E. THOMAS.

Rests for Trueing off Emery-Wheels, &c.

No. 161,717. Patented April 6, 1875.

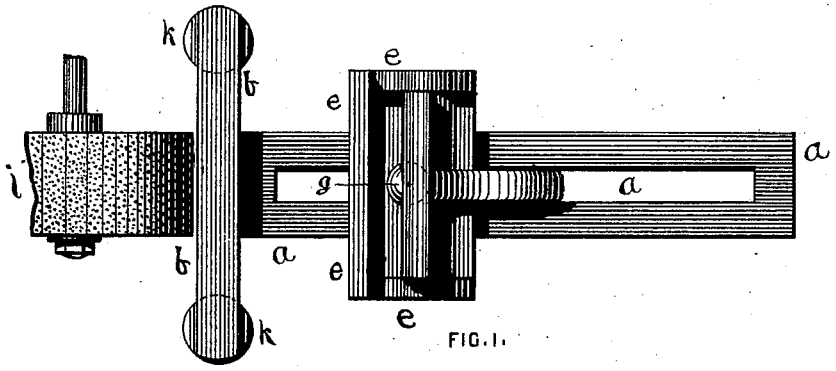

FIG. 1.

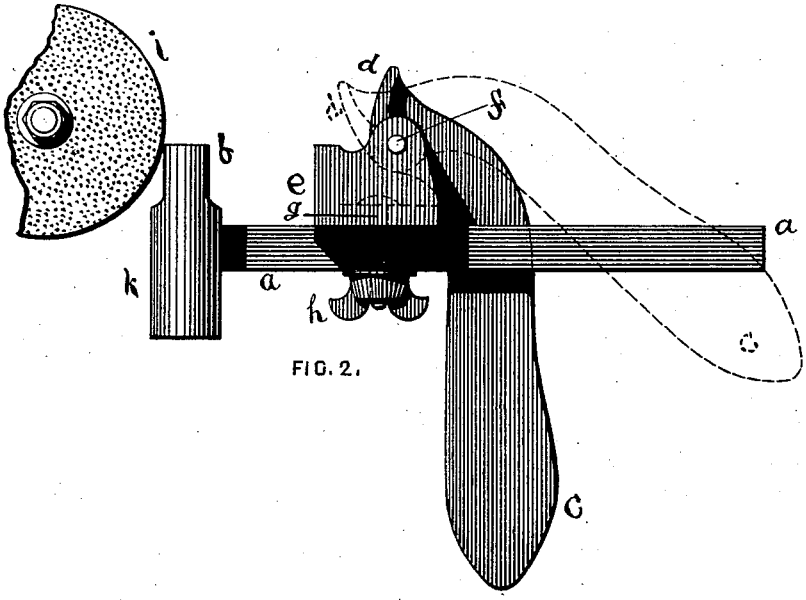

FIG. 2.

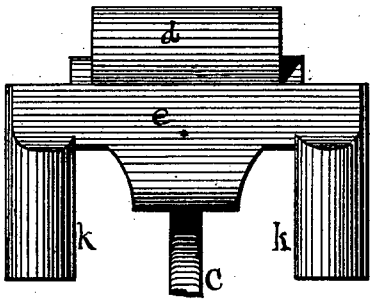

FIG. 3.

WITNESSES.

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ELEAZER THOMAS, OF PAWTUCKET, RHODE ISLAND.

IMPROVEMENT IN RESTS FOR TRUING-OFF EMERY-WHEELS.

Specification forming part of Letters Patent No. **161,717**, dated April 6, 1875; application filed March 4, 1875.

To all whom it may concern:

Be it known that I, ELEAZER THOMAS, of Pawtucket, in the county of Providence and State of Rhode Island, have invented a certain Improved Device, of which the following is a specification:

Said invention relates to a means or device for facilitating the operation of "truing-off" solid emery-wheels, stones, grindstones, and other circular or spherical bodies or substances, and which is also designed to be used in grinding and evening-up castings, and for other purposes.

The accompanying drawing is hereby made a part of this specification, similar letters of reference indicating corresponding parts.

Figure 1 is a top view of said device, with a part of an emery-wheel or stone shown in front thereof. Fig. 2 is a side view of Fig. 1, and Fig. 3 is a front view of said device.

The device consists of a slotted arm, *a*, extended from the support *b*, on which is fastened an adjustable attachment comprising the handle *c*, cam *d*, the raised sides and front *e*, which said raised sides afford bearings for the pivot *f*. The bolt and thumb-screw *g h* firmly secure this part of the device to the slotted arm *a*. At *i* is shown a part of an emery-wheel, stone, &c., the relative position of the device to which is apparent from said Figs. 1 and 2. At *k* is a perpendicular arm extending downward from said support *b*, of which there may be one or two, as may be desired, and which fits into a cylindrical upright attached to the frame-work in front of the wheel or stone *i*. A thumb-screw in said cylindrical upright is used to fasten the arm *k* therein, in adjusting the entire device to the proper position relative to said stone or wheel. By having two of said arms *k*, as shown in Figs. 1 and 3, the device may be used right-handed or left-handed, as might be desired, by placing one or the other of said arms in said cylindrical upright.

The manner of using said device is substantially as follows: When used for grinding or evening-up castings, &c., one end of the casting is rested on the top of the support *b*, and the other end is rested on the top of the raised front *e*, and immediately against the cam *d*. The operator grasps the handle *c* with one hand, and with the other guides the casting aforesaid. As one end of said casting has a continual bearing against the cam *d*, the raising and lowering of said handle will easily and accurately govern and control the bearing of said casting against the revolving wheel *i*. If the device be used in truing-off the wheel, stone, &c., the tool to be used is placed and operated in substantially the same manner as the casting above described. The complete control over, and the accurate government of, the tool aforesaid which is given to the operator by said device, enables him to reduce the superficial inequalities of the stone or wheel with great rapidity, steadiness, and perfection. By means of the slot in the arm *a* the said adjustable attachment can, on loosening the thumb-screw H, be carried nearer to or removed farther from the wheel or stone, as may be required for different-sized castings, or as may be demanded by the varying uses and purposes to which the device may be applied.

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

In a rest for truing-off emery-wheels and stones, and for evening-up castings, &c., the slotted bar *a*, having a support and arm or arms, *k*, in combination with the cam-lever *c d*, and its supporting and adjusting devices *e g h*, substantially as herein specified.

ELEAZER THOMAS.

Witnesses:
THOS. P. BARNEFIELD,
GEO. WALTER BARNEFIELD.