U. WASSMER.

SPINNING-LATHES.

No. 177,044. Patented May 2, 1876.

Fig. 1

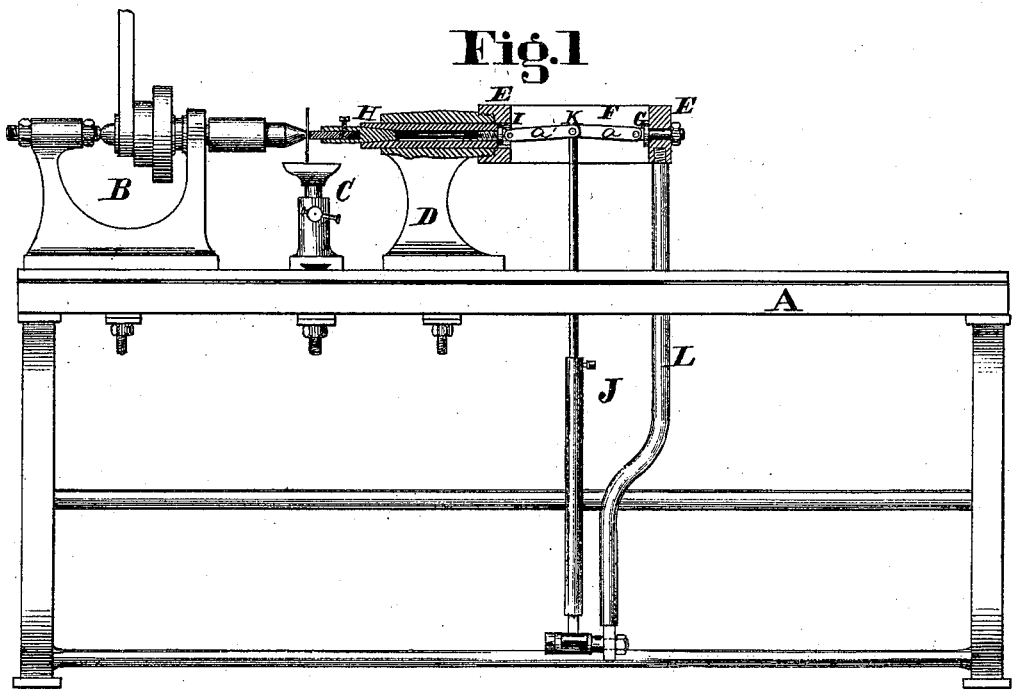


Fig. 2

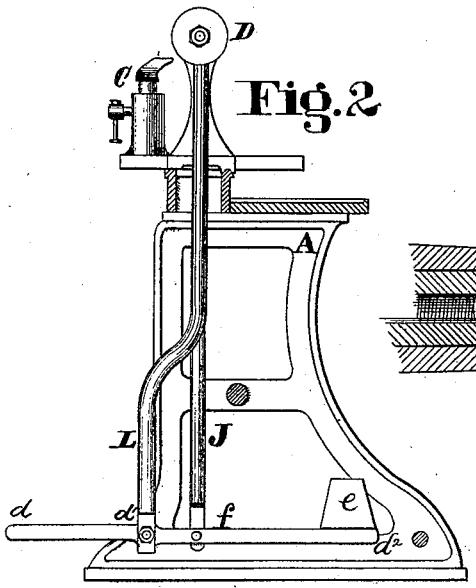
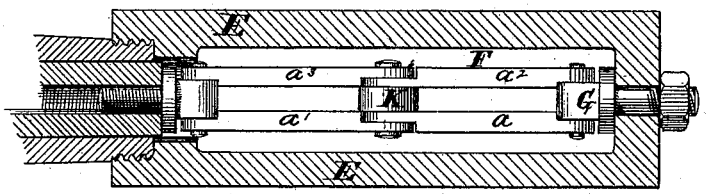


Fig. 3



Attest

Chas. Gessert

Emmet Beard

Ulrich Wassmer

Inventor

by

Wm. Millard

Atty.

UNITED STATES PATENT OFFICE.

ULRICH WASSMER, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND EDWARD KIRBY, OF SAME PLACE.

IMPROVEMENT IN SPINNING-LATHES.

Specification forming part of Letters Patent No. **177,044**, dated May 2, 1876; application filed January 28, 1876.

To all whom it may concern:

Be it known that I, ULRICH WASSMER, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Lathes, of which the following is a specification:

My invention relates to lathes or other machines which require a ready means of adjustment between centers; and consists, principally, in a simple device whereby a certain pressure may be continually brought to bear upon the work to be spun, so as to hold it tight between the centers of the lathe or other machine, and still allow it to revolve freely while it is being spun into the required shape upon a mandrel of corresponding form; also, in a ready means of attaching and detaching the work to or from the centers between which it is spun.

In the accompanying drawings, Figure 1 is a longitudinal elevation of a lathe, with my invention shown as attached to the tail-rest, and represented in section. Fig. 2 is a transverse section of the same, showing the leverage and weight by which means pressure is brought to bear upon the work while between centers; and Fig. 3 is a partial sectional plan of the tail-rest, showing the slotted sleeve and knuckle-jointed lever attached thereto.

In the annexed drawing, A represents the shears of a lathe, upon which are mounted the usual head-rest B, tool-rest C, and tail-rest D. Firmly attached to the tail-rest D is a slotted sleeve, E, in the slot F of which works a knuckle-jointed lever, a a^1 a^2 a^3, fulcrumed to the sleeve E at G, and jointed to the sliding center H at I by means of levers a a^2 and a a^3, which meet at and join with rod j at K. Attached to and descending from the slotted sleeve E is a treadle-support, L, which is constructed to move with the tail-rest D and sleeve E. The treadle d d^1 d^2 is fulcrumed to the support L at d^1, and attached to its end d^2 is a suitable weight, e. The rod j being attached to the aforesaid treadle at f, and to the knuckle-jointed lever at K, causes the sliding spindle and its attached center H to move in or out as the weight e is allowed to descend, or as the operator causes it to ascend by placing his foot on the treadle at d.

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

The combination of the sliding center H, slotted sleeve E, knuckle-jointed lever a a^1 a^2 a^3, rod j, treadle d d^1 d^2, and weight e, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 15th day of December, 1875.

ULRICH WASSMER.

Witnesses:

CHAS. F. GESSERT,

J. E. STEVENSON.