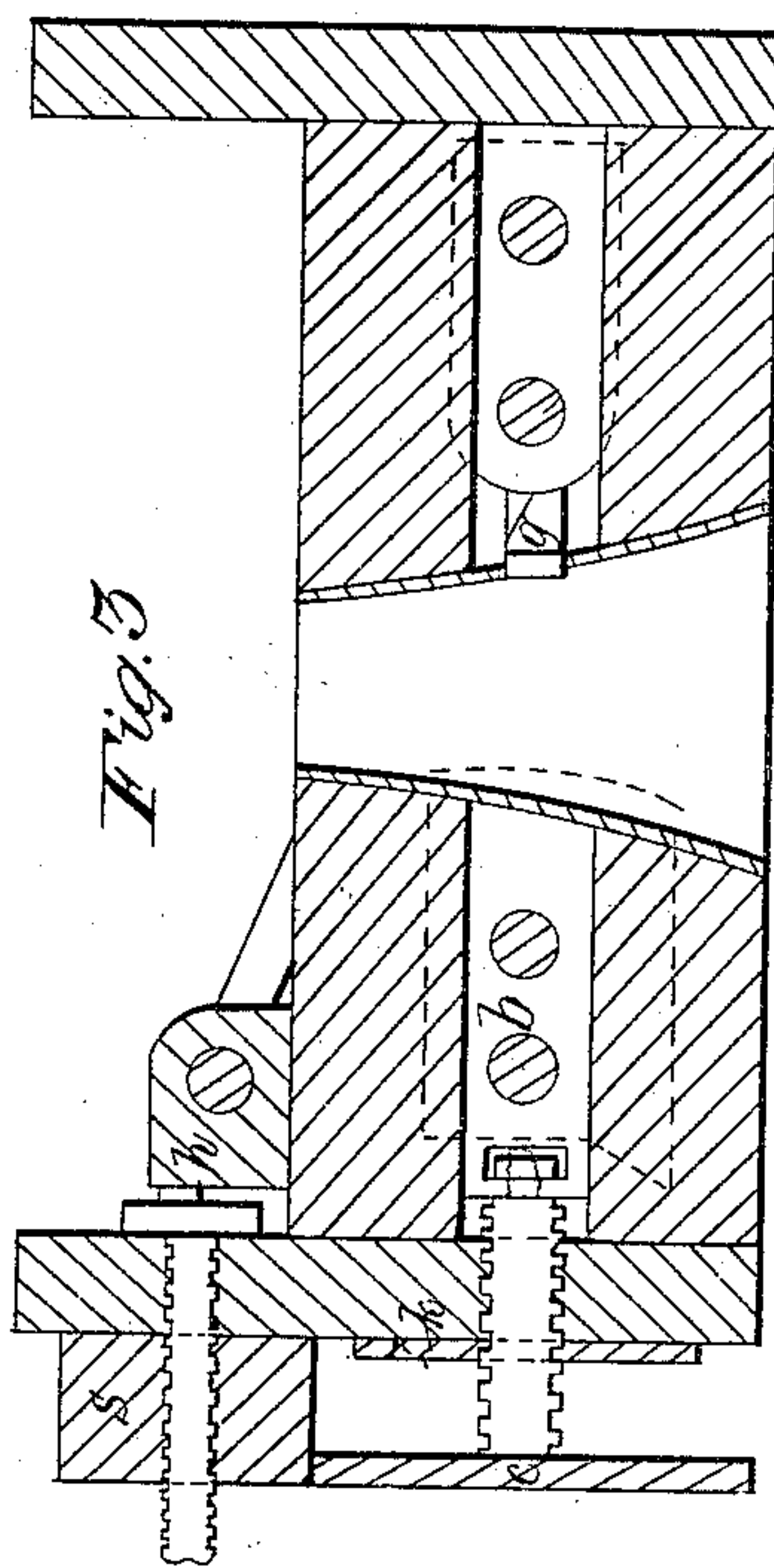
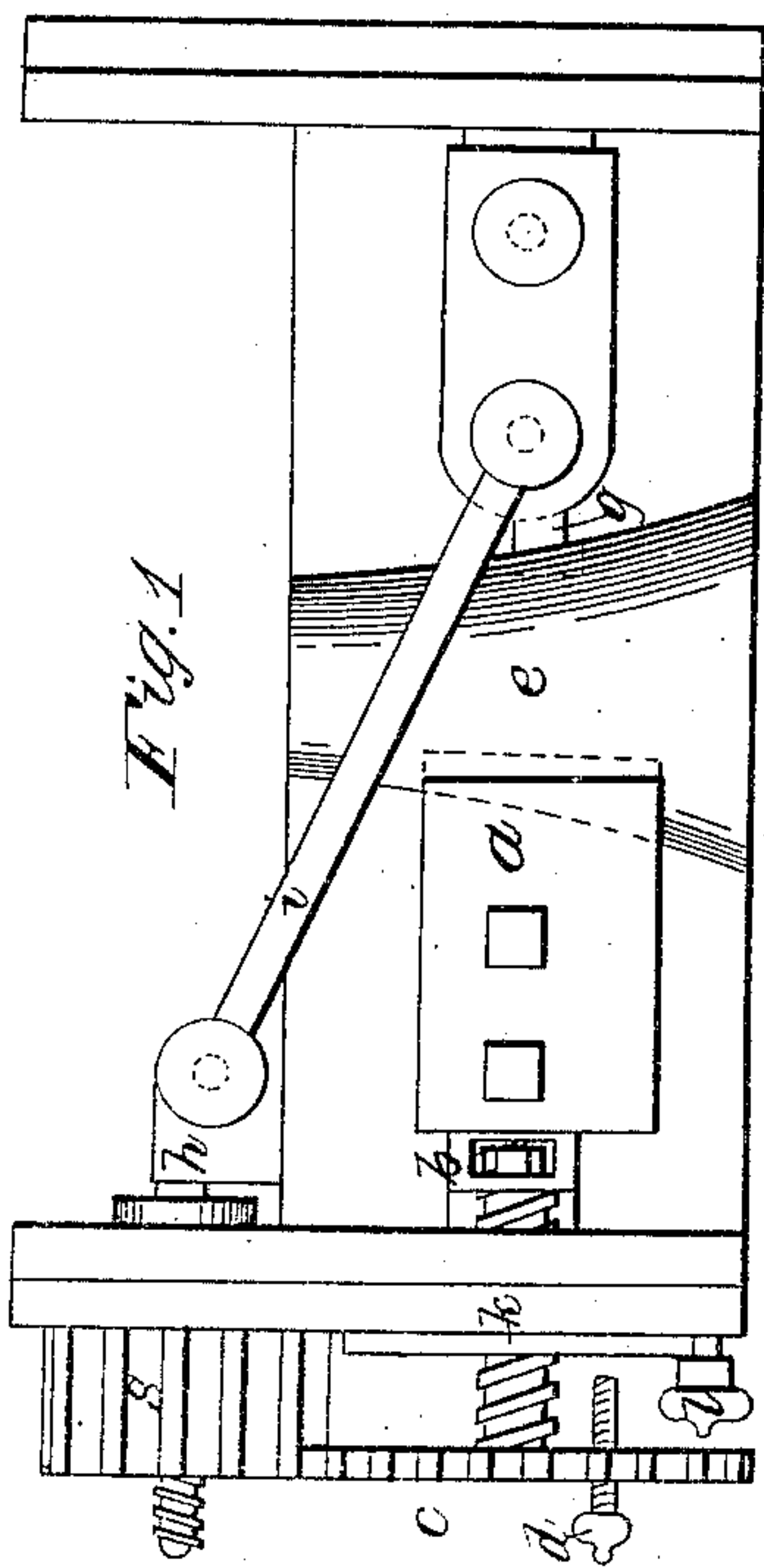
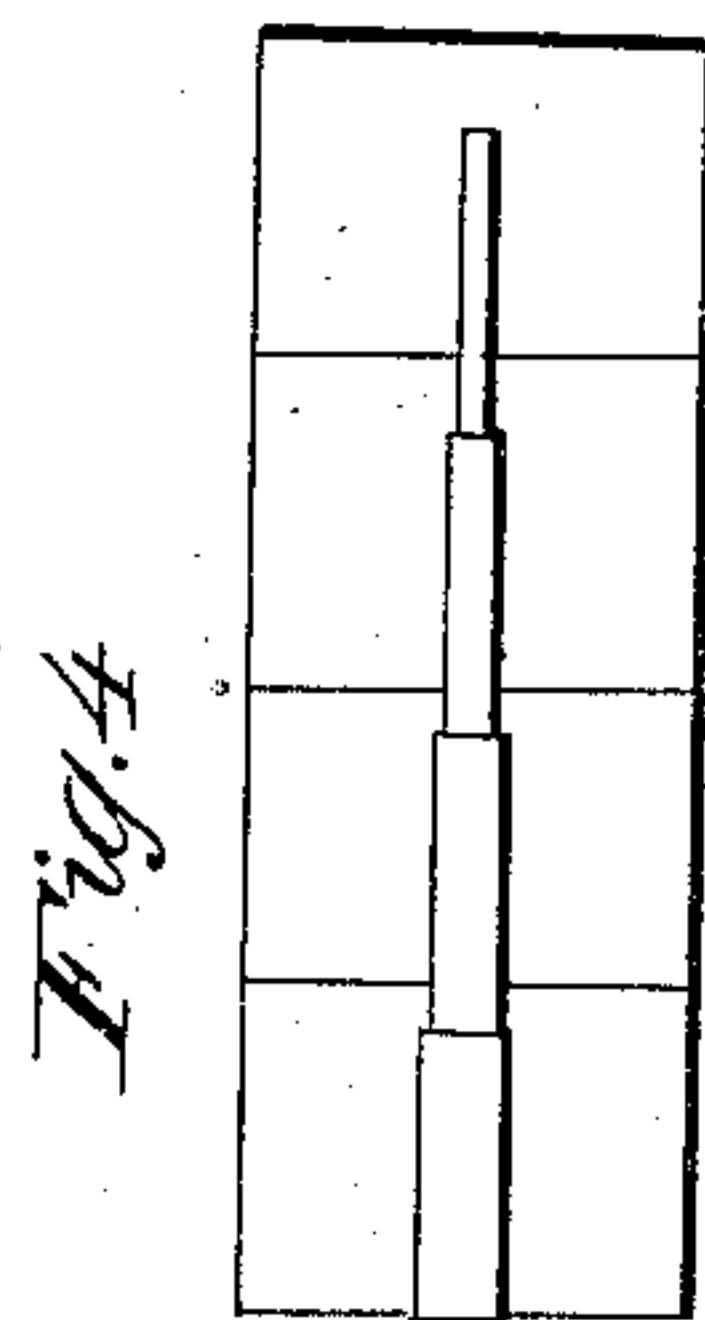
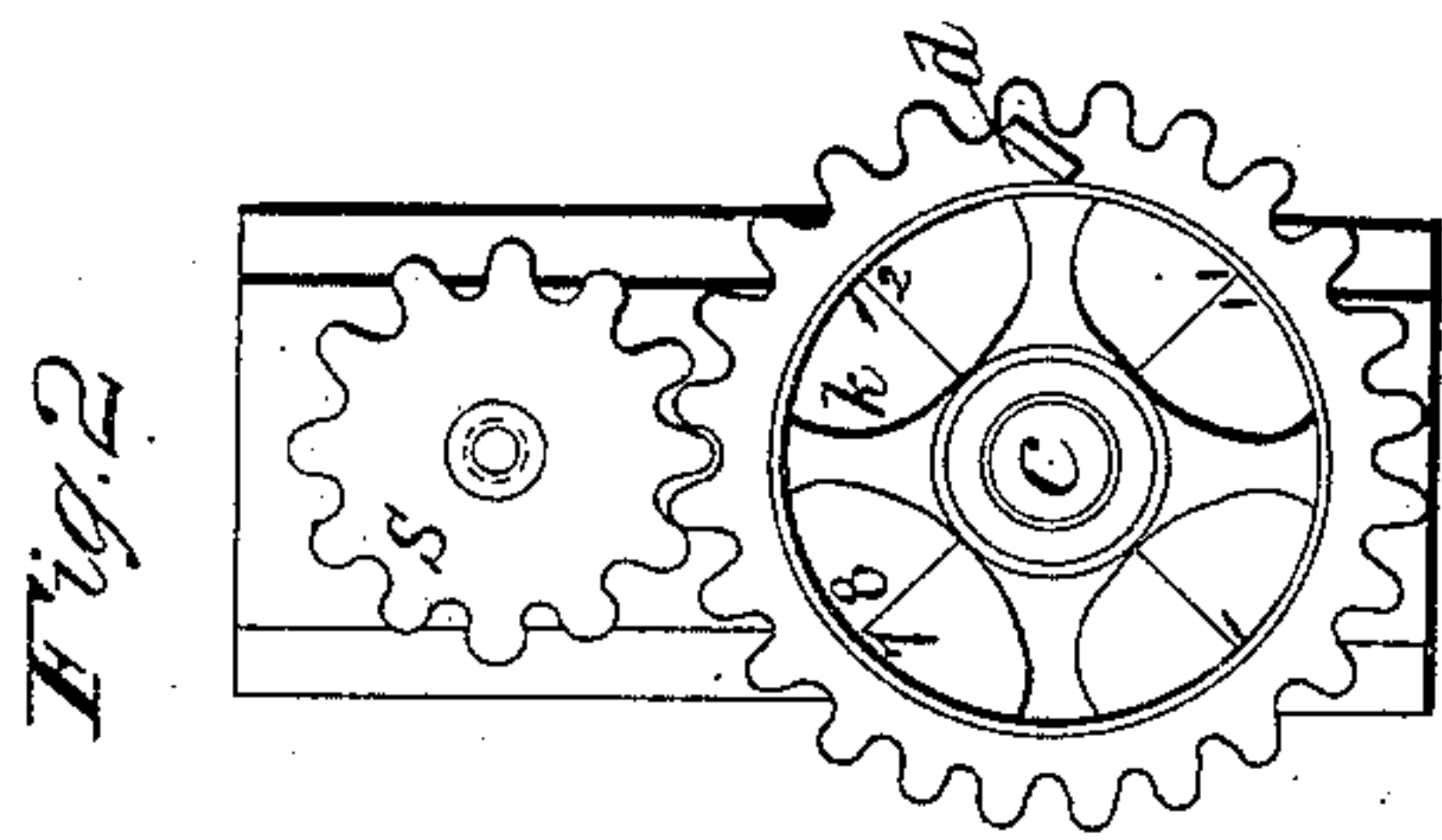


*N. L. Tomlinson,*  
*Making Wooden Pins.*  
*N<sup>o</sup> 78,554. Patented June 2, 1868.*



*Witnesses:*  
*James Moore*

*Inventor:*  
*N. L. Tomlinson*

# United States Patent Office.

NATHANIEL L. TOMLINSON, OF NEW YORK, N. Y.

*Letters Patent No. 78,554, dated June 2, 1868.*

## IMPROVEMENT IN MACHINES FOR MAKING TREENAILS.

*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, NATHANIEL L. TOMLINSON, of the city of New York, in the State of New York, have invented a new and useful Treenail-Machine, for the turning of treenails, having in their length several diameters, so that when driven into the timber they make close shoulder-fitting plugs; and I do hereby declare that the following is 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 front view,

Figure 2 is an end view,

Figure 3 a longitudinal section, and

Figure 4 a view of the treenail, cut by this machine, inserted in the timbers.

In these drawings I have not shown the frame of the machine with its bands and pulleys, as I have deemed it to be unnecessary, as all mechanics understand the construction and arrangement of such appliances.

I construct my improvement of iron, attaching the knife, *a*, to a slotted slide, *b*, worked by a screw-wheel, *c*, with a thumb-screw, *d*, for setting the same. Opposite the knife *a*, which works in the box or cup *e*, I set or fix a gauge-rest, *g*, which is connected to the sliding screw *h* by means of the connecting-rods *i i*. The slotted knife-slide is worked by the screw-wheel *c*. Behind this screw-wheel *c* I set a gauge-disk, *k*, operated and set by the thumb-screw *l*. Playing into the screw-wheel *c* is another screw-cog wheel, *s*, working upon a reversed thread.

The stick, out of which the treenail is to be made, being inserted in the cup or box *k*, the knife *a* having been adjusted so as to give the required diameter, the gauge-rest *g* having, by the same movement, approached the knife, by one-quarter of a turn of the wheel *c* another size or diameter is obtained, and so on to any required diameter, and thus, as it were, a short driving treenail is made of a long one, the timber being first bored by augers of a size corresponding to the several diameters of the treenail, and when driven in makes a close shoulder-fitting plug or fastening, as shown in fig. 4.

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

The combination of the slotted slide *b*, holding the adjustable knife *a*, the movable gauge-rest *g*, its connecting-rods *i i*, sliding screw *h*, the two screw-wheels *c* and *s*, with the gauge-disk *k*, constructed and arranged substantially as hereinbefore described.

N. L. TOMLINSON.

Witnesses:

JAMES MOORE,

WM. B. WIGGINS.