(No Model.) 2 Sheets—Sheet 1.

G. W. HAYES.

BACK REST.

No. 371,062. Patented Oct. 4, 1887.

Fig. 1.

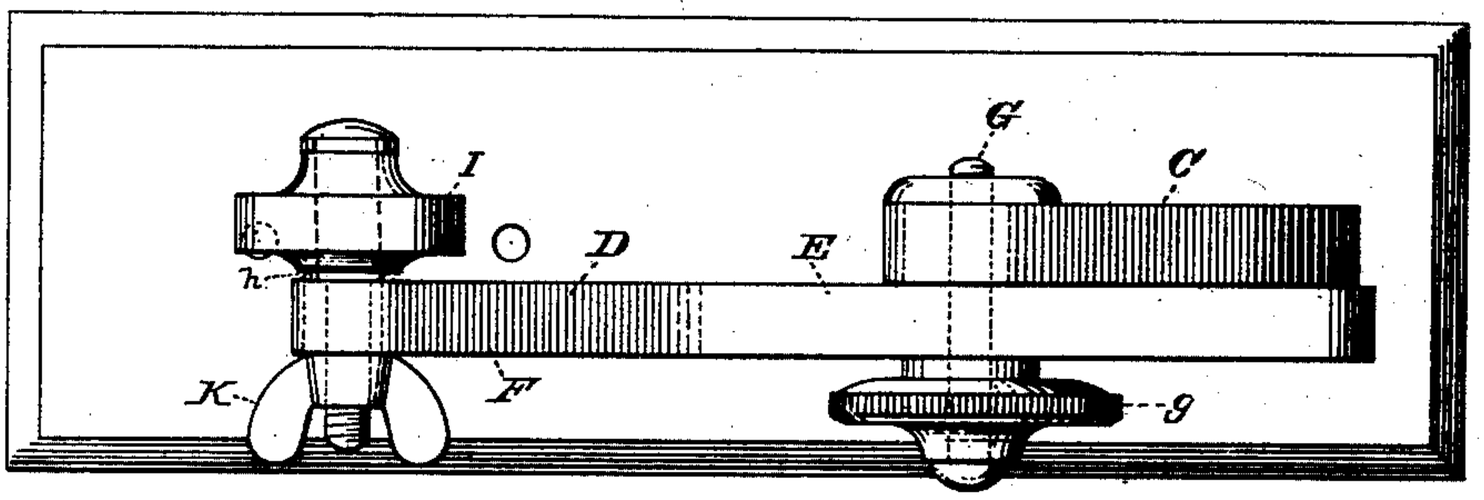
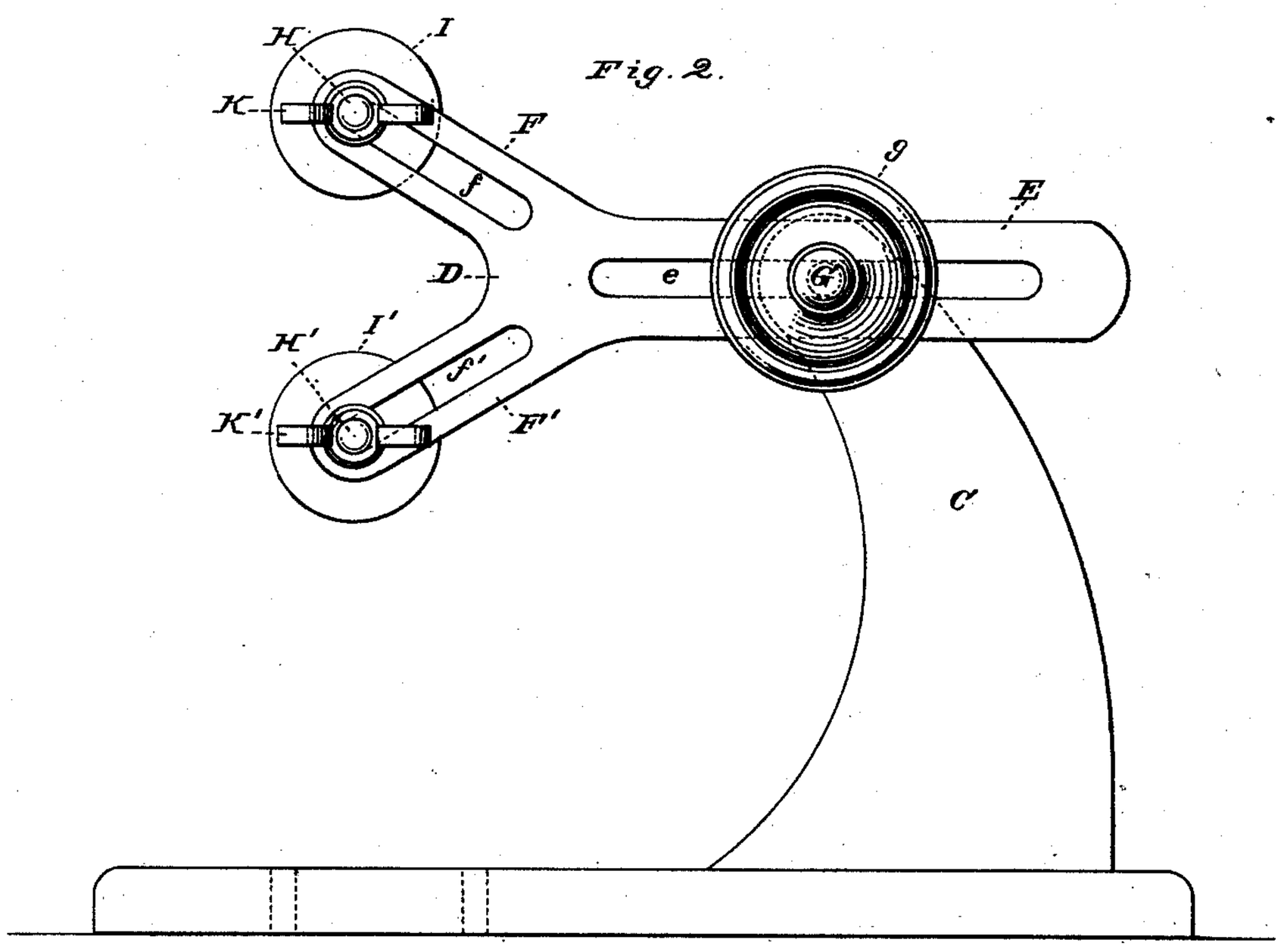


Fig. 2.



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(No Model.) 2 Sheets—Sheet 2.

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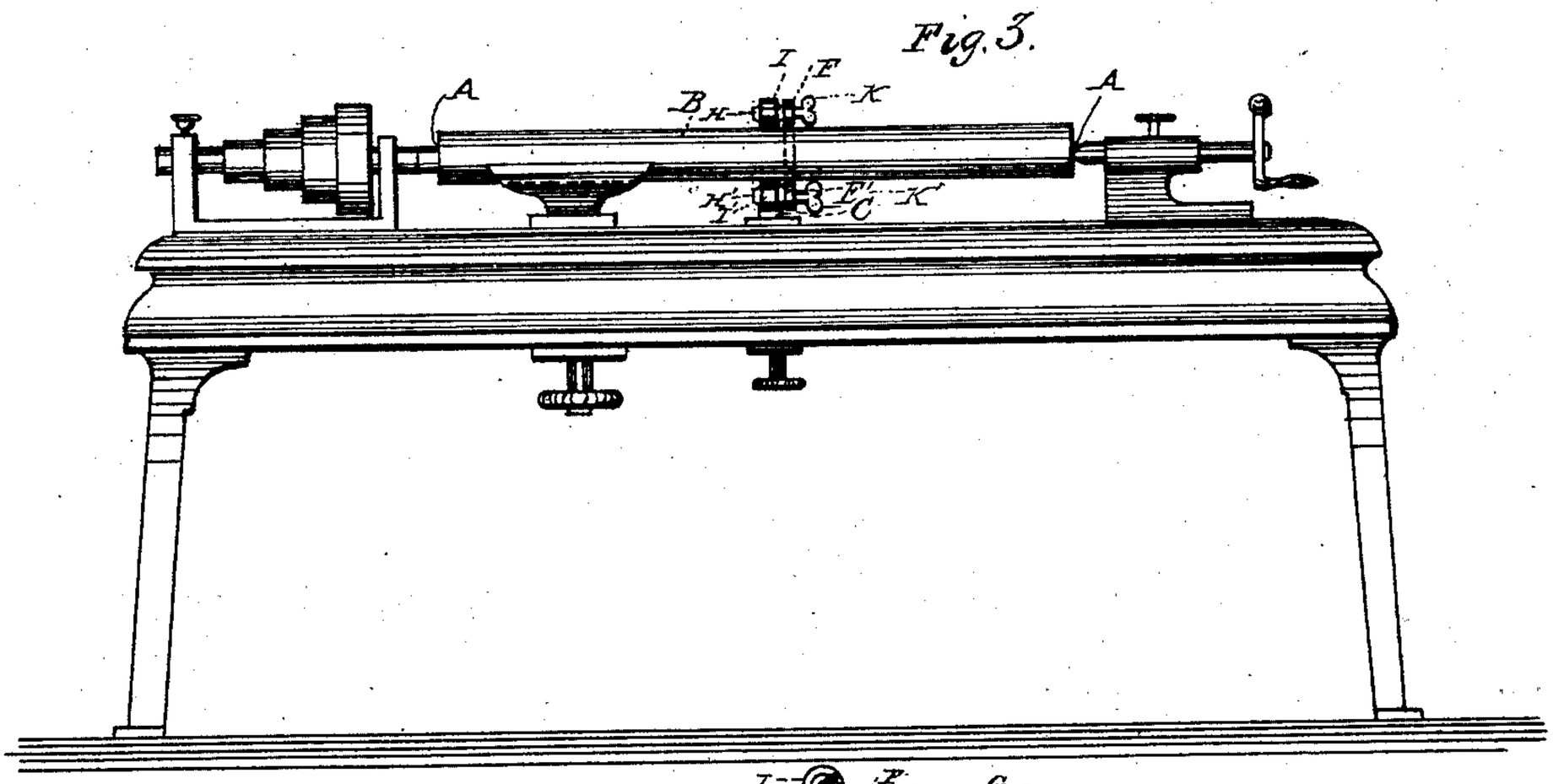
BACK REST.

No. 371,062. Patented Oct. 4, 1887.

Fig. 3.



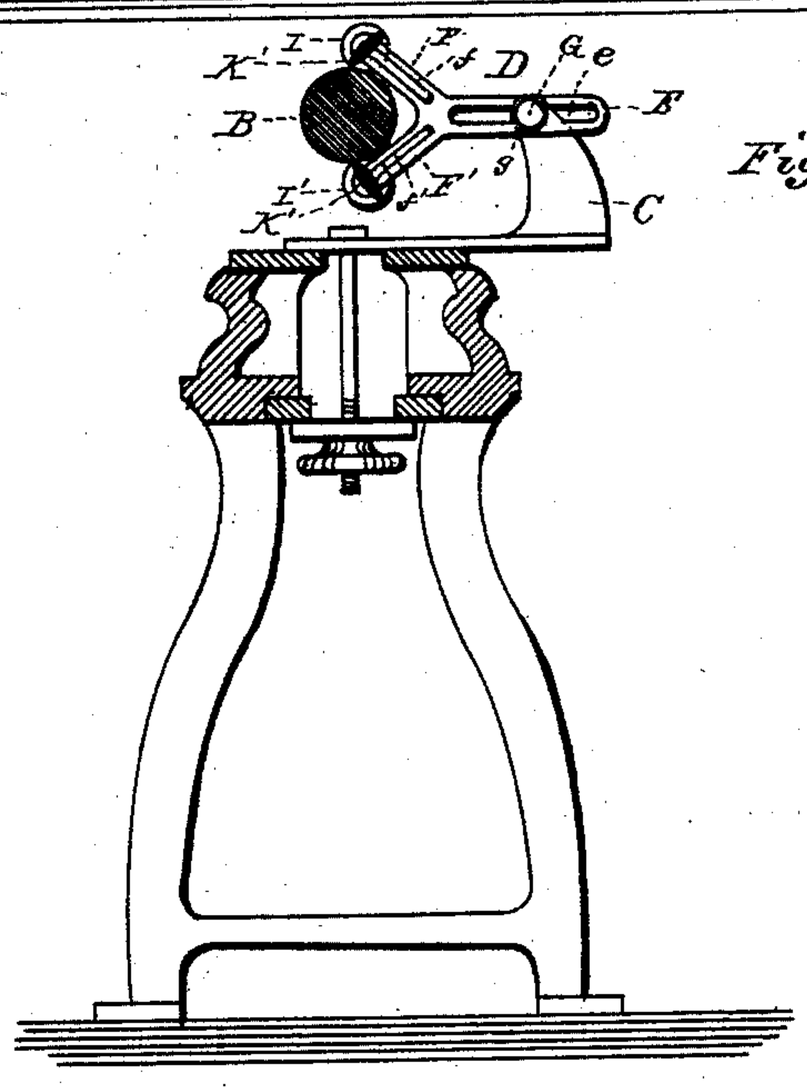


Fig. 4.

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UNITED STATES PATENT OFFICE.

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BACK-REST.

SPECIFICATION forming part of Letters Patent No. 371,062, dated October 4, 1887.

Application filed May 14, 1887. Serial No. 238,256. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. HAYES, a citizen of the United States, and a resident of Goshen, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Back-Rests; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention and is a top view. Fig. 2 is a side view. Fig. 3 is an elevation of a lathe with the rest in position, and Fig. 4 is a section of the same.

The invention relates to improvements in back-rests; and it consists in the construction and novel combination of parts, as hereinafter set forth.

The back-rest commonly used by turners is made with a fork, and either scorches or mars the piece of work being turned.

The object of the invention is to avoid the above, and at the same time perfectly support a long piece when being turned, so as to effectually prevent all swaying and trembling and cause the piece to turn true.

Referring to the drawings, A A designate the lathe-centers, and B a piece of work being turned between them.

C is a standard rising from the lathe-bench or other proper support a suitable height, and D is a Y-shaped bar having the shank E, provided with the longitudinal slot *e*, and the two equal arms F and F′, standing at opposite angles from the shank, and provided, respectively, with the longitudinal slots *f* and *f′*.

G is a set-screw having a large milled head, *g*, or other suitable handle, by means of which the shank E can be secured upon the upper end of the standard at any desired point.

H and H′ are rods provided with the shoulders *h*, passing through the slots *f f′*, respectively, and having the anti-friction rollers I and I′, journaled on their extended portions on one side, and being provided on the end of said portions with collars to retain said rollers. The opposite ends of the rods are threaded and engaged by the thumb-nuts K and K′, respectively, by means of which the rods and rollers can be set at any desired points of the slots *f* and *f′*. Thus the bar D can be set farther in or out at any angle, to suit different distances from the standard C′ or different heights, by means of the slotted shank and set-screw G, and the anti-friction disks can be set nearer or farther apart by means of the rods and thumb-screws to suit different thicknesses of work. The anti-friction rollers, moreover, prevent the work from being marred, scorched, or burned.

Having described my invention, what I claim is—

In a back-rest, the combination, with the slotted bar supported by the standard C, and the set-screw to secure the bar to the standard, of the rigid diverging arms, the threaded rods passing through slots in said arms, the thumb-screw engaging the threaded ends of said rods, and the anti-friction rollers on the opposite ends of the same, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. HAYES.

Witnesses:
EDWIN W. HAWKS,
B. H. HOLMES.