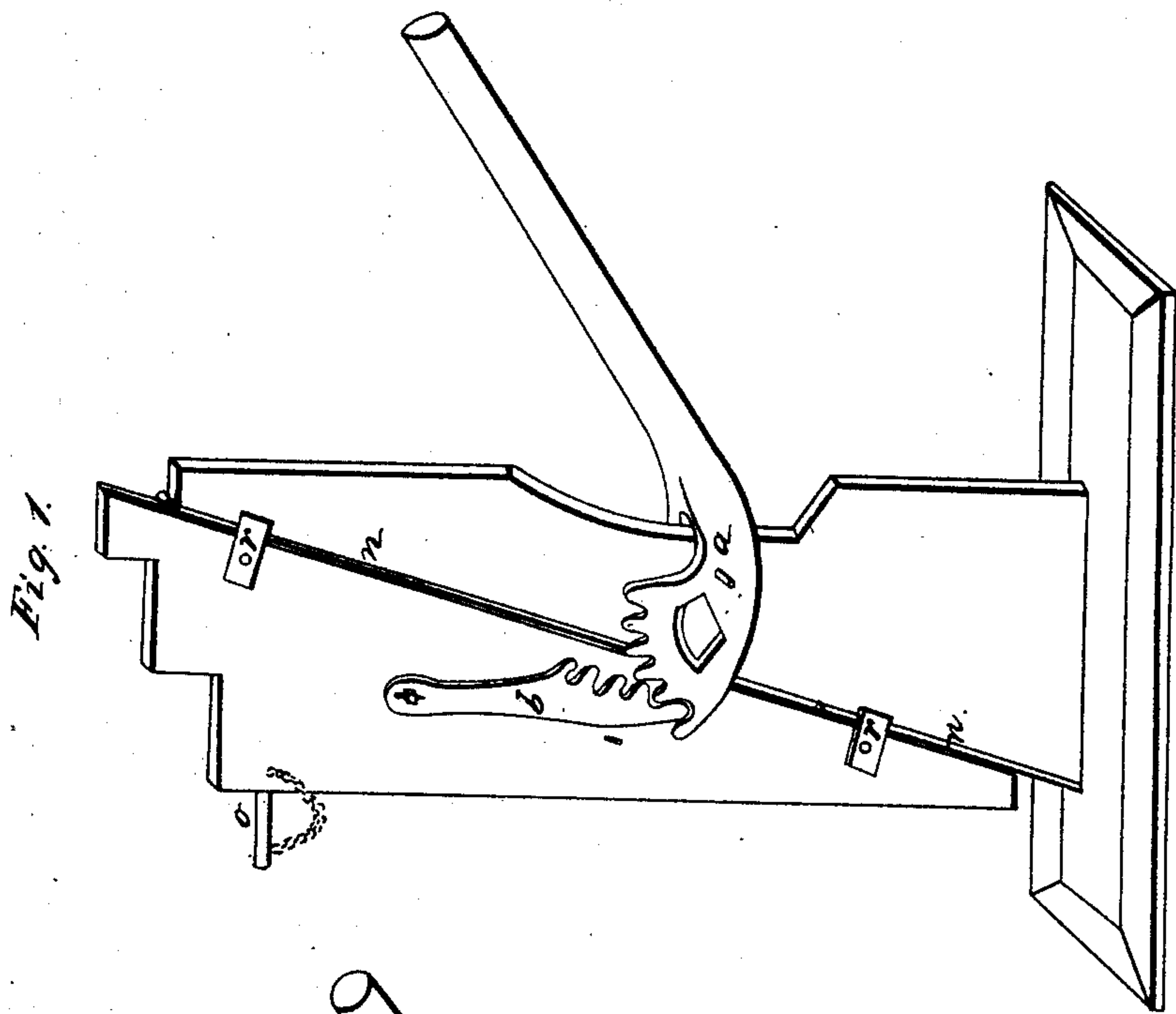


T. S. Harris,
Wagon Jack,
No. 69,804, *Patented Oct. 15, 1867.*



Witnesses:
Thos. H. Hutchins
C. F. Gutzner

Inventor:
Thomas S. Harris

United States Patent Office.

THOMAS S. HARRIS, OF LOCKPORT, ILLINOIS.

Letters Patent No. 69,804, dated October 15, 1867.

IMPROVEMENT IN WAGON-JACK.

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

Be it known that I, THOMAS S. HARRIS, of the town of Lockport, in Will county, and State of Illinois have invented a new and useful Improvement on a Wagon-Jack; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figures 2 and 3, perspective views of a part.

The particular improvements I claim to have made are, first, the use of the double ratchet *a* acting conjointly upon the lifting-pawls *b b*, swung upon the pivot at the upper ends, as shown. I am aware of the use of a similar mechanism to this, in this respect, that other jacks have been used having the lifting apparatus and power all attached to one side of the jack, while this raises on both sides, being an improvement over others in lifting upon each end of the pivots *c* and *x*, does not break them out or split the wood of the jack, lasts longer, and is of more utility and strength than others. Second, instead of cutting a groove in the sides of the jack for the guides *r r* to run in, I use the metal strips *n n* projecting at the sides to engage with the guides, which makes the jack more durable. The pin *o* is used in a row of holes on that side of the jack, to accommodate itself to a low axle.

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

Claim.

What I claim as new in my invention, and desire to secure by Letters Patent, is—

The peculiar and particular combination and arrangement of the parts described, as and for the uses and purposes set forth.

THOMAS S. HARRIS.

Witnesses:

THOS. H. HUTCHINS,
H. RUSSELL.