

C. Corbit.
Mill-Step.

Nº 75865

Patented Mar. 24, 1868.

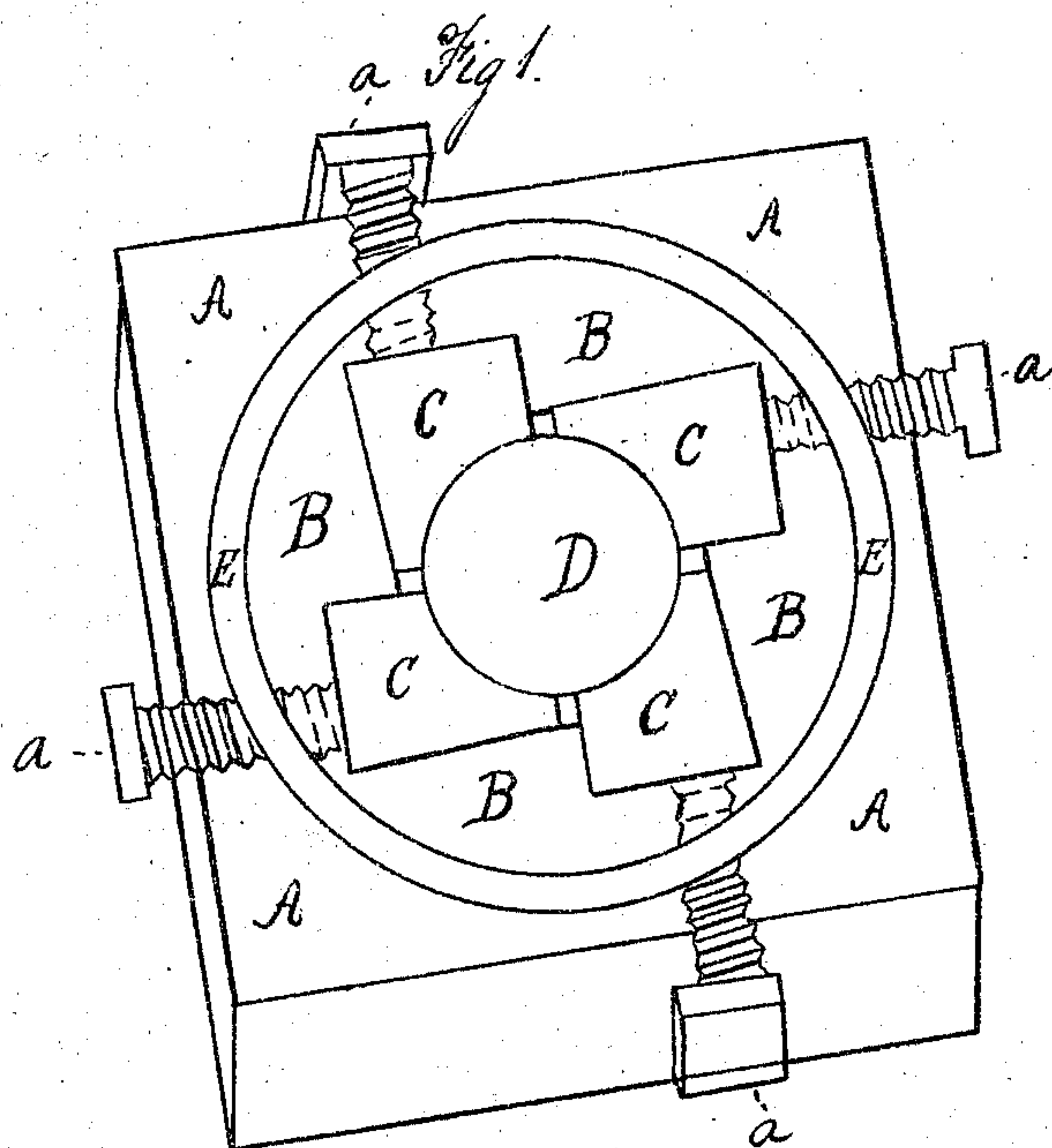
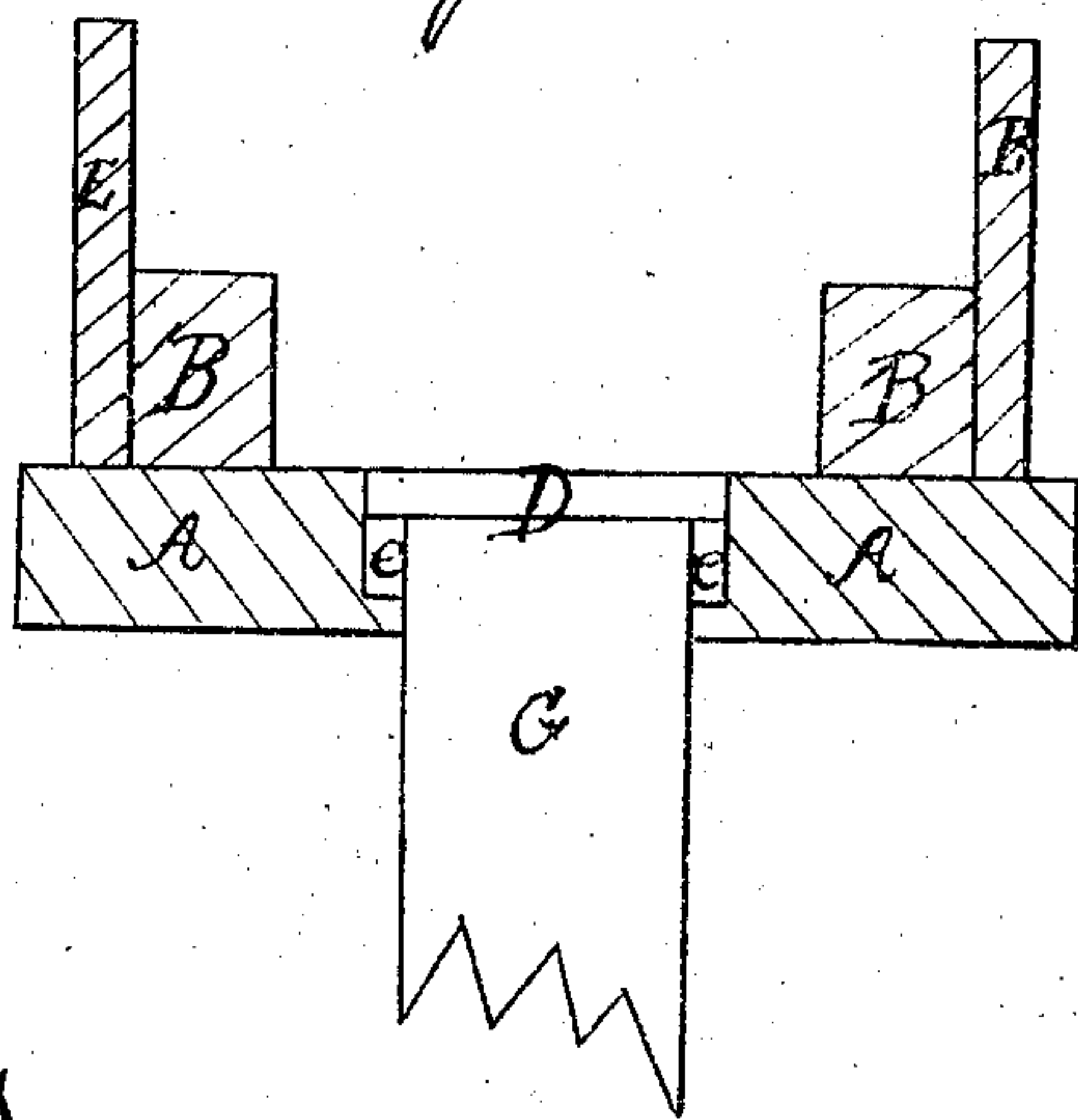


Fig. 2.



Witnesses.
Chas. Sharpless.
William Reed

Inventor
Christopher Corbit

United States Patent Office.

CHRISTOPHER CORBIT, OF CHRISTIANA, PENNSYLVANIA.

Letters Patent No. 75,865, dated March 24, 1868.

IMPROVED MILL-STEP.

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, CHRISTOPHER CORBIT, of Christiana, in the county of Lancaster, and State of Pennsylvania, have invented an Improved Mill-Step; 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 placing in a box, around the toe of a spindle, a series of wedge-shaped movable followers, kept to their places by means of screws, the direction of which is set at an angle with a line running to the centre of the spindle, thus avoiding the strain on the thread of said screws consequent upon the usual mode of setting them.

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

I place on a bed-plate, A A A A, of the proper size, and composed of cast iron, a box, B B B B, cast with it, and in this box I place four followers, C C C C, fig. 1. These followers are cut out on the side next the spindle, so as to fit it, while their opposite side is formed like a wedge, this wedge-shaped side of the followers being placed against the sides of the box B B, &c., and pushed forward by the screws *a a a a*, necessarily carries their inside circle (impinging against the toe of the spindle) directly towards the centre, thus transferring the strain (which, in other steps of the kind, is on the thread of the screw) to the side of the box B B, &c. Through the bed-plate A A, in its centre, is left a round opening for the passage of the movable piece G, and on the top of this piece I place a steel plate, D, on which the toe of the spindle rests. The opening in the bed-plate A, where the movable piece G passes through, is recessed, as seen at *e e*, fig. 2, for the introduction of packing to prevent the escape of oil.

From this description of my invention, it will be seen that when the toe of the spindle wears away, or the followers become less by use, they can be brought tight against the spindle, and kept there with very little strain on the thread of the screws.

I am aware that movable followers, kept in their places by means of screws, the direction of said screws being towards the centre of the spindle, are not new; I therefore wish it to be understood that I make no claim to this arrangement.

I claim placing around the toe of a spindle a series of wedge-shaped followers, C C C C, constructed with boxes B B, screws *a a a a*, movable piece G, steel plate D, and operating as described, in combination with the recess *e e*, in the plate A A, all arranged for the purpose herein specified.

CHRISTOPHER CORBIT.

Witnesses:

CHAS. SHARPLESS,
WILLIAM REED.