J. G. ROMINGER.

Lathe Rest.

No. 68,654, Patented Sept. 10, 1867.

Fig. 1

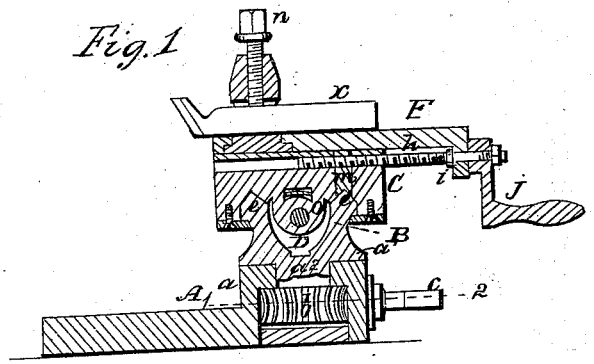


Fig. 2

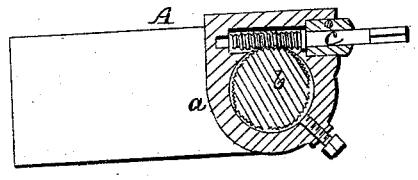
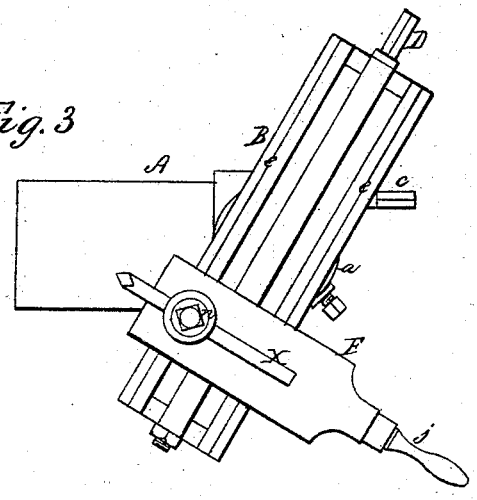


Fig. 3



Witnesses
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G. B. Price

Inventor
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By his Atty
H. Howson

United States Patent Office.

J, G. ROMINGER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND J. F. JOHNSON, OF THE SAME PLACE.

Letters Patent No. 68,654, *dated September* 10, 1867.

IMPROVEMENT IN SLIDE-RESTS FOR LATHES.

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, J. G. ROMINGER, of Philadelphia, Pennsylvania, have invented certain Improvements in Slide-Rests for Lathes; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists in combining with the lower plate and the bed of a slide-rest a worm-wheel on the latter, and a spindle, with a worm, on the former, so that the point of the tool can be made to traverse in a line at any desired angle in respect to the latter bed.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a sectional elevation of my improved slide-rest for lathes.

Figure 2 is a sectional plan on the line 1–2, fig. 1, and

Figure 3 is a plan view.

At the outer end of the plate A, secured to the bed-plate of a lathe in the usual manner, is a hollow cylindrical projection, *a*, upon which bears a similar projection, a^1, forming a part of a bed, B, a short spindle, a^2, extending from the projection a^1 into the said hollow projection *a*, and having at its lower end a worm-wheel, *b*. In bearings in the projection *a* turns a spindle, *c*, a worm on which is adapted to the teeth of the wheel *b*, the said spindle projecting beyond the plate A, and having a square outer end for the reception of a suitable instrument by means of which the spindle may be turned. On parallel V-shaped guides *e e*, near the opposite edges of the bed B, slides a plate, C, and through a nut, *o*, at the under side of this plate, passes the usual screw-shaft D, which turns in bearings at the opposite ends of the bed B. A plate, F, is so secured to the plate C as to slide freely thereon in a direction at right angles to the bed, and in a projection, *i*, at the outer end of the plate, turns a screw-spindle, *h*, to which is secured a crank-handle, *j*, the opposite end of the spindle passing through a nut, *m*, attached to the plate C. Through a slotted projection on the plate F passes a cutting tool, X, which is secured in the usual manner.

By turning the spindle *h* or the screw-shaft D the cutter may be moved from one end to the other of the bed, or to or from the object in the lathe, as in slide-rests of the usual construction. Independent of these movements, however, another may be imparted to the cutting tool by turning the worm-spindle, the bed and its plate, with the tool, being thereby readily and accurately adjusted to any desired angle in respect to the lathe.

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

The combination and arrangement of the plate A, the worm-wheel *b*, confined therein, and secured to the short spindle a^2 of the bed B of a slide-rest, and the worm-spindle *c*, all as set forth for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. G. ROMINGER.

Witnesses:

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W. J. R. DELANY.