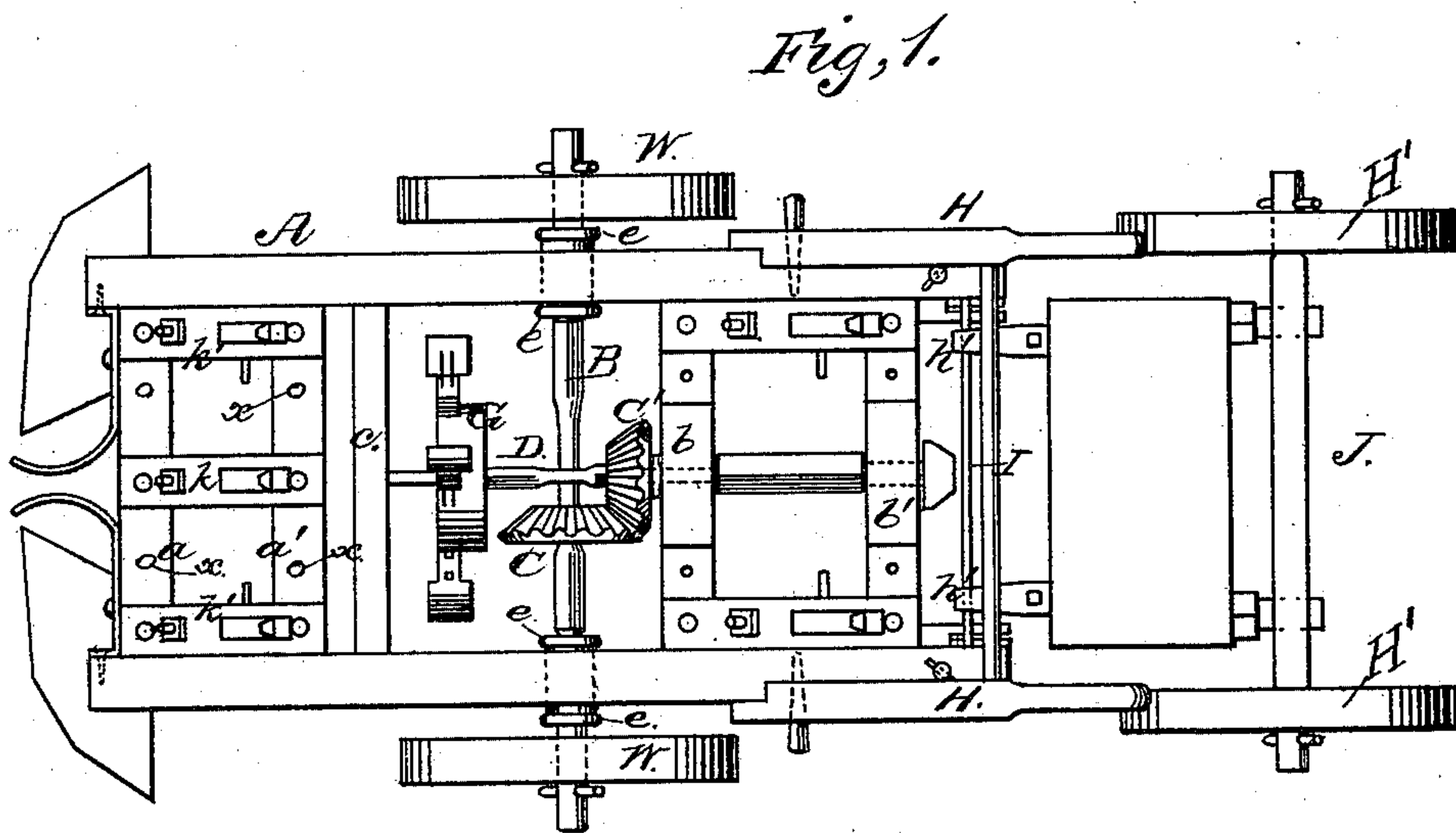
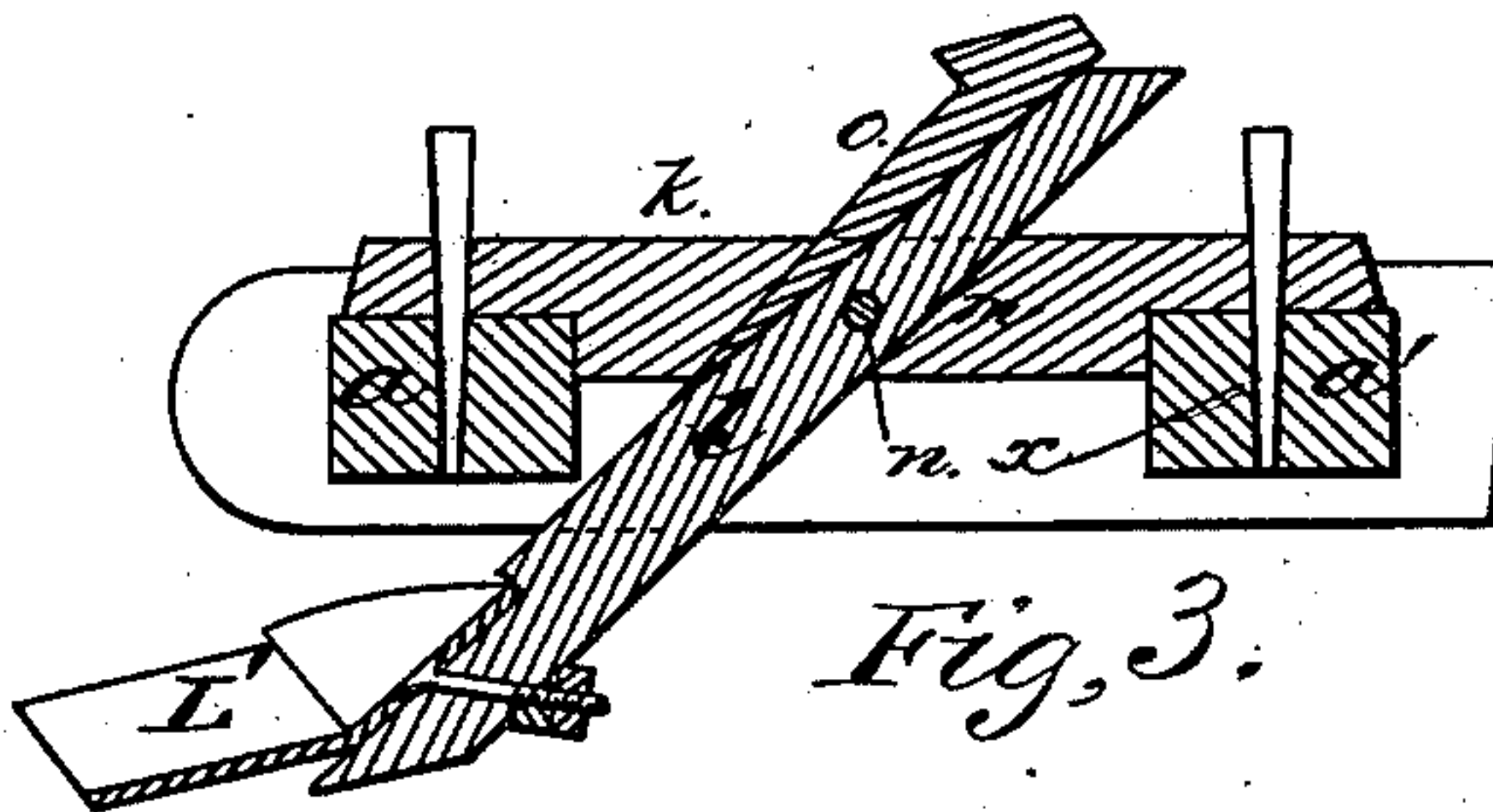
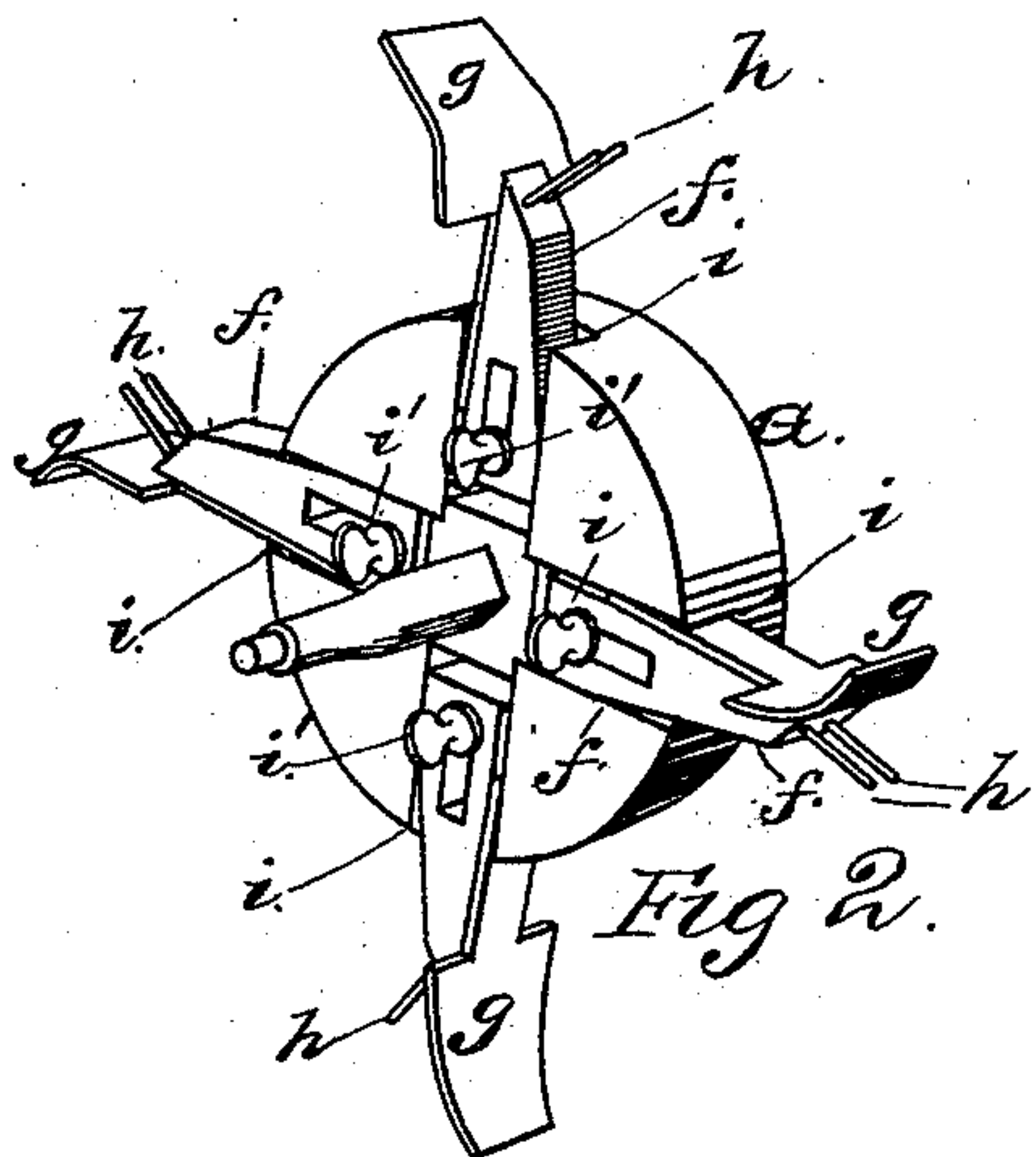


J. B. NICHOLS.
Cotton Chopper and Cultivator.

No. 225,856.

Patented Mar. 23, 1880.



WITNESSES

Villette Anderson.
A. J. Masi.

INVENTOR

INVENTOR
James Bell Nichols
by E. W. Anderson
His ATTORNEY.

UNITED STATES PATENT OFFICE.

JAMES B. NICHOLS, OF EVENING SHADE, ARKANSAS.

COTTON CHOPPER AND CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 225,856, dated March 23, 1880.

Application filed January 28, 1880.

To all whom it may concern:

Be it known that I, JAMES BELL NICHOLS, of Evening Shade, in the county of Sharp and State of Arkansas, have invented a new and valuable Improvement in Cotton Choppers and Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my improved machine, and Figs. 2 and 3 are details.

This invention has for its object the improvement of cotton-choppers; and it consists in the arrangement and novel construction of the various devices used, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates a strong rectangular frame, the side bars of which are braced transversely in front of the axle B by the beams *a a'* and in rear thereof by the braces *b b'*. There is also another brace, *c*, between the beams *a' b*.

The axle turns freely on the frame, and is provided at each end with a transporting-wheel, *w*, rigidly secured thereon, and acting as drivers.

The axle has its bearing in metallic plates let into the under side of the side bars of the frame, and is prevented from displacement by means of trunnion-plates. It is also held against endwise displacement by the collars *e* at each side of the bearing-plates. Keyed on this shaft is a bevel-gear, *C*, that engages a similar gear, *C'*, upon a longitudinal shaft, *D*, having its bearings in the beams *c* and *b b'*, and arranged at right angles to the axle. Upon this shaft is keyed a metallic disk, *G*, having in its front face a number of radial grooves, *i*, in which are seated and secured, by means of set-screws *i'* the squared standards *f*, to the lower ends of which are secured the cutting-blades *g*. These are curved longitudinally, but in outline are square.

Projecting oppositely from the cutters, and

rigidly secured to the standards, are a number of rake-pins, *h*, that follow the cutters and seize upon the cotton-stalk roots, effectually removing them.

The standards of the choppers are readily removable from the disk, when others may be substituted in case of injury to those in use.

H indicates handles projecting from the rear end of the frame, and secured thereto in any workmanlike manner; and H', caster-wheels that support the rear end of said frame. Extending transversely across the rear end of this frame is a metallic rod, *I*, to which is removably secured by means of hooks *h'* a sulky, *J*. This consists of an axle, transporting-wheels, short thills, to the ends of which the hooks *h'* are attached, and a raised seat. This sulky is designed to carry the driver, if he prefer to ride, and is made very light; but it may be detached by disengaging the hooks from rod *I*.

The frame has extending across the front braces, and generally secured thereto fixedly, a center beam, *k*, and at each side thereof the side beams, *k'*, that are adjustable, by means of perforations *x* in the said braces, to or from the beam *k*, thus changing the positions of the lateral plows *L* relative to the middle plow, *L'*, according to the nature of the work. The standards *l* of these plows extend down through the inclined slots *m* of the beam, and are pivoted thereto by means of pins *n* passing through the beams and standards, as shown.

The inclination of the standards may be increased or lessened at pleasure by means of the wedges *o*. These wedges fit in slots *m* in front of the standards or in rear thereof, and by varying the inclination of the standards regulate the penetration of the plows into the soil.

The rear braces have similar beams with attachments similar to the front beams, *k k'*. These beams and attachments may be removed bodily when the corn-chopping device only is required for use.

What I claim as new, and desire to secure by Letters Patent, is—

In a cotton-chopper, the combination, with the disk G and a mechanism operating the same, of the adjustable standards *f*, having downwardly-curved blades *g* attached to the ends of said standards, and the rake-pins *h*, projecting from said standards behind the plates *g*, all constructed and arranged to operate as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES BELL NICHOLS.

Witnesses:

J. NEELY SHAVER,

J. F. BROWN.