

J. H. Rowe,
Spinning Machine.

No. 70,622.

Patented Nov. 5. 1867.

Fig. 1.

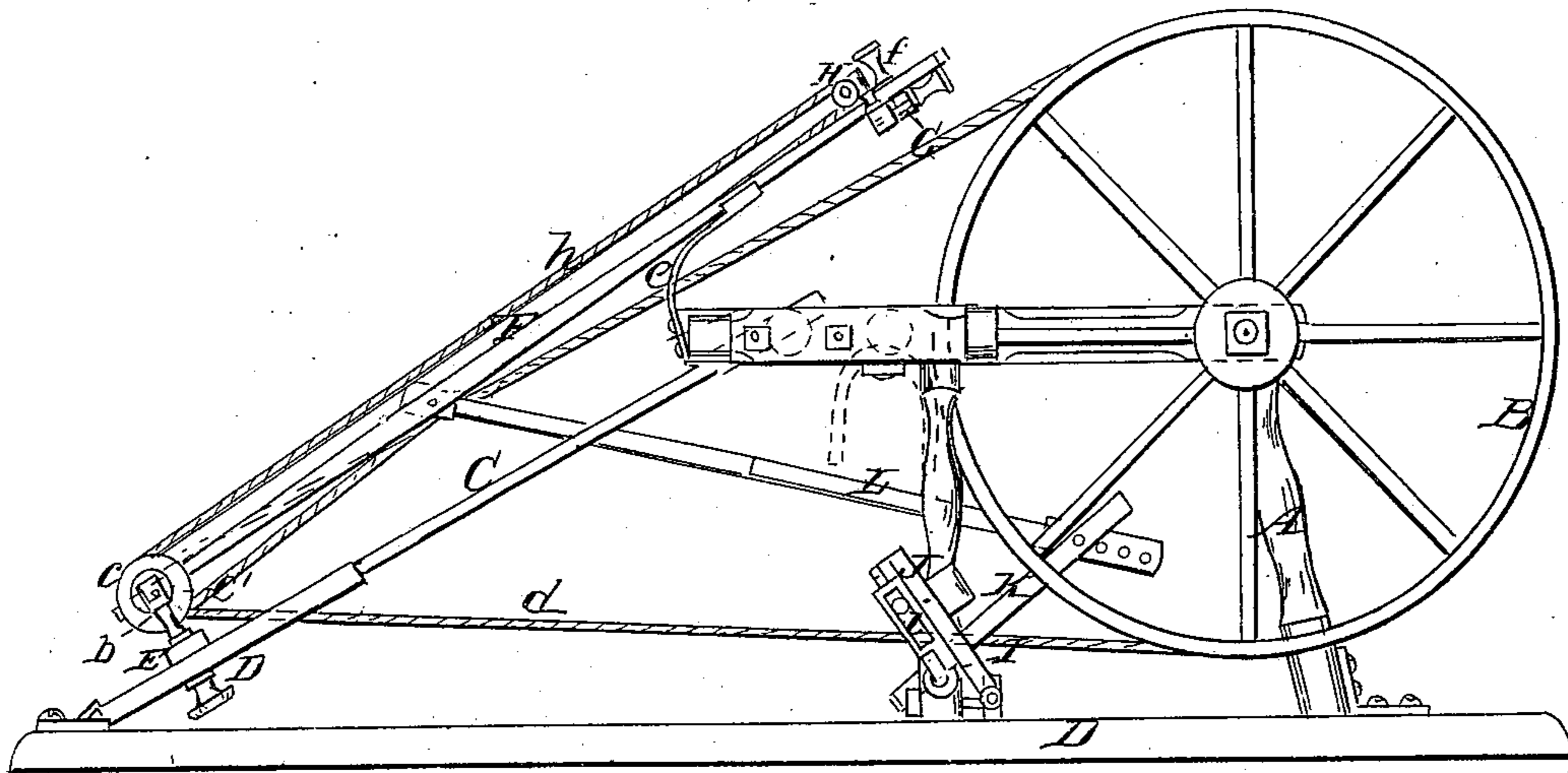


Fig. 2.

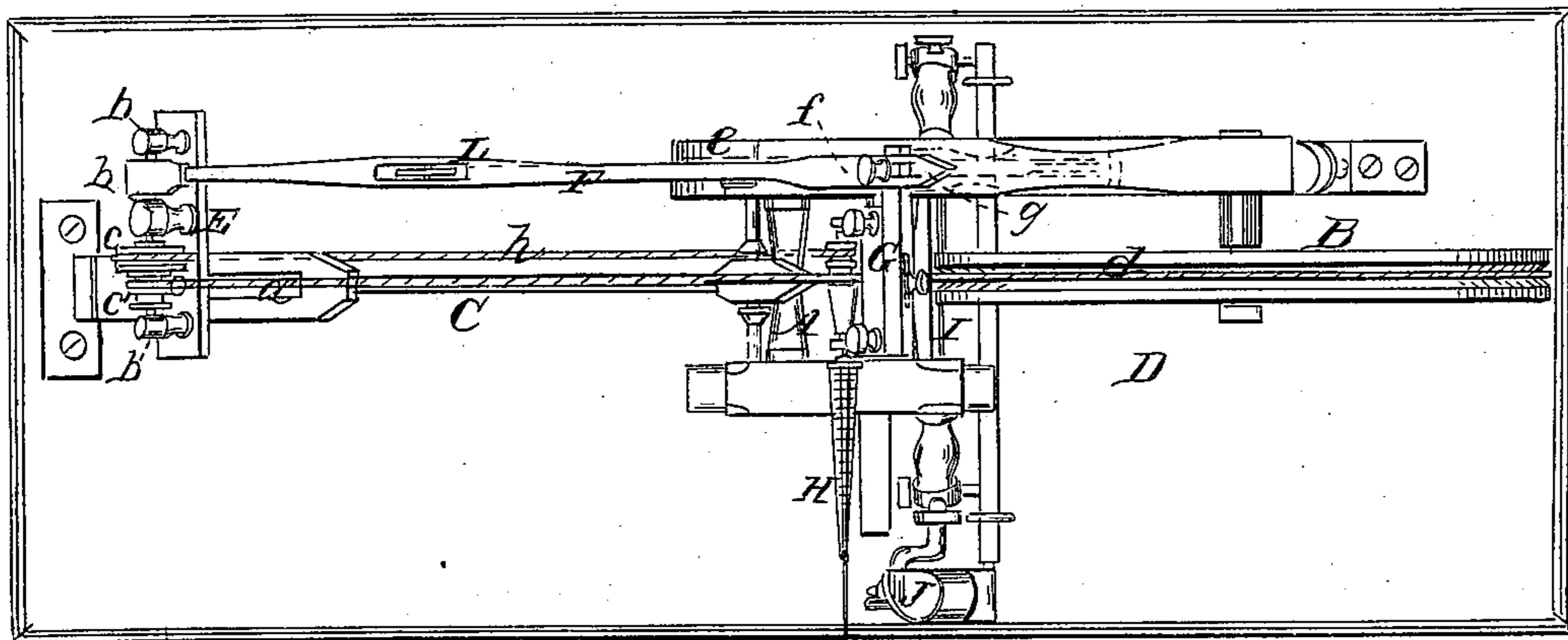
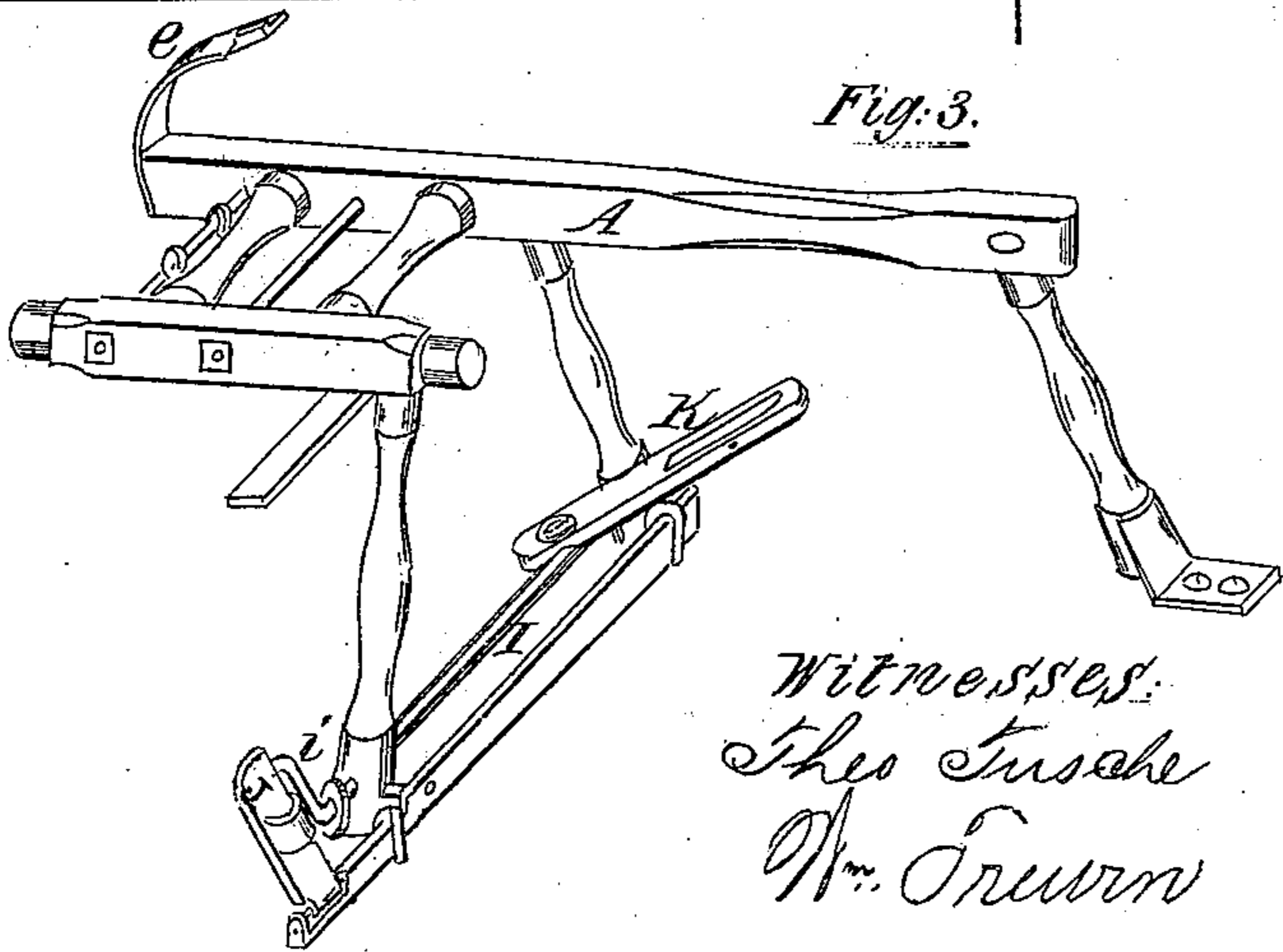


Fig. 3.



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United States Patent Office.

JONAS H. ROWE, OF HUDSON, NEW YORK.

Letters Patent No. 70,622, dated November 5, 1867.

IMPROVEMENT IN SPINNING-WHEEL.

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, JONAS H. ROWE, of Hudson, in the county of Columbia, and State of New York, have invented a new and improved Spinning-Wheel, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim, and desire to have secured to me by Letters Patent.

This invention relates to a new and useful improvement on the simple spinning machine for household use, and it consists in a novel and useful modification thereof, whereby the operator can spin while sitting on a stool or chair by the side of the machine.

The object of the invention is to avoid the walking towards and from the spindle hitherto required, in order to draw out or attenuate the roping while being spun, and to cause the yarn, as spun, to be wound upon the spindle.

To this end my invention consists in having the spindle-head attached to a radius arm arranged in such a manner that it may be moved through the medium of a treadle, and the spindle made to approach and recede from the operator at the will of the same, due provision being made for the tightening of the belts, and all constructed and arranged as hereinafter set forth. In the accompanying sheet of drawings—

Figure 1 is a side view of my invention.

Figure 2 a plan or top view of the same.

Figure 3 a perspective view of a portion of the same.

Similar letters of reference indicate like parts.

A represents a framing or support, in which a vertical band-wheel, B, is fitted and allowed to turn freely. C represents an inclined rod, the upper end of which is attached to the framing or support A, and the lower end attached to a base, D, on which the framing or support A is secured. The lower part of this rod C has an oblong slot or opening, *a*, made in it, through which a set-screw, D', passes, said screw also passing into a bar, E, having posts *b* upon it, to serve as bearings for pulleys *c* *c'* and an arm, F. The pulley *c* is considerably larger in diameter than the pulley *c'*, and the latter has a belt or cord, *d*, passing around it, which belt or cord also passes around the wheel B, (see figs. 1 and 2.) The arm F is of considerable length, and, when inclined backward, nearly reaches the wheel B, and rests upon an elastic curved bar, *e*, attached to the framing or support A, as shown clearly in fig. 1. To the outer end of the arm F the spindle-head G is attached, and secured by a set-screw, *f*, which passes through an oblong slot, *g*, in the arm, to admit of the spindle-head having a certain degree of adjustment. The spindle H is of usual construction, and is rotated by a belt or cord, *h*, from the pulley *c*.

It will be seen, therefore, from the above description, that, by turning the wheel B, motion will be communicated to the spindle H, through the medium of the cords *d* *h*.

In the lower part of the framing or support A there is a horizontal shaft, I, having a crank, *i*, at one end, to which a treadle, J, is connected, and this shaft I has an arm, K, attached to it, in the upper part of which there is secured one end of a connecting-rod, L, the opposite end of said rod being connected to the arm F.

It will be seen, therefore, that the operator, by actuating the treadle J, may move the arm F, and consequently the spindle H, towards and from the wheel B at will, the operator being seated on a stool by the side of the wheel B. The roping, therefore, while being spun, may be drawn out or attenuated by the outward movement of the arm and spindle, and, as spun, wound upon the spindle by the inward movement of the same. The ropings are hung over a bracket, *j*, on the framing or support A, and the whole operation of spinning may be performed by a person on the stool, all walking forwards and backwards being avoided. By this improvement aged and lame persons may spin without difficulty, the wheel B being turned by one hand, and the roping held by the other. The ropes *d* *h* are tightened when necessary, by adjusting the bar E and spindle-head G.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. The arrangement of the vibrating arm F, carrying the adjustable spindle-head G, said arm supported from the adjustable bar E, and resting upon the spring *e*, with the adjustable bar D, and connecting-rod L pivoted in said arm F, as herein described, for the purpose specified.

2. The combination of the bent spring *e* with the vibrating arm F, adjustable rod C, and connecting-rod L, as herein described, for the purpose specified.

JONAS H. ROWE.

Witnesses:

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