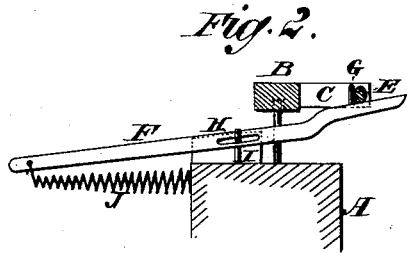
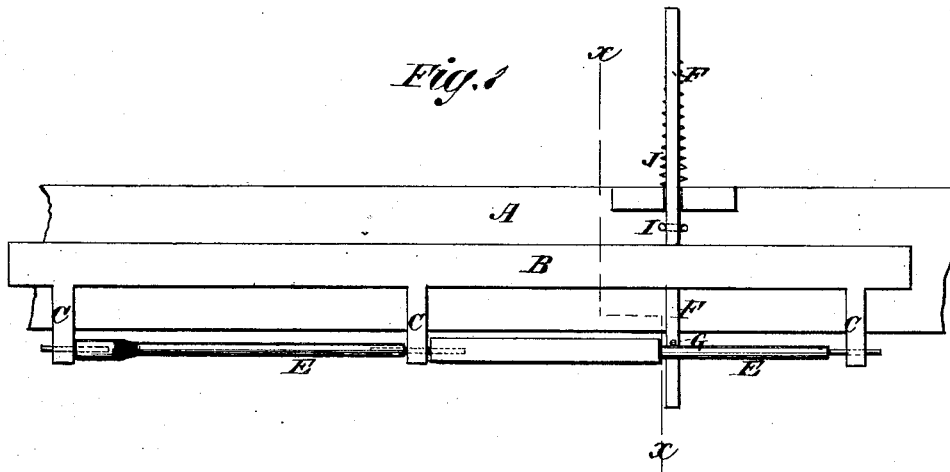


J. E. F. LELAND.

Lathe-Rest.

No. 163,670.

Patented May 25, 1875.



WITNESSES:

Francis McQuell
A. F. Terry

INVENTOR:

J. E. F. Leland
BY *Wm. H. [Signature]*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES E. F. LELAND, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN LATHE-RESTS.

Specification forming part of Letters Patent No. **163,670**, dated May 25, 1875; application filed December 19, 1874.

To all whom it may concern:

Be it known that I, JAMES E. F. LELAND, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and useful Improvement in Lathe-Rest, of which the following is a specification:

This invention relates to lathes for turning irregular forms; and consists of a spring-rest for supporting the article being turned, constructed and operating as hereinafter described.

In the accompanying drawing, Figure 1 is a top view, showing a portion of the lathe and the position of the rest. Fig. 2 is a vertical cross-section of Fig. 1, taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the head of the lathe. B is a rail, having two or more arms, C, for holding the centers of the lathe. E represents the article being turned. The rail B may (with the article being turned) be made to move longitudinally, so that the cutter may be stationary on the bed A, or the article being turned may be supported from the bed and the cutter be carried by the bar.

I do not confine the use of the spring-rest to any particular kind of lathe, so long as the lathe is made for turning irregular forms.

F is the spring-rest. This rest consists of a bar which is supported on the bed, and passes under the article being turned, having in its face or upper side a pin, G. The angle formed by the pin and the face of the bar resists the pressure of the cutter and keeps the article steady. H is a slot in the rest, which allows it a longitudinal movement on the stud I. J is a spiral or other spring attached to the bed and to the rest. This spring is given a certain amount of tension to force the rest forward toward the article to keep the pin G in constant contact, while the rest will adjust itself to the irregularities of the article being turned.

This rest is perfectly self-adjusting, and operates admirably for the purpose for which it is intended.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The self-adjusting spring-rest F, having pin G and slot H, combined with a lathe-bed having stud I and a cutting-tool, as and for the purpose specified.

JAMES E. F. LELAND.

Witnesses:

J. W. DURKEE,
R. W. LUCAS.