

C. E. Wilson,

Truing Grind-Stones.

N^o 92,242.

Patented July 6. 1869.

Fig. 1.

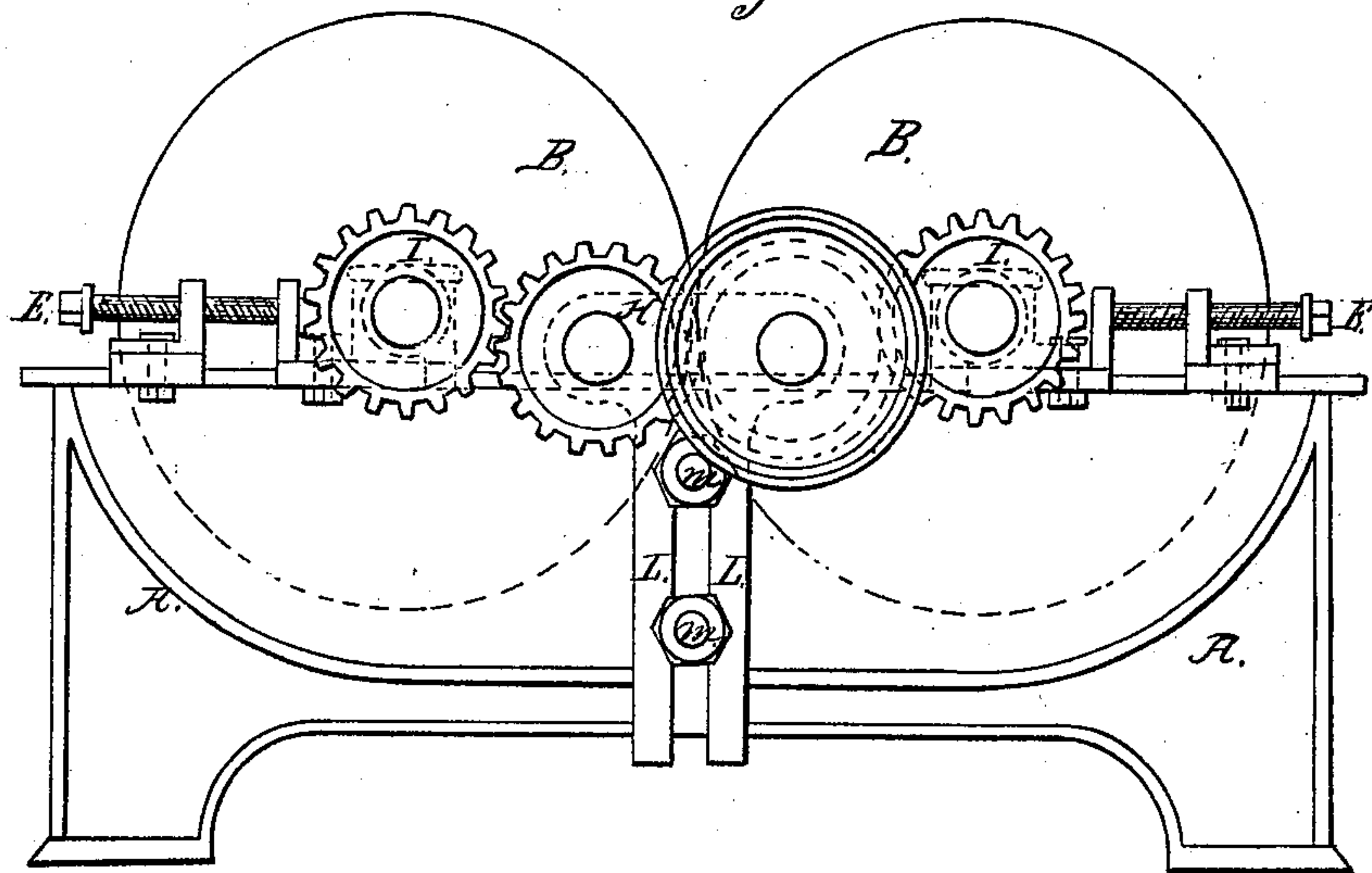
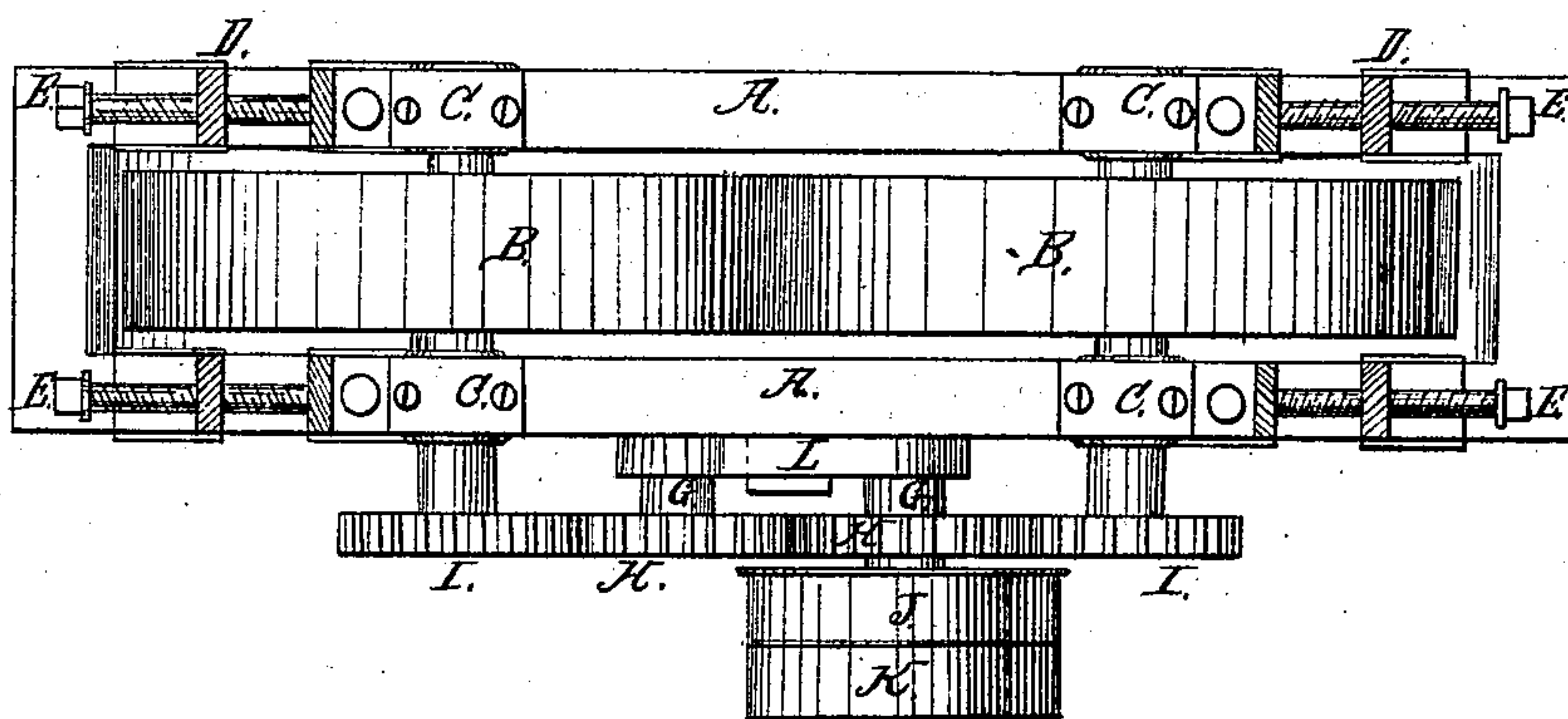


Fig. 2.



Witnesses,

A. A. Yeaton,
A. H. Southwick.

Inventor,

Charles E. Wilson.

per
Alexander Mason.
Att'y.

United States Patent Office.

CHARLES E. WILSON, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 92,242, dated July 6, 1869; antedated June 19, 1869.

IMPROVEMENT IN TRUING GRINDSTONES.

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, CHARLES E. WILSON, of Boston, in the county of Suffolk, and in the State of Massachusetts, assignor to himself and OSCAR T. HIGGINS, of same place, have invented certain new and useful Improvements in Truing Grindstones; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification—

A represents a grindstone-frame, which is made in the usual way, but large enough to hold two stones.

B B represent the grindstones.

These stones are provided with suitable shafts, which have their bearings in the movable boxes C C.

These boxes C C rest upon the upper edges of the frame A, and slide upon it, being moved by means of the screws E E.

These screws pass through the stationary block D D, which are secured upon the upper edges of the frame.

Upon the outer ends of the stone-shafts, on one side of the frame, are secured the gear-wheels I I.

Between the wheels I are situated two gear-wheels H H, which gear into each other, and then into the wheels I.

These wheels H are placed upon short shafts G, which said shafts are secured firmly to a sliding T-shaped frame L.

The leg or lower end of this frame L is slotted, and through this slot pass the two set-screws *m m*. This frame is adjusted vertically, and secured in place by means of the set-screws *m m*.

Upon the outer end of one of the shafts, G, is placed a loose pulley, K, and next to it a pulley, J, which is made fast to the shaft.

The object of this arrangement of gear-wheels and sliding bearings C C, is to so adjust the two grindstones in the frame, that their peripheries will touch each other when desirable for mutually levelling their faces.

When grindstones are much used in machine-shops for sharpening up tools, their faces will in a short time become uneven, and in order to level their faces, they are made to run with these faces together, as has been stated. As the stones wear and become smaller, the frame L is dropped, and the bearings C C are moved inward, toward each other, just sufficiently always to keep the peripheries of the stones together.

The gear-wheels are so arranged that they will always gear together properly when the stones are touching.

The stones are driven by a band which passes over the pulley J.

When it is desirable to stop the motion of the stones, the band is shifted to the loose pulley K.

The gear-wheels are made of such sizes, of course, as will run the grindstones at unequal speed.

Having thus fully described my invention,

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

The arrangement of the grindstones B B, in such a manner upon the frame A, that their peripheries will touch, so that when they are revolved at unequal speed, they will mutually level each other's faces, the same being adjusted substantially as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 14th day of October, 1867.

CHARLES E. WILSON.

Witnesses:

C. M. ALEXANDER,
J. M. MASON.