

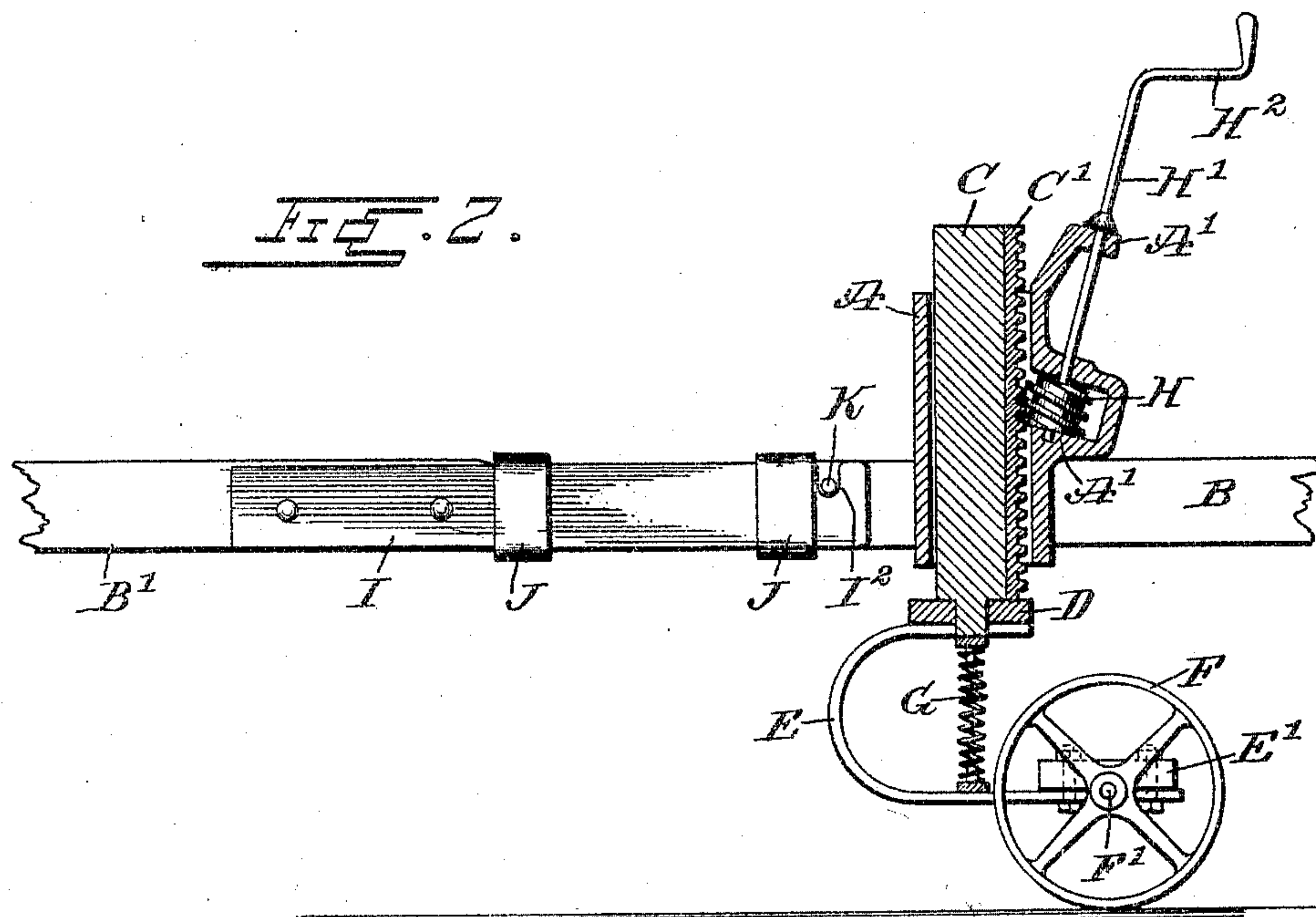
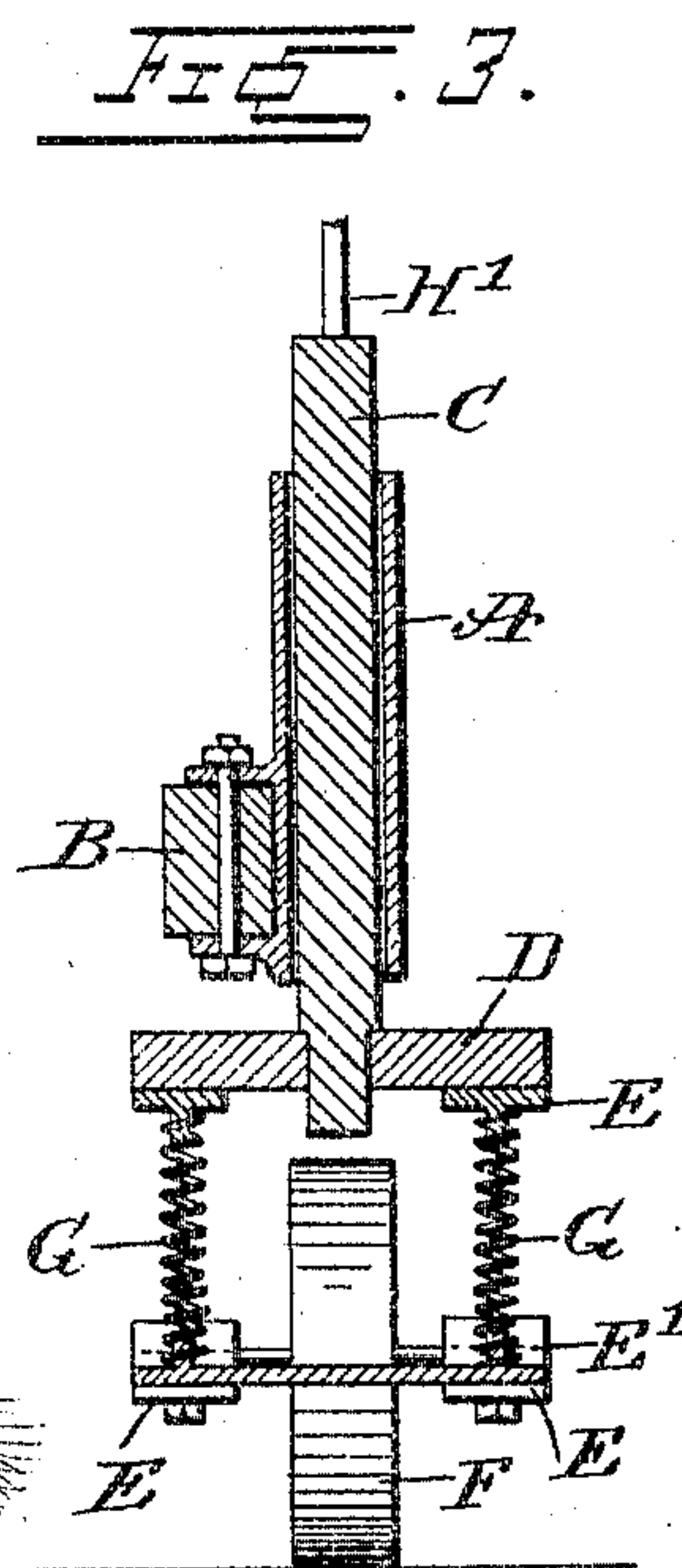
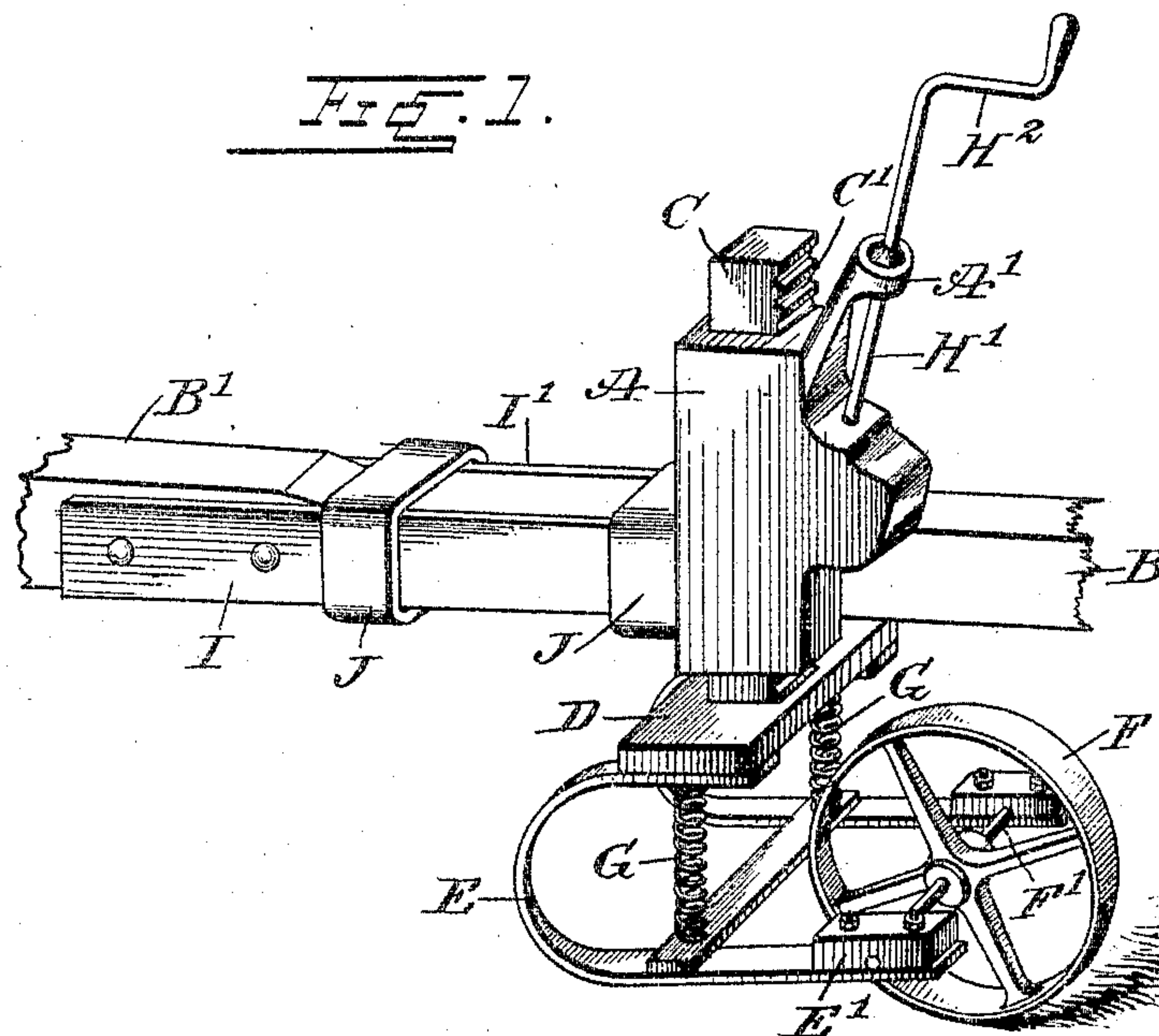
No. 776,321.

PATENTED NOV. 29, 1904.

H. W. HARTWIG.
TONGUE SUPPORT.

APPLICATION FILED APR. 21, 1904.

NO MODEL.



WITNESSES:

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HENRY WILLIAM HARTWIG, OF TAYLOR STATION, WISCONSIN.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 776,321, dated November 29, 1904.

Application filed April 21, 1904. Serial No. 204,194. (No model.)

To all whom it may concern:

Be it known that I, HENRY WILLIAM HARTWIG, a citizen of the United States, and a resident of Taylor Station, in the county of Jackson and State of Wisconsin, have invented a new and Improved Tongue-Support, of which the following is a full, clear, and exact description.

My invention relates to supports for the tongues of vehicles and heavy machinery, such as mowers, self-binding harvesters, and threshing-machines and other farm machinery; and the object of the invention is to provide a new and improved tongue-support which is simple and durable in construction, readily applied, and adjustable to hold the tongue in a proper position relatively to the animals drawing the machine, so as to prevent undue strain on the necks of the animals, and thereby avoid sores, fatigue, &c.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a preferred form of my invention. Fig. 2 is a sectional side elevation of the same, and Fig. 3 is a transverse sectional view of the same.

The form of my improved tongue-support shown in the drawings is provided with a bearing A, bolted or otherwise secured to the forward end of a tongue B, and in this bearing is mounted to slide vertically a post C, carrying on its lower end a transverse bar D, to which are fastened the ends of U-shaped springs E, having bearings E' at their free ends to receive the shaft F' of a wheel F, adapted to travel on the ground. Coil-springs G are interposed between the end members of the U-shaped springs E, so as to reinforce the latter and properly carry the front end of the machine and to steady the latter when traveling over rough ground.

On the post C is secured a rack C' in mesh with a worm-wheel H, secured on a shaft H', journaled in the bearing A and provided at its upper end with a crank-arm H², adapted to be taken hold of by the operator to turn the said shaft H' and the worm-wheel H to move the rack C', and with it the post C,

either in an upward or downward direction, according to the direction in which the crank-arm H² is turned. Thus the lower end or bottom of the wheel F can be moved nearer to or farther from the tongue B to regulate the distance between the ground and the front end of the machine, it being understood that the post C is locked in place after being adjusted by the worm-wheel H, meshing in the rack C'.

On the front end of the tongue B in advance of the support described is arranged an extension-tongue B', provided at its rear end with side plates I I' to form a fork between which extends the forward end of the tongue B. Bands or collars J surround the plates I and the forward end of the tongue B in a transverse direction to lock the plates to the tongue B, the latter carrying a transverse pin K, adapted to be engaged in notches I², formed in the rear ends of the plates I and I'.

When it is desired to disconnect the extension-tongue B' from the tongue B, the operator moves the tongue B slightly upward to disengage the notches I² from the pin K and then moves the extension-tongue B' forward until it finally engages the rear band J, after which the tongue can be dropped down and rest with its front end on the ground, but be carried at its rear end by the forward band J on the tongue B.

It is to be understood that I have illustrated and described merely the principle of my invention and that it is not confined to the exact details of construction disclosed, but that various modifications may be made therein without departing from the spirit of my invention as set forth in the appended claims.

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

1. A tongue-support, comprising a wheel journaled on springs, a vertically-adjustable post carrying the springs, and means for adjusting the post vertically and holding it in an adjusted position.

2. A tongue-support comprising springs, a wheel journaled thereon, a vertically-adjustable post having a rack and carrying said springs, and means for adjusting the post and holding it in adjusted position, said means

comprising a worm-wheel meshing with said rack.

3. A tongue-support, comprising a bearing adapted to be bolted to the tongue, a post
5 mounted to slide in said bearing and carrying a rack, a worm-wheel under the control of the operator and journaled in said bearing and in mesh with said rack, U-shaped springs fas-
tened to the lower end of said post and car-
10 rying at their free ends bearings, and a wheel journaled in said bearings.

4. A tongue-support, comprising a bearing adapted to be bolted to the tongue, a post
15 mounted to slide in said bearing and carrying a rack, a worm-wheel under the control of the

operator, and journaled in said bearing and in mesh with said rack, U-shaped springs fas-
tened to the lower end of said post and car-
rying at their free ends bearings, a wheel
journaled in said bearings, and auxiliary re- 20
inforcing coil-springs between the members of said U-shaped springs.

In testimony whereof I have signed my name to this specification in the presence of two sub-
scribing witnesses.

HENRY WILLIAM HARTWIG.

Witnesses:

CHAS. J. GIBSON,
EMERY COX.