

M. Gore,

2. Sheets. Sheet. 1.

Lathe.

No. 91,930.

Patented June 29. 1869.

Fig. 1

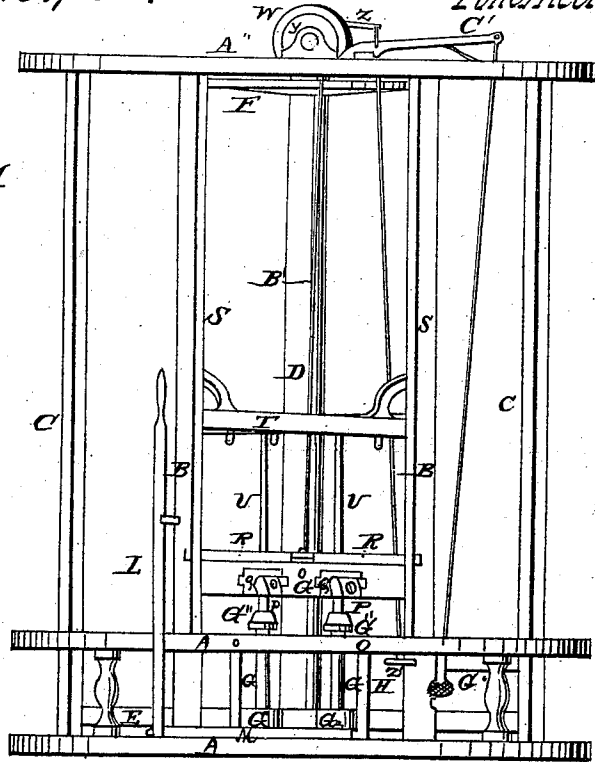
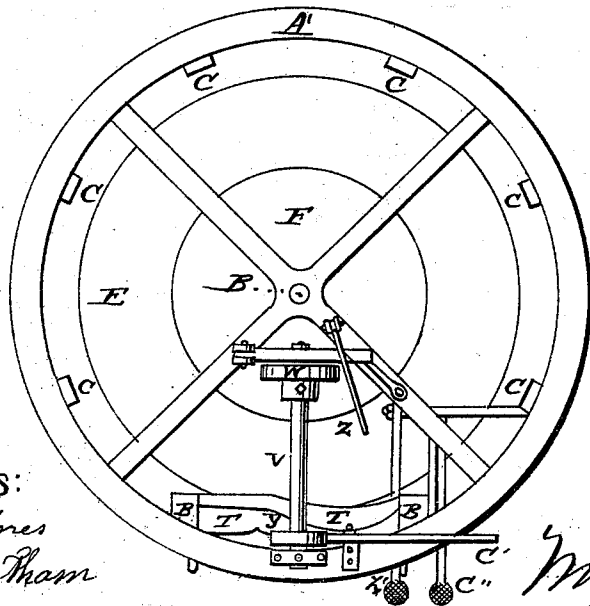


Fig. 2.



Witnesses:
 Curtis, A. Gaines
 Luena, E. Scamham

Inventor
 Myron Gore

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Fig. 4.

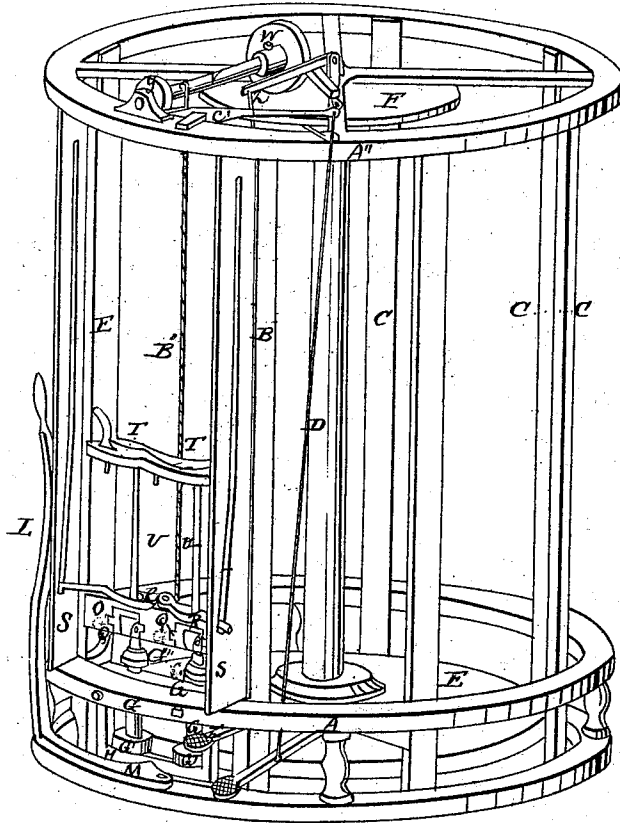
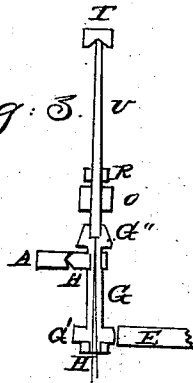


Fig. 5.



Witnesses:

Curtis A. Gaines
Serena E. Latham

Inventor

Myron Gore

United States Patent Office.

MYRON GORE, OF SHELBY, MICHIGAN.

Letters Patent No. 91,930, dated June 29, 1869.

IMPROVEMENT IN LATHES.

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, MYRON GORE, of Shelby, in the county of Oceana, in the State of Michigan, have invented a new and improved Upright Combination-Lathe; 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 constructing an upright lathe, by means of which broom-handles, hoe-handles, chair-legs, or any other cylindrical or tapering piece of wood, can be turned to its required shape, in a short time, and with little labor.

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

Figure 1, in the drawings, is a vertical plan.

Figure 2 is a horizontal plan.

Figure 3 is a section through *a b*, fig. 1.

Figure 4 is a perspective view of the machine.

I construct a frame of three cast-iron rings, A' A' A'', supported and bound together by the upright timbers B B and C C C.

The rings A' and A'' have spokes radiating from their centres, thus forming journals for the upright shaft D, which can be driven either from above or below.

The shaft D has keyed to it, at the lower part, a large iron friction-wheel, E, and another friction-wheel, F, at its upper end.

Two upright mandrels, G G, set in the frame H, work together and form a set, there being room for three more sets around the same frame, and requiring only one central shaft.

The frame H is hinged at its upper end, so as to allow the pulleys G' G', on the mandrels G G, to move to and from the wheel E, this motion being given by the combination of levers L and M.

The cutter-bar O slides between the two upright posts B B.

The cutters P P are fastened to movable cutter-blocks Q Q, which can be replaced by others of a different size, when desired.

On the top of the cutter-bar O is a set of cutter-

bars, R R, the arms of which project through a slit in the guide-boards S S. These guide-boards can be removed and replaced by others, with slits of a different shape, to suit the work required.

Two movable centres, T T, rest on the top of the work to be turned, and represented in the drawings by the letters U U. These centres T T also slide between the upright posts B B.

On the top of the machine is a shaft, V, having friction-pulleys W and Y.

By means of the lever Z, connected with the treadle Z', the pulley W is brought down upon the side of the wheel F, which causes the shaft V to revolve and wind up a rope, B.

This rope being fastened to the cutter-bar O, lifts the cutter-bar out and clear of the work U U, carrying along, in its upward motion, the movable centres T T.

When this is effected, the cutter-bar O, and the movable centres T T, are retained in this position by means of the brake formed of the pulley Y and the lever C', which is operated by means of the treadle C''.

After having placed two rough sticks into the chucks G'' G'', the cutter-bar O, and the movable centres T T, are let down by releasing the brake C'.

The chucks G'' G'' have the opening, into which the stick or work U U is inserted, contracted at the top, so as to give a sharp edge or biting projection, which is not apt to let go the work.

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

1. The combination of the levers L M and wheel E, with the pulleys G' G' and mandrels G G, all the parts being constructed and arranged in the manner described and for the purpose specified.

2. The arrangement of the cord B', shaft V, pulleys W Y, lever Z, and treadle Z', lever C', and treadle C'', and wheel F, with the cutter-bar O, in the manner described, when all the parts are constructed as and for the purpose specified.

MYRON GORE.

Witnesses:

CURTIS A. GAINES,
SERENA E. LATHAM