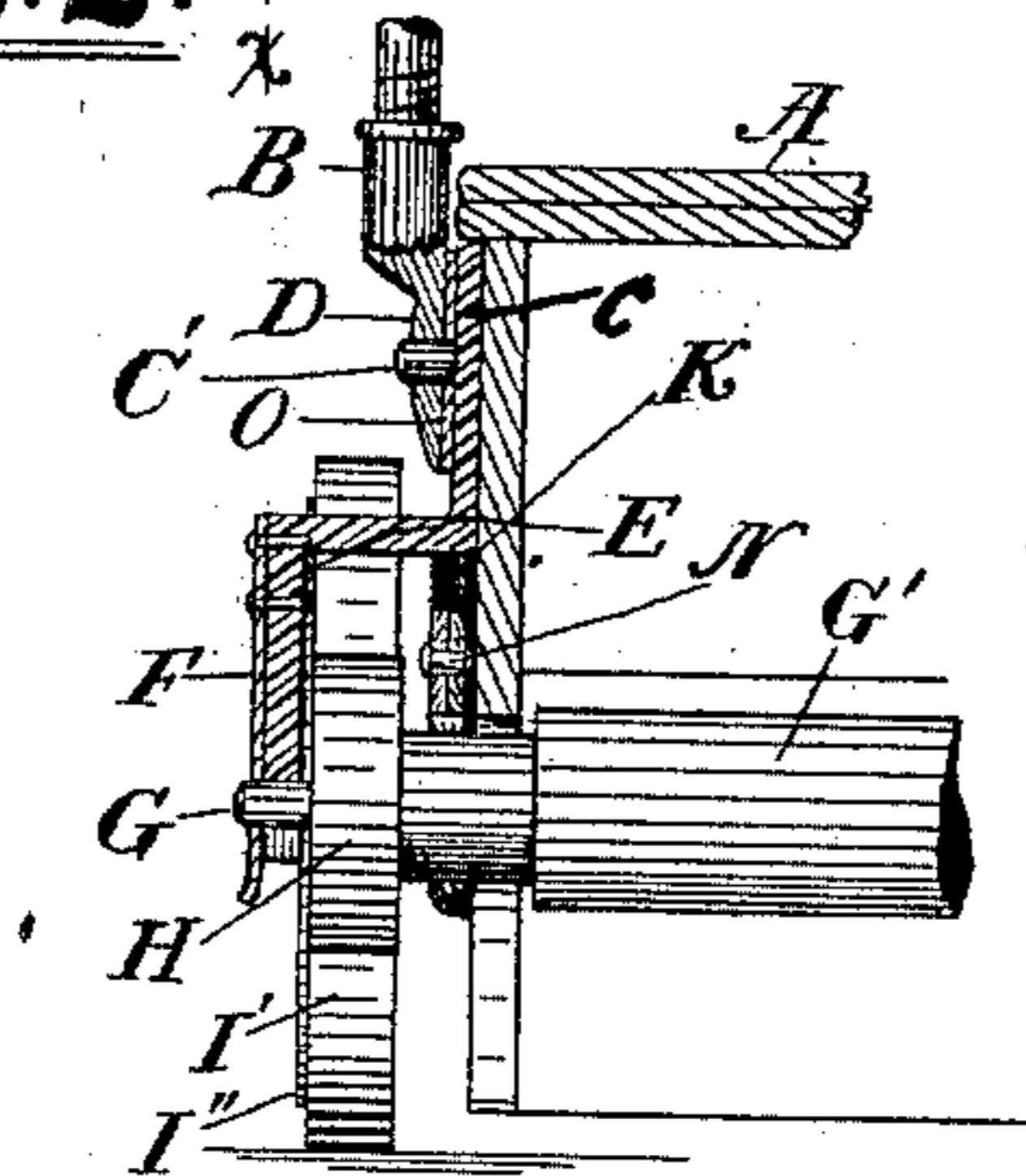
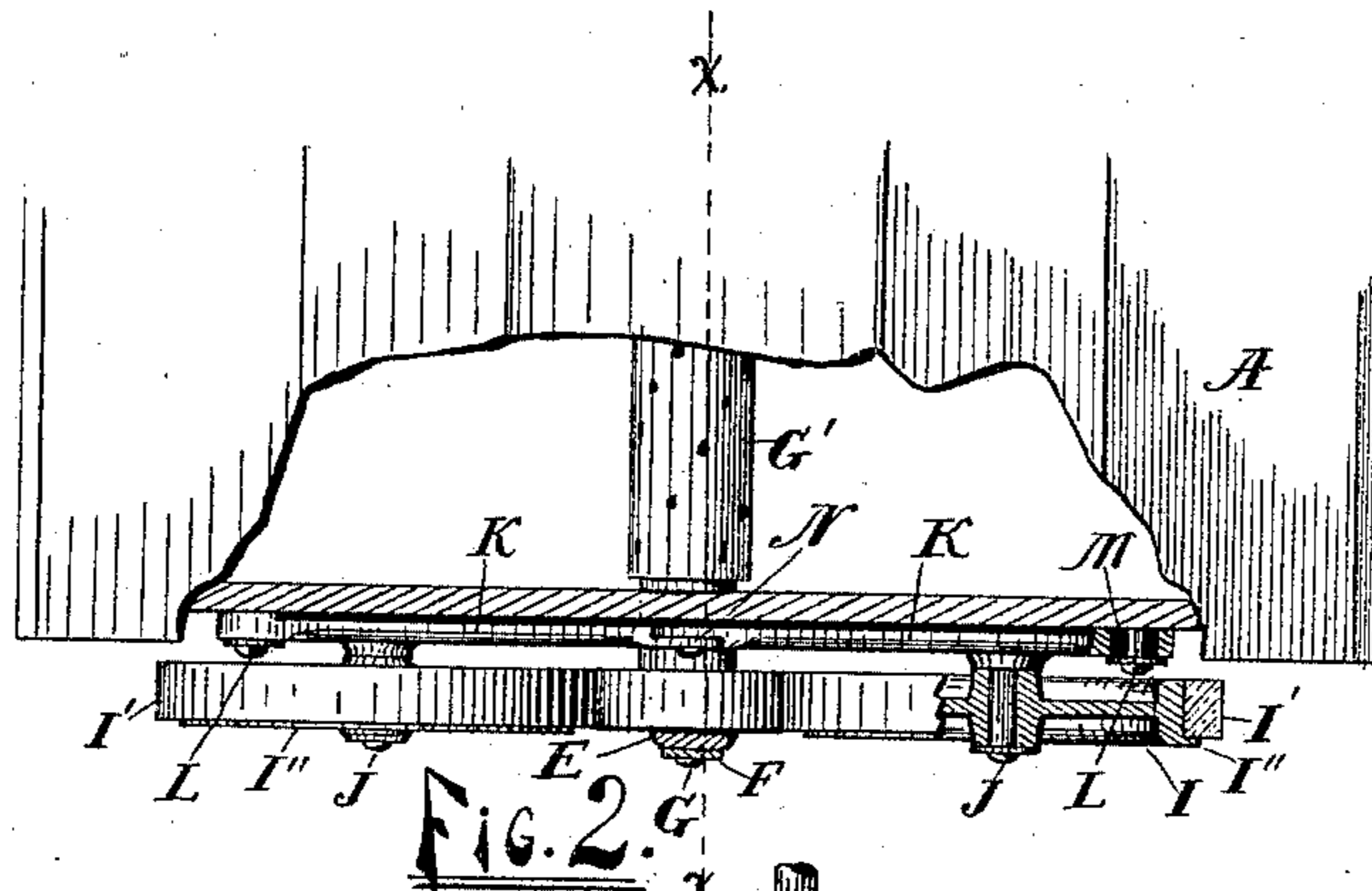
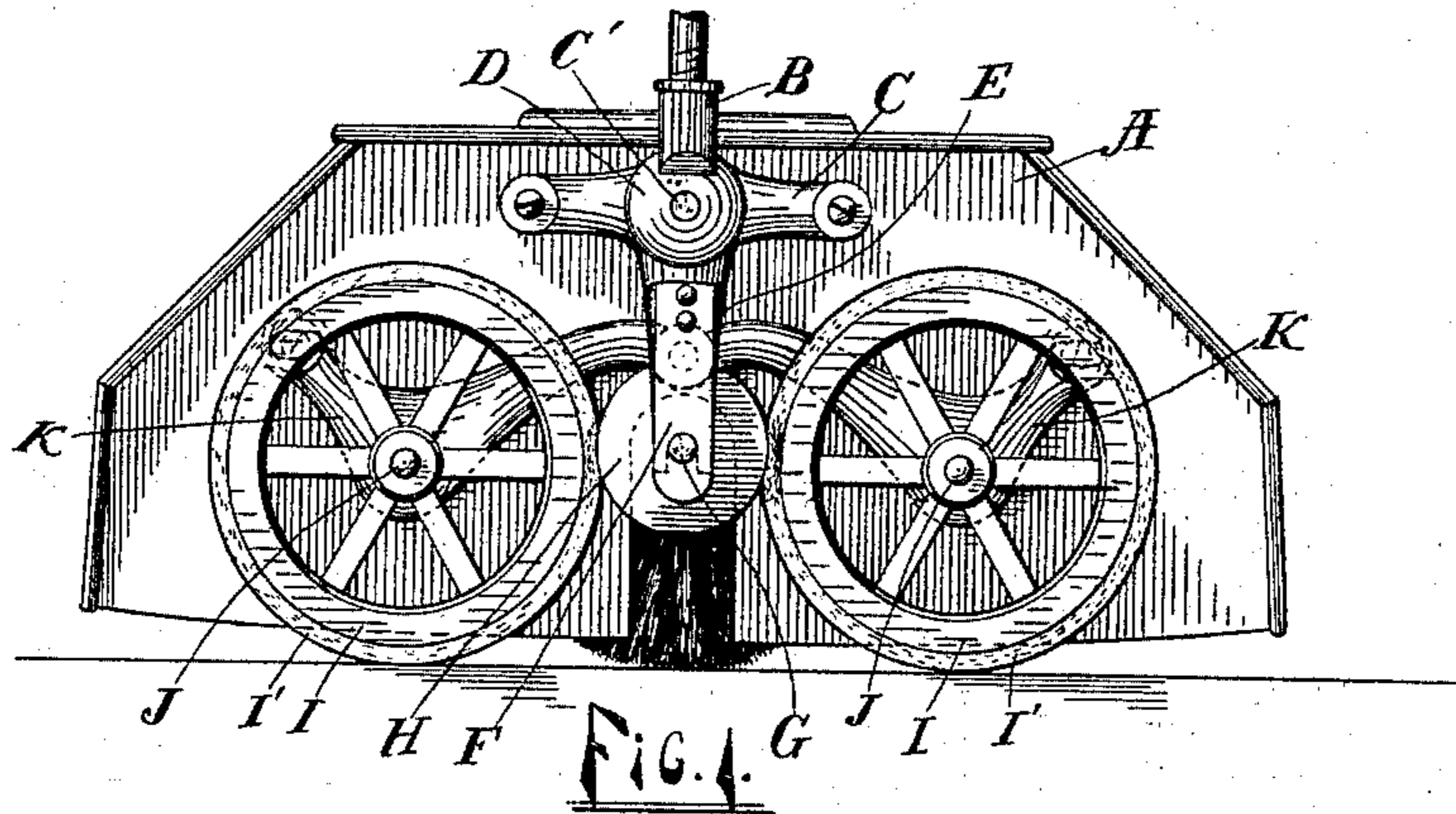


(No Model.)

S. H. RAYMOND.  
CARPET SWEEPER.

No. 476,212.

Patented May 31, 1892.



WITNESSES:

*George W. Shook,*  
*Louis Moulton,*

INVENTOR

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BY

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ATTORNEY.

# UNITED STATES PATENT OFFICE.

SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO T. STEWART WHITE AND THOMAS FRIANT, OF SAME PLACE.

## CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 476,212, dated May 31, 1892.

Application filed April 20, 1891. Serial No. 389,687. (No model.)

*To all whom it may concern:*

Be it known that I, SILAS H. RAYMOND, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers; and I do hereby 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.

My invention relates to improvements in carpet-sweepers; and its objects are to provide an improved carpet-sweeper having vertical elasticity, with devices whereby it will be depressed equally at both front and rear, and also to provide the same with other new and useful features, hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is an end elevation of a device embodying my invention; Fig. 2, a plan view of one end of the same with parts broken away, and Fig. 3 a vertical section on the line *xx* of Fig. 2.

Like letters refer to like parts in all the figures.

A is the case; B, the bail, having flexible arms embracing the case and terminating in disks D, having central openings engaging studs C' on the bail-plates C and having washers O, of some soft material like rubber or leather, interposed between said disks and bail-plates to increase the friction and prevent wear of the metal parts. E is a pendent arm attached to said bail-plate, having a downwardly-open bearing in its lower end, in which is removably secured the journal G of the brush-shaft G' by means of a spring F, attached at its upper end to said pendent hanger and having an opening near its lower end which engages the end of the said journal. By bending said spring outward at its lower end the brush-shaft is released and can be removed from the said bearings.

I are the driving-wheels, having a single radial flange I'' at the outer angle of the rim and a soft-rubber rim I', which engages said flange I'' at the rear and surrounds said

wheel. By providing but one flange I find said rim is easier placed in position and removed, while still sufficiently retained in place. Said driving-wheels engage the floor and pulley H on the brush-shaft and are journaled on studs J, attached to the curved levers K, which levers extend diagonally outward and upward at their outer ends and are pivotally secured to the end wall of the case by screws or studs L, which pass through horizontal slots M in said levers to permit of horizontal, while preventing vertical, motion of the ends of said levers. Said levers K are also prolonged inward and upward in a curve and meet at a point midway and above the brush-shaft, where they are pivoted to each other. By this construction any unequal pressure upon the respective driving-wheels due to the diagonal direction of the thrust upon the handle attached to the bail B is at once equalized upon both of said driving-wheels and the case sinks downward equally at both sides. As the inner ends of said levers will rise vertically and the outer ends move horizontally upon the screws L and the studs J move diagonally inward and upward the rims I' will be compressed equally against the pulley H.

What I claim is—

1. In a carpet-sweeper, levers having the driving-wheels journaled thereon, said levers pivoted to the case and horizontally movable thereon at their outer ends and pivotally attached to each other at their inner ends, substantially as described.

2. In a carpet-sweeper, levers having studs upon which the driving-wheels are journaled, said levers being extended from said studs diagonally upward and outward and having horizontal slots near their outer ends, and screws passing through said slots and attached to the case, said levers also extended inward and upward and pivotally connected to each other, substantially as described.

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

SILAS H. RAYMOND.

Witnesses:

LUTHER V. MOULTON,  
GEORGE W. SHOOK.