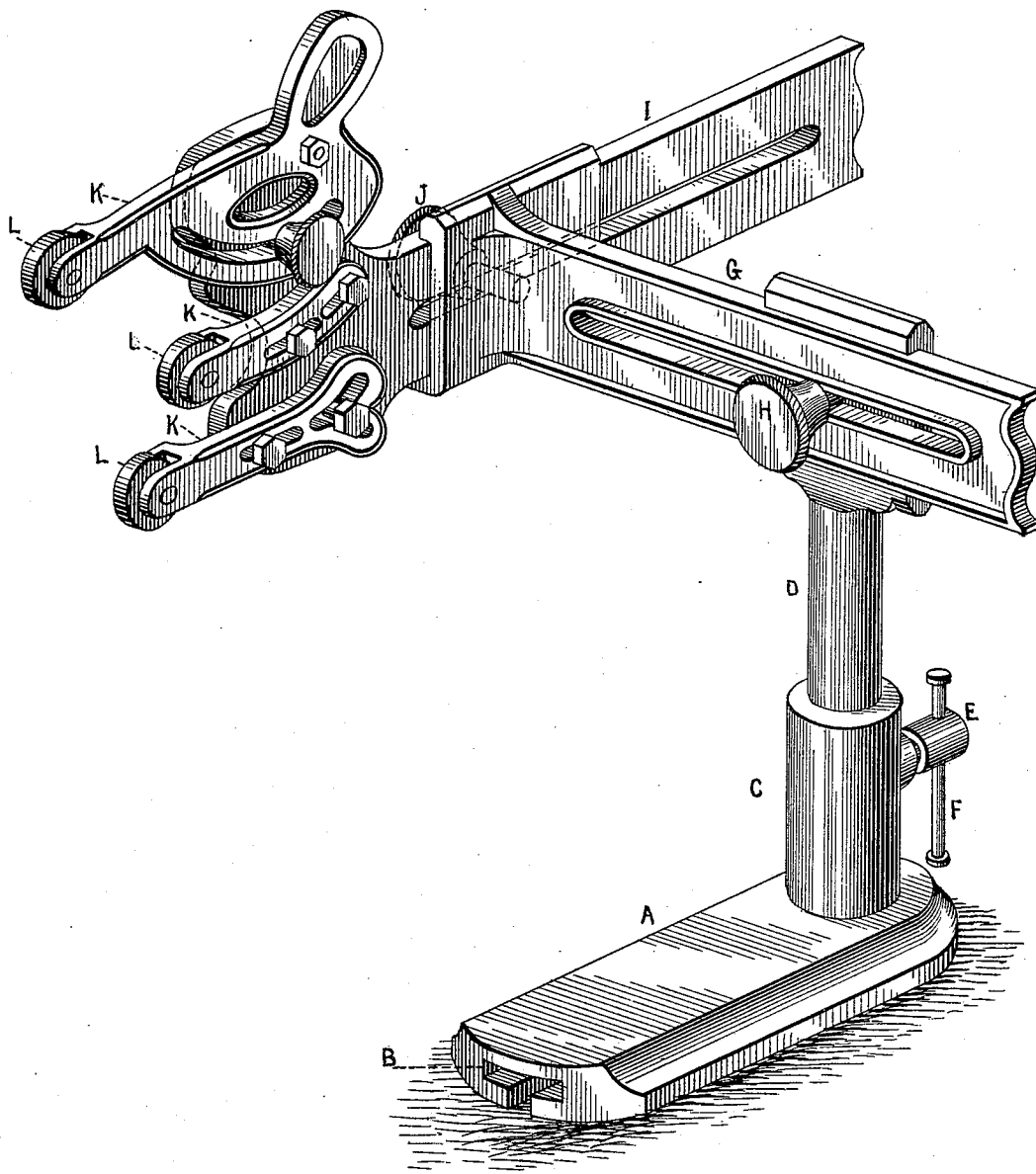


(No Model.)

W. H. WHITE.
BACK REST FOR TURNING LATHES.

No. 470,229.

Patented Mar. 8, 1892.



Witnesses:

John H. Slattery
Charles S. Dodge

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UNITED STATES PATENT OFFICE.

WILLIAM H. WHITE, OF WORCESTER, MASSACHUSETTS.

BACK-REST FOR TURNING-LATHES.

SPECIFICATION forming part of Letters Patent No. 470,229, dated March 8, 1892.

Application filed March 9, 1891. Serial No. 384,299. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. WHITE, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Back-Rest for Turning-Lathes, of which the following is a specification.

My invention relates to improvements in adjustable back-rests; and its objects are, first, to provide bearings for three sides of the article being turned, which shall wholly prevent its vibrations under the cutting-tool; second, to afford facilities by which these bearings may be quickly adjusted to any part along the length of and to any-sized work, and, third, to reduce the friction of the bearings upon the work to the smallest amount. I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

A is the foot or shoe with a slot B, in which slides the set by which my invention is attached to the frame of the lathe.

C is an upright socket into which sets the adjustable standard D and held in place at various heights by the set-screw E, with its handle F.

G is a horizontal slotted arm extending at right angles to and sliding in the grooves of the head of the standard D, and held in place at various lengths by the thumb set-screw H. I is a similar horizontal adjustable arm extending at right angles to and sliding in the groove of the head of the arm G and held in place at various lengths by the thumb set-screw J and carrying attached to its head the three adjustable jaws, as shown and marked K K K, and capable of adjustment by their

slots and set-screws and carrying at their ends the friction-rollers L L L, which when properly adjusted bear upon three sides of the work being turned and with slight friction prevents its vibration. The standard D raises the whole to the height of the work, the arm G provides for the setting of the jaws K K K along the length of the work, and arm I provides for the moving of said jaws up to and back from the work.

Another purpose of the arm G is to provide for moving the rest along the length of the work without loosening the shoe or foot A when once attached to the lathe.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a socket and adjustable standard having a grooved head with two slotted horizontal adjustable sliding arms at right angles to each other, the first carried by the grooved head of the standard, the second by the grooved head of the first arm, by means of which combination the bearings L L L may be moved up to and away from and back and forth along the length of the work without loosening the shoe from the lathe or its being necessary to readjust the shoe, all substantially as set forth.

2. The combination, in a back-rest for lathes, of the three independent adjustable jaws K K K, provided with slots and screws and with friction-rollers, all substantially as set forth.

WILLIAM H. WHITE.

Witnesses:

HIRAM F. BROWN,
ALICE W. FORBES.