

W. D. Maurice.

Turning Lathe.

N^o 54,184.

Patented Sept. 24, 1866.

Fig. 3.

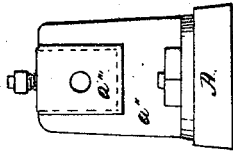
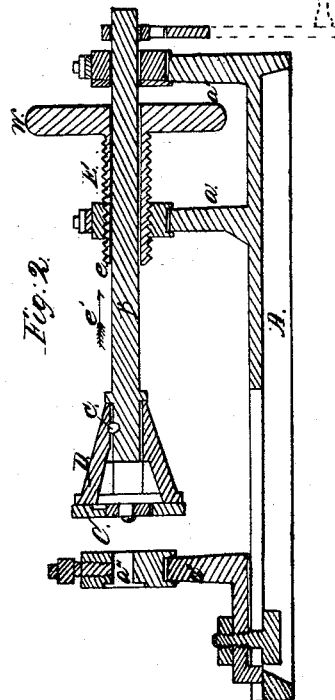
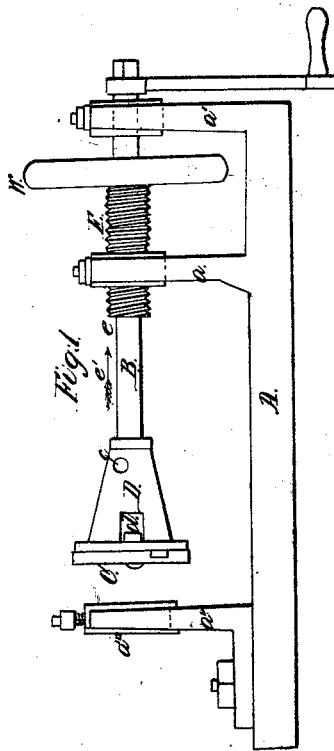
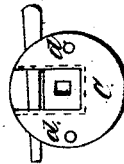


Fig. 4.



Witnesses;
Theodore Lang
Am. Johnson.

Inventor;
W. D. Maurice
by his attorney
S. S. Johnson & Co.

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, *e*, 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.