J. Shickel,

Mill Gearing.

No. 68,799. Patented Sep. 10, 1867.

Fig: 2.

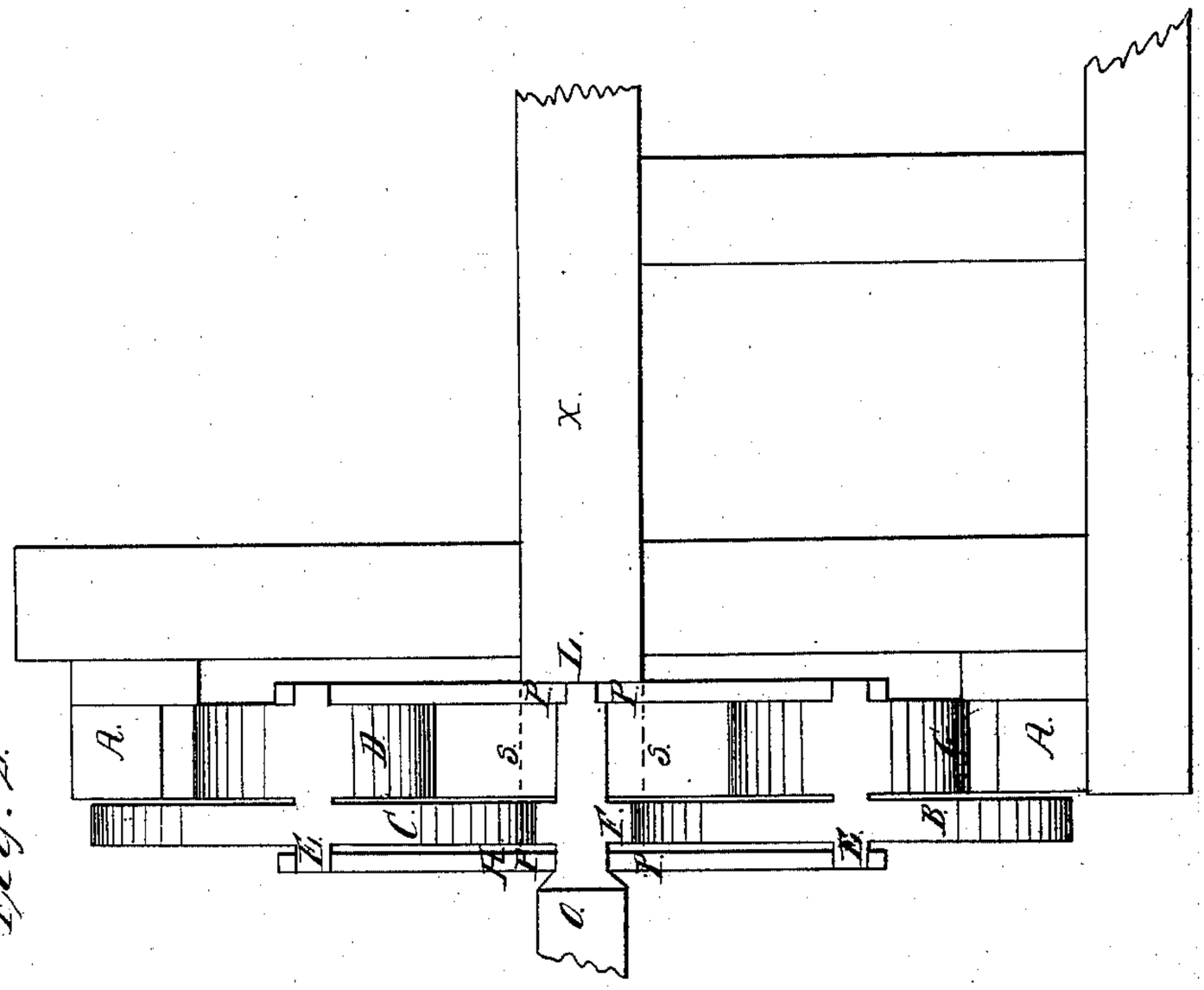
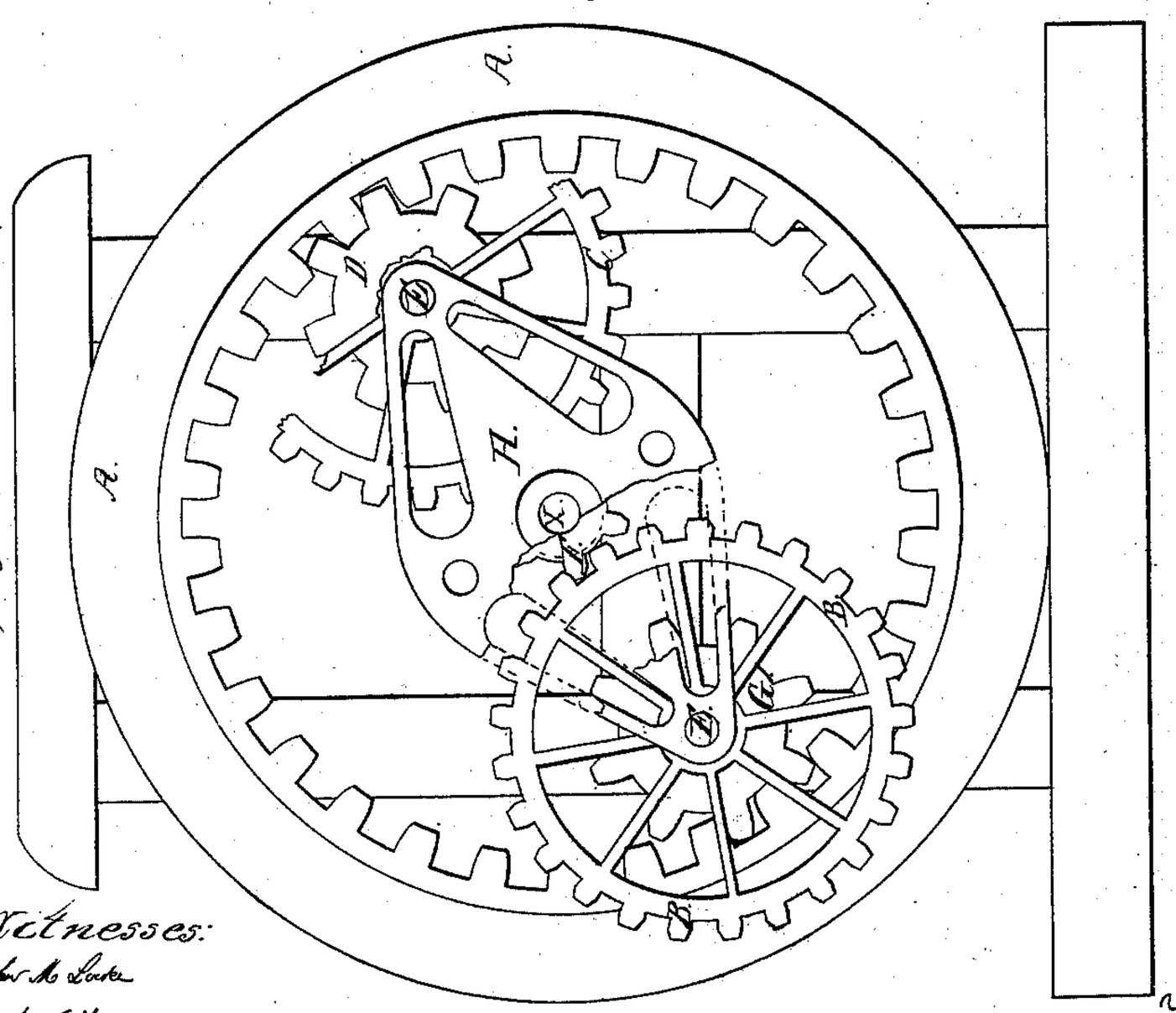


Fig: 1.



Witnesses:
John M Locke
Charles G Hall

Inventor:
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AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

United States Patent Office.

JOSEPH SHICKEL, OF HARRISONBURG, VIRGINIA.

Letters Patent No. 68,799, *dated September* 10, 1867.

IMPROVEMENT IN MILL-GEARING.

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, JOSEPH SHICKEL, of Harrisonburg, in the county of Rockingham, in the State of Virginia, have invented a new and useful Improvement in Mill-Gearing; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, in which—

Figure 1 is a front view.

Figure 2 is a perpendicular section.

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

I construct a master-wheel, fig. 1, A A, and set it firmly in a frame, so that it is stationary. I construct a pinion, D, which moves in the cogs of the master-wheel. Upon the inside axle of this pinion I attach a spur-wheel, C, as is seen in figs. 1 and 2. I construct a similar pinion, G, which also moves in the cogs of the master, and in a similar manner as above attach a spur-wheel. I construct arms H, which are attached to the respective axles of the pinions at E E. I construct a main propelling shaft in the usual way, which I attach to the arms H H, which control the pinions and spur-wheels, at P P P P, in fig. 2, the dotted lines S S in fig. 2 showing how and where the main propelling shaft is attached to the inside arm. I construct an attaching head-shaft, O, fig. 2, which has a pinion on it, as seen in F in fig. 1. This attaching head-shaft works in the main propelling shaft at L in fig. 2, and through the arms H H, to the head of which, at O, fig. 2, the trundle-head is attached, either by spur or band. Thus, power being applied to the main propelling shaft X in fig. 2, the pinions move around the inner circle of the stationary master-wheel A A, and drive the spur-wheels upon the pinion of the attaching head-shaft O, fig. 2, which accelerates greatly the speed of the trundle-head over the gearing now in use.

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

The combination of the stationary master-wheel E, the pinions D D D D and F, the spur-wheels B B C C, the arms H H, and the whole substantially as above described, for the purpose of increasing the speed of the trundle-head in mills, and the velocity of burrs.

JOSEPH SHICKEL.

Witnesses:

I. N. LIGGETT,

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