W. D. Maurice.

Turning Lathe.

No. 54,187. Patented Apr. 24, 1866.

Fig. 3.

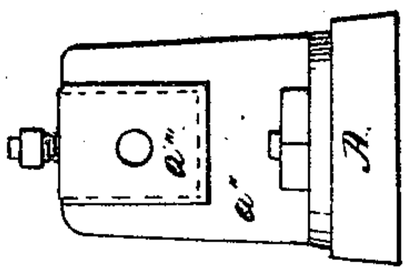


Fig. 4.

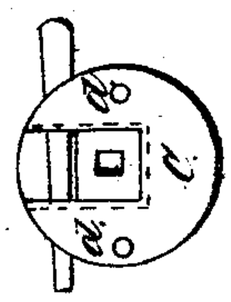


Fig. 1.

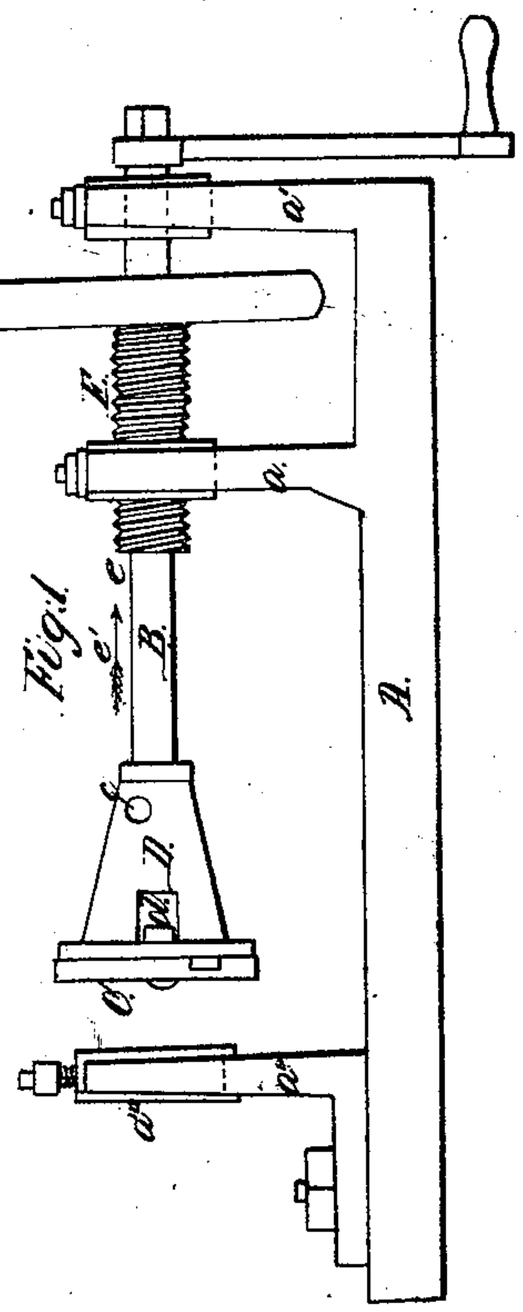
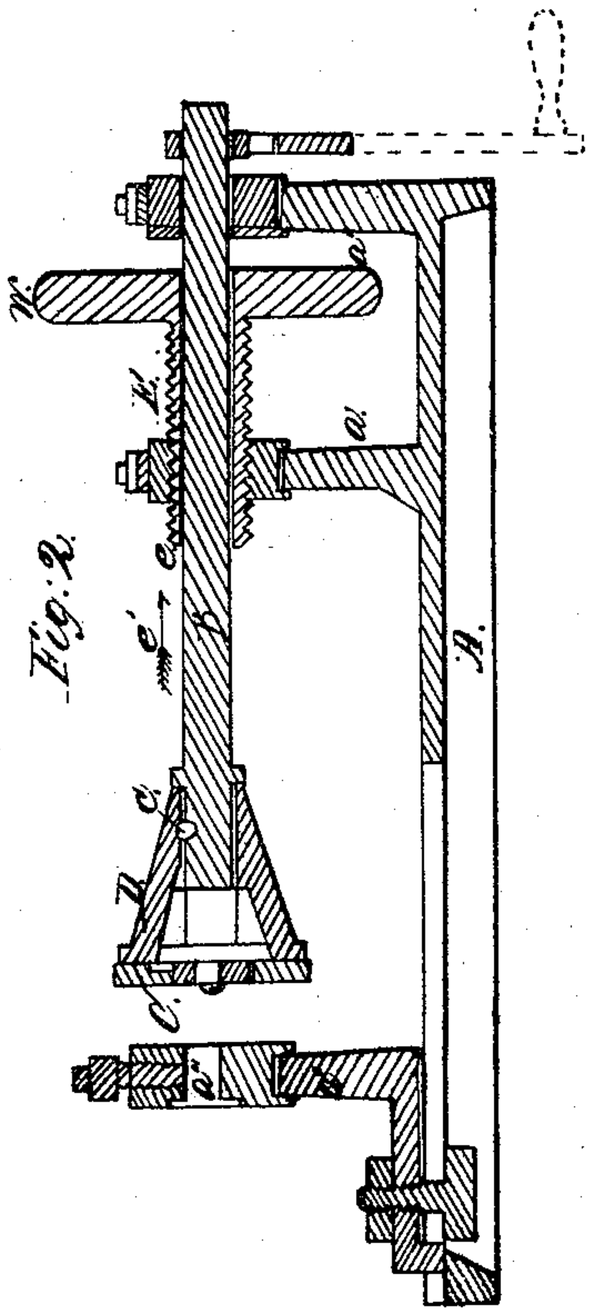


Fig. 2.



Witnesses;
Theodore Lang
Wm. Johnston.

Inventor;
W. D. Maurice
by his attorney
S. S. Fahnestock.

UNITED STATES PATENT OFFICE.

D. W. MAURICE, OF SPRINGFIELD, OHIO.

IMPROVEMENT IN LATHES.

Specification forming part of Letters Patent No. **54,187**, dated April 24, 1866.

To all whom it may concern:

Be it known that I, W. D. MAURICE, of Springfield, county of Clarke, and State of Ohio, have invented a new and Improved Lathe for Cutting Iron Screws, and for other purposes hereinafter to be mentioned; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in arranging a chuck and socket on a shaft, in combination with a screw-sleeve, surrounding the same, that the operations of cutting screws or nuts, tenoning wheel-spokes, boring, and such kind of work is greatly facilitated, &c.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents a side elevation of my lathe; Fig. 2, a vertical longitudinal section; Fig. 3, an end view of the adjustable standard; Fig. 4, an end view of the chuck on its socket.

A represents my table or frame. *a* and *a'*, fixed standards, in which shaft B is secured in any well-known suitable manner, and working in boxes. C is the chuck, secured to socket D by screw-bolts *d*. The socket is secured to shaft by a tapering pin, *c*, or in any other suitable manner.

a'' is the adjustable standard in which it is intended to secure the piece or material to be operated upon. The part *a'''* may be changed when desirable, according to the nature of the work.

E is a screw-sleeve, in or through which the shaft B works, and constituting one of its bearings or boxes. The end of this screw-sleeve passes through the center standard, *a*, or a box which is held by the same. On the other end there is a hand-wheel, W, by which this screw-sleeve is worked toward or from the center of the lathe, its extreme central end, *e*, regulating or limiting the withdrawal of the shaft, or its chuck and socket or tool held by the same, in the direction of arrow *e'*.

The adjusting of bits of various kinds in the chuck or securing the work in the standard *a''* requires no particular description, such things being well understood by those skilled in the art.

Motion may be given to the shaft by a crank, or by means of a belt and pulley or any other gearing.

The bit or other tool may be fed up by means of screw-sleeve, which, when retracted, permits the same to be withdrawn.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination of chuck C, socket D, and shaft B with the screw-sleeve E, arranged substantially in the manner as described, and for the purpose set forth.

D. W. MAURICE.

Witnesses:
WM. F. COCHRANE,
REUBEN MILLER.