

J. W. COLE.

Machines for Shaping or Dressing Wheels, &c.

No. 139,775.

Patented June 10, 1873.

Fig: 1

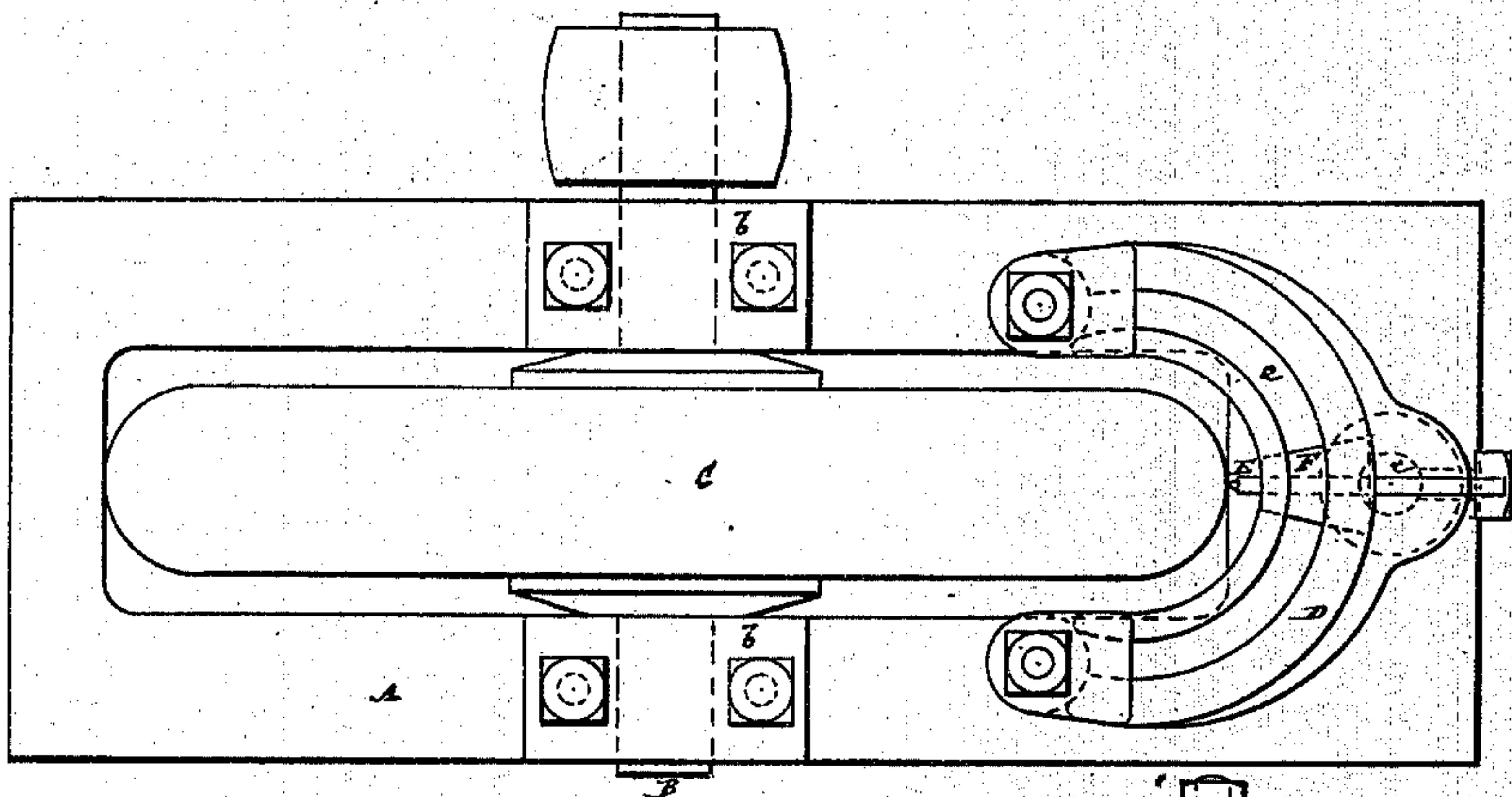


Fig: 2

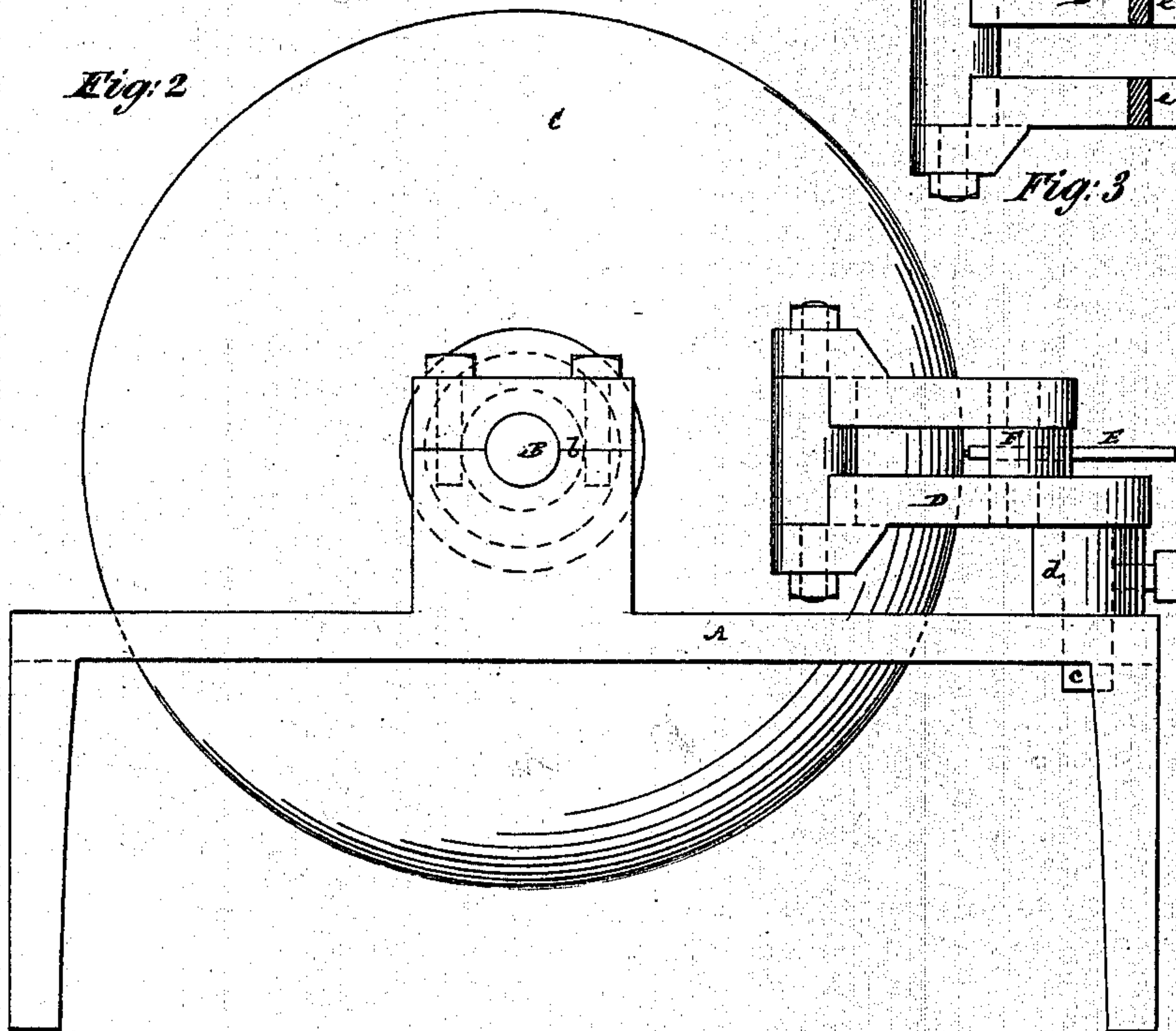
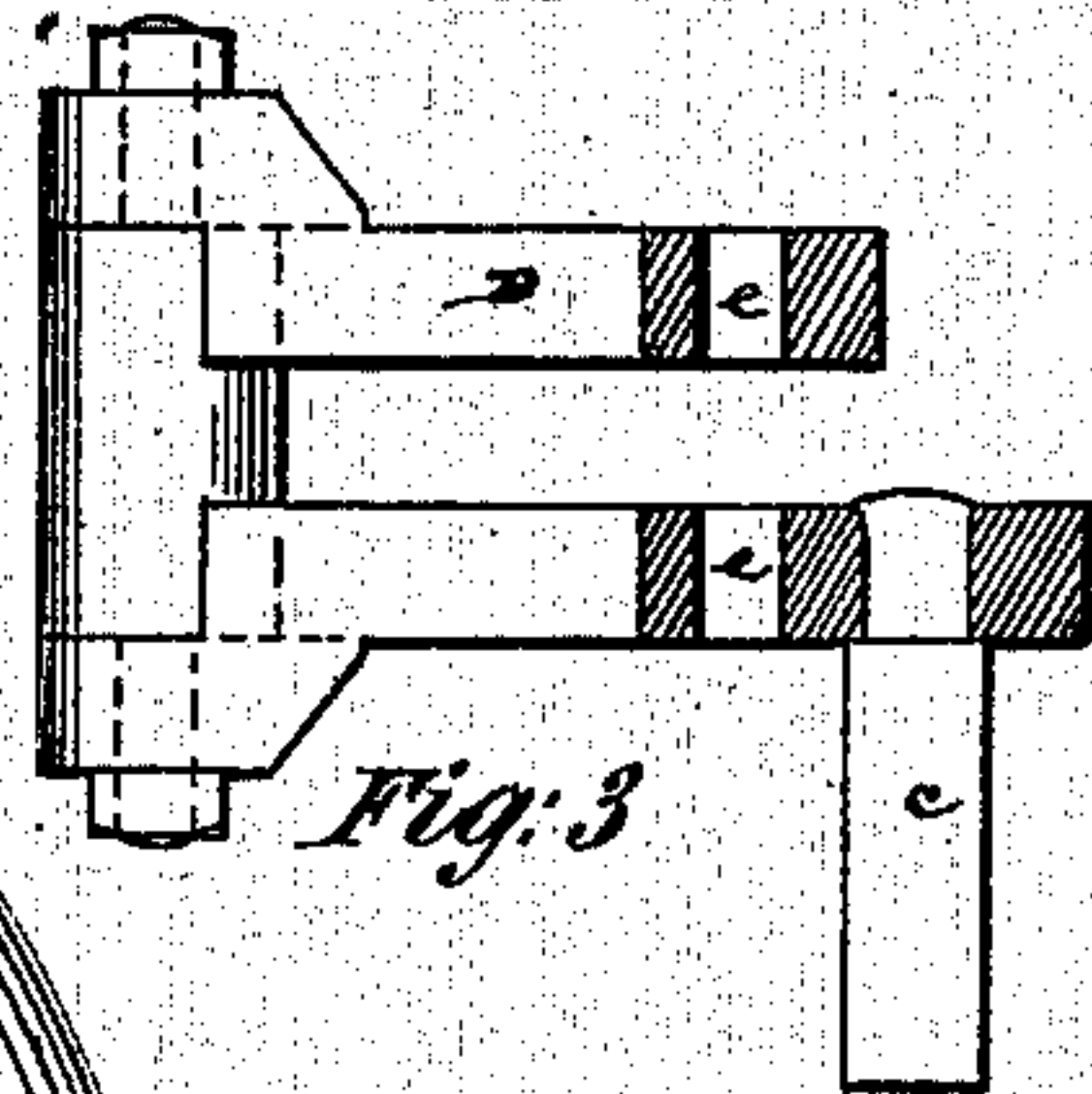


Fig: 3



Witnesses:
Michael Ryan
Jos. H. H. H.

J. W. Cole

UNITED STATES PATENT OFFICE.

J. WENDELL COLE, OF BROOKLYN, NEW YORK, ASSIGNOR TO "THE TANITE COMPANY," OF STROUDSBURG, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR SHAPING OR DRESSING WHEELS, &c.

Specification forming part of Letters Patent No. 139,775, dated June 10, 1873; application filed December 7, 1872.

To all whom it may concern:

Be it known that I, J. WENDELL COLE, of the city of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Machines for Shaping or Dressing Wheels and other circular or partly circular bodies of transverse curvature on their peripheries, of which the following is a specification:

This invention is applicable, among other purposes or uses, to the turning or dressing of emery or other grinding wheels of transverse curvature on their peripheries, suitable for grinding or dressing the bearing-surfaces of journal-boxes. The invention consists in a combination, with a revolving shaft or carrier of the wheel or body to be dressed, of a diamond or other cutter made capable of motion in a transverse relation to the rim or periphery of the wheel, when said cutter is directed by a curvilinear guide or pattern corresponding with the shape of the body to be turned, substantially as hereinafter described.

In the accompanying drawing, which forms part of this specification, Figure 1 represents a plan of a machine constructed in accordance with my invention; Fig. 2, a side-view of the same; and Fig. 3, a partially sectional elevation of the guide by which the tool is directed.

Similar letters of reference indicate corresponding parts.

A is a main frame, having bearings *b b* for support of the shaft or carrier B by which the wheel C or body to be turned is rotated. D is the curved guide or pattern, formed of a

slotted tool-rest carried by a pivot or swivel-pin, *c*, within a socket, *d*, attached to the top of the frame at or near the end thereof, and in line of the plane of the wheels' rotation or thereabout, so that the curved guide or pattern D may be set up or down and turned, as required in the socket *d*, to bring the diamond or other cutter E in proper relation to the periphery of the wheel or body to be turned but after this adjustment is made the travel of the cutter E transversely to the rim of said wheel or body is directed by the slot or slots *e* in the guide or pattern D, by means of a block, F, free to travel within said slots and through which the body or shank of the cutter E is adjustable by screw-thread to regulate contact of the cutter with the wheel. The shape of the slots *e* corresponds with the cross-outline of the figure to be turned, and the traveling of the cutter, as controlled by the movement of the sliding block F, gives the necessary curved contour to the rim of the revolving wheel or body.

What is here claimed, and desired to be secured by Letters Patent, is—

In combination with the emery or other grinding wheel C, the curved guide or pattern D adjustable up or down and about the axis of the swivel-pin *c*, the sliding-block F, and the diamond or other cutter, E, adjustable through said block, substantially as specified.

J. W. COLE.

Witnesses:

MICHAEL RYAN,
FRED. HAYNES.