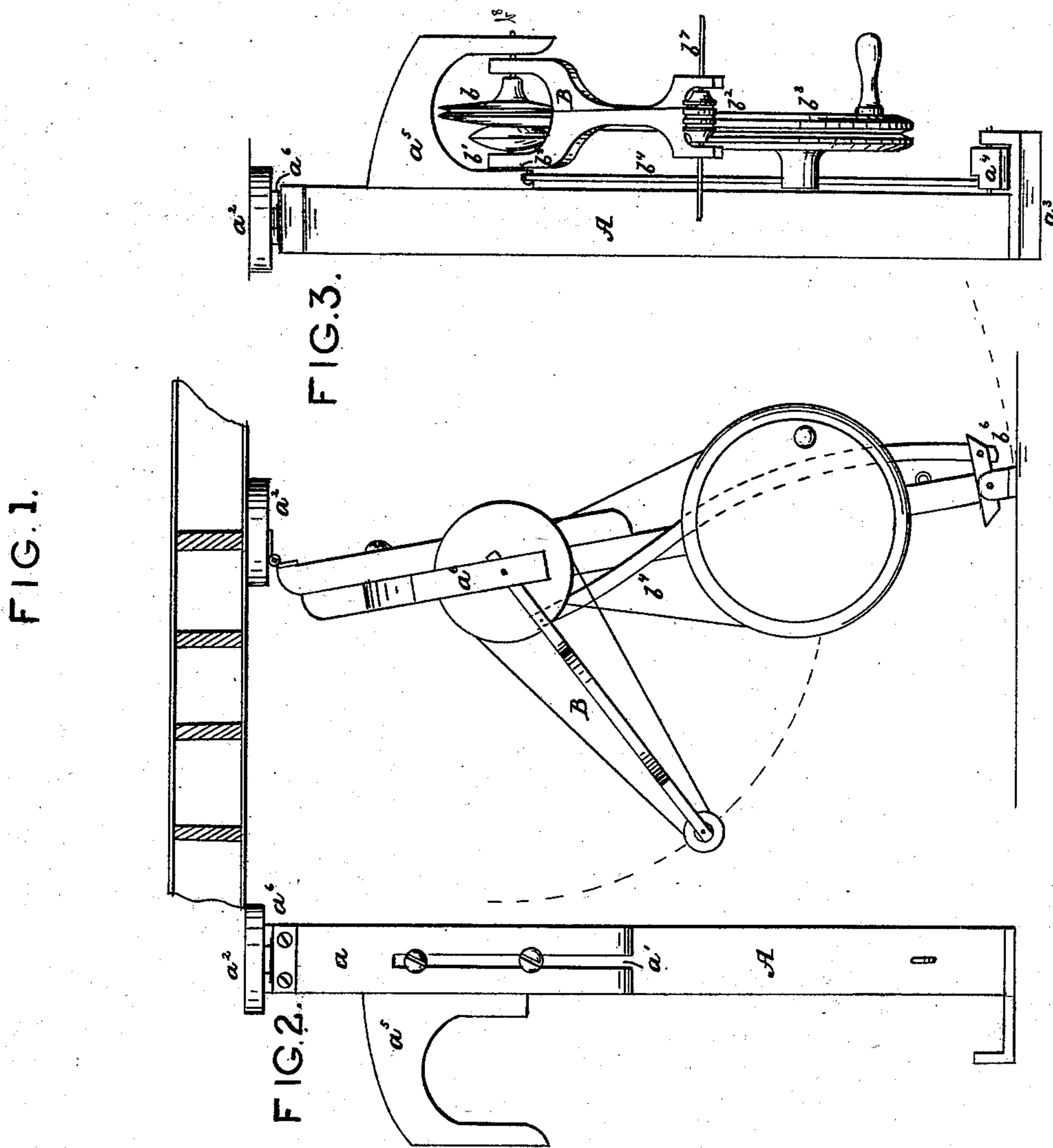


S. KEISLING & T. N. BABB.  
Spinning-Machine.

**No. 224,700.**

**Patented Feb. 17, 1880.**



Witnesses:  
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# UNITED STATES PATENT OFFICE.

SAMUEL KEISLING AND THOMAS N. BABB, OF MONROE, TENNESSEE.

## SPINNING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 224,700, dated February 17, 1880.

Application filed August 26, 1879.

*To all whom it may concern:*

Be it known that we, SAMUEL KEISLING and THOMAS N. BABB, of Monroe, in the county of Overton and State of Tennessee, have invented certain new and useful Improvements in Spinning-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Our invention relates to an improvement in hand-spinning machines.

It consists in a new and novel arrangement for drawing out the thread and spinning and winding it, as will more fully hereinafter be set forth.

In the drawings, Figure 1 is a side elevation, showing the swinging arm in position when the thread is drawn out to be spun. Fig. 2 is a detail view, showing the staff with its extension-bar for adjusting my device to rooms of different heights. Fig. 3 is a front elevation with the swinging arm drawn in position after winding the thread just spun and before drawing out additional thread.

A is a vertical staff or support, to which the working mechanism of our device is attached. It is provided on its rear upper side with a bar,  $a$ , having a vertical slot,  $a'$ , and attached by set-screws through the slot, so that it may be moved vertically in either direction and reset to accommodate the staff to a room of any height.

Upon the upper end of the slotted bar is a hinged disk,  $a^2$ , with a screw loosely passing through its center, to be fastened in the ceiling or other suitable place and act as a swivel for the staff A to turn on, that it may be accommodated to any desired position. The hinge allows the staff to be raised to the ceiling, where it may be secured out of the way when not in use.

At the lower end of the staff A is affixed a foot-piece extending to one side, and having an upward-projecting end so arranged as to receive and pivot a treadle,  $a^4$ , between it and the bar or staff A. The staff A is also provided on its treadle side with an arm,  $a^5$ ,

bowed downward, and having a hole or bearing in its end corresponding to one in the staff A, to receive a pin or axle.

B is a swinging arm having a large and small bifurcated end, and provided each with holes or bearings through the ends of their arms to receive a pin or axle. The large end is pivoted or swung upon a pin through the bearings in the wheel-frame  $a^5$ , and has a large and small pulley joined together on the same pin or axle between its arms, and made to operate independent of it. In the other and loose end is a small pulley,  $b^2$ , held to its place by a long needle or pin passing through it and the bearings of the arm, and acting as a combined axle and thread-spindle  $b^7$ .

Intermediate the arm  $a^5$  and the treadle  $a^4$  is a crank-pulley,  $b^3$ , pivoted to the staff A on its treadle side and made to operate so that a band passing around it and the small pulley  $b'$  will turn the larger pulley  $b$ , and a band passing around it (the pulley  $b$ ) and the small pulley  $b^2$  causes the latter to revolve rapidly.

$b^4$  is a curved pitman connecting the inner end of the treadle  $a^4$ , at  $b^6$ , to the outside of the inner arm of the pivoted end of the bifurcated swinging arm B at  $b^5$ , and made to operate so that pressing the foot upon the outer end of the treadle  $a^4$  will vertically raise the pitman, which, in turn, elevates the swinging arm B to a horizontal position ready for spinning, as is shown in Fig. 1.

What we claim is—

The combination, with the spindle  $b^7$ , provided with a pulley,  $b^2$ , and fixed in the free end of the arm B, and the swinging arm B, hinged on a pin or axle,  $b^8$ , near the upper end of the staff A, of the staff A, pulleys  $b$   $b'$ , journaled on axle  $b^8$ , crank-wheel  $b^3$ , pitman  $b^4$ , with its treadle  $a^4$ , and the necessary cords or belts for driving the pulleys, all arranged to operate substantially as and for the purposes set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

SAMUEL KEISLING.  
THOMAS N. BABB.

Witnesses:

R. H. SMITH,  
R. S. BEETS.