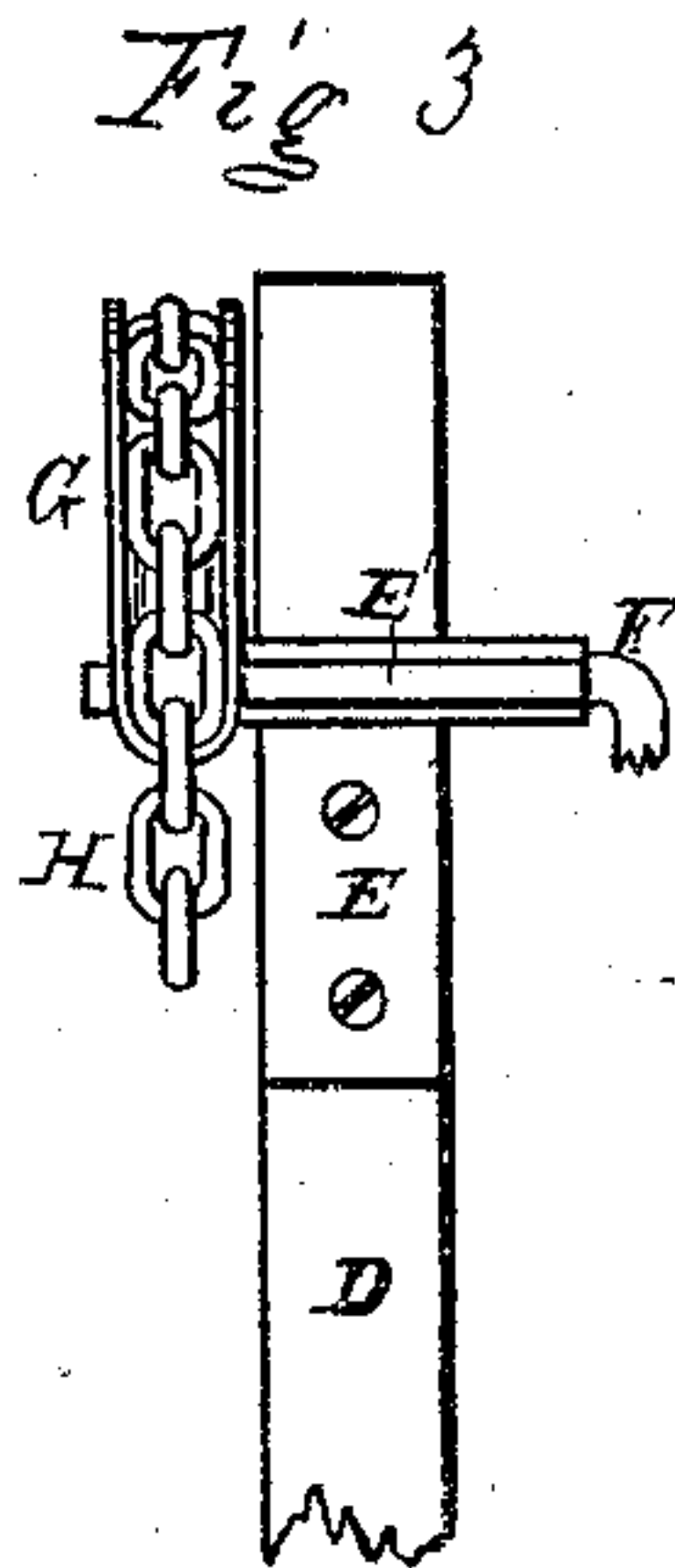
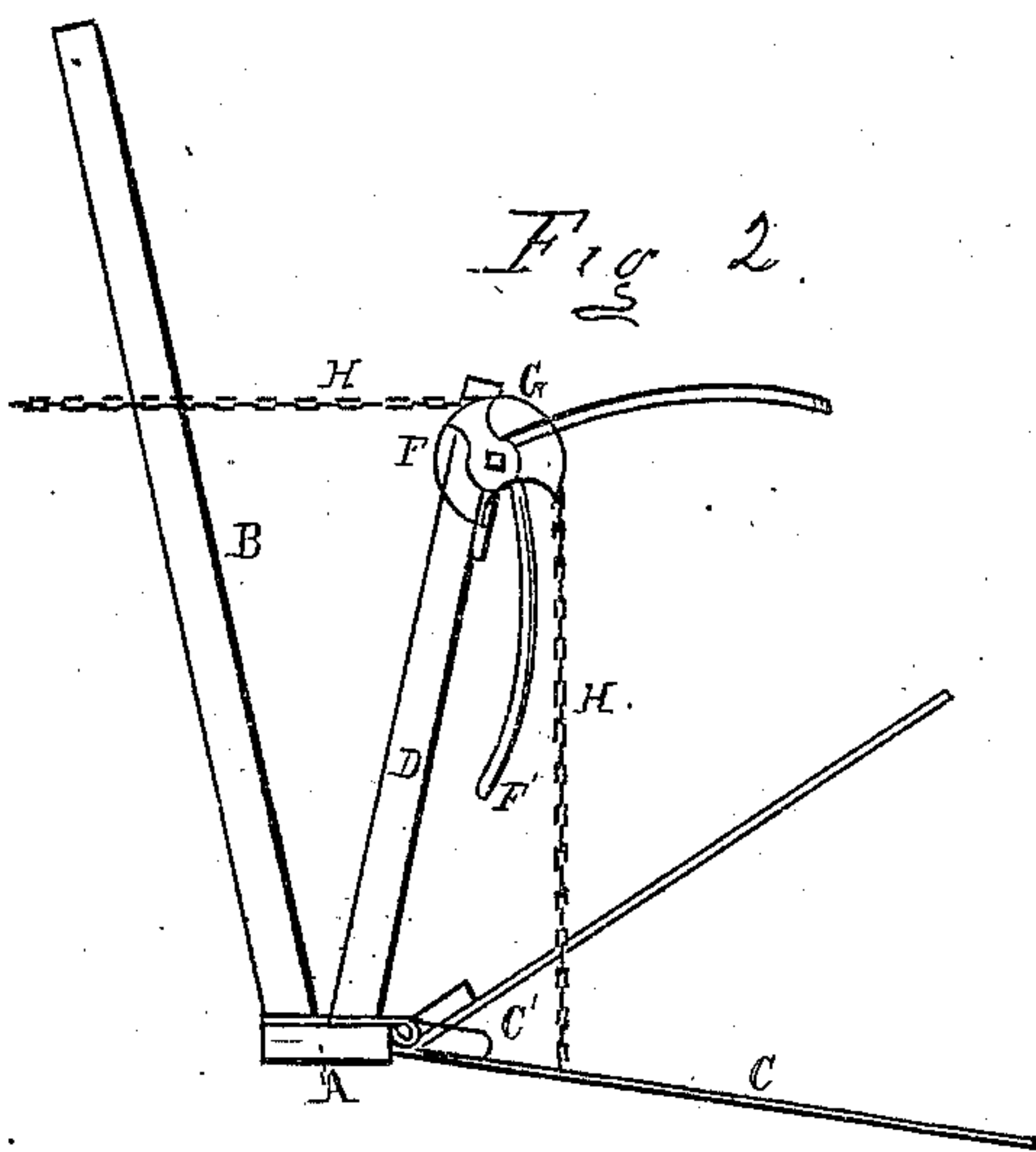
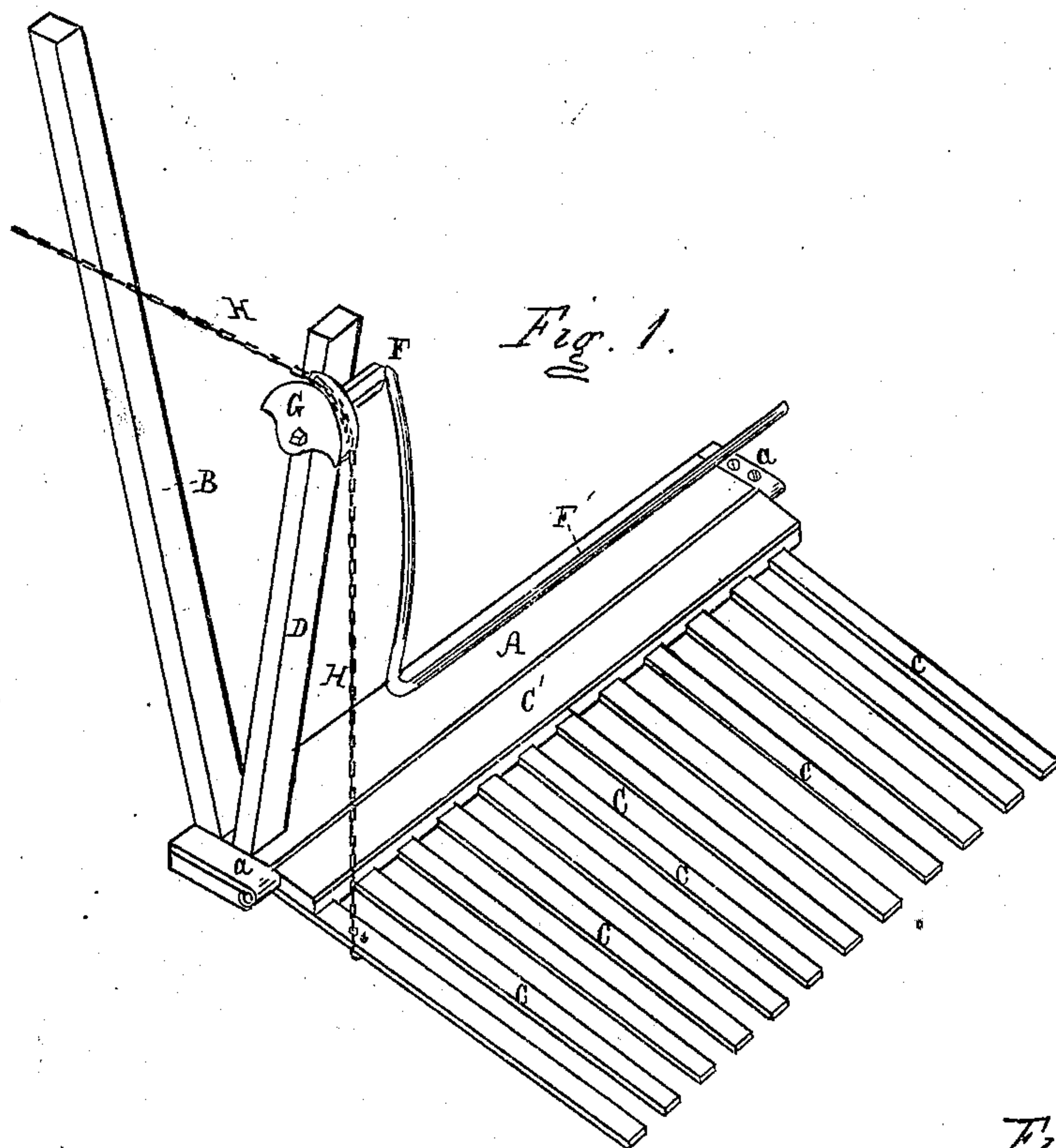


J. O. Taber.
Harvester Dropper.

No 86602.

Patented Feb 2 1869.



Witness:
Alex. Makon
H. H. Doubleday

Inventor
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by his attorney
Amesbury

UNITED STATES PATENT OFFICE.

J. OSCAR TABER, OF SALEM, OHIO.

IMPROVEMENT IN HARVESTER-DROPPERS.

Specification forming part of Letters Patent No. 86,602, dated February 2, 1869.

To all whom it may concern:

Be it known that I, J. OSCAR TABER, of Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Harvester-Droppers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a perspective view of a dropping-platform, taken from the rear inner corner. Fig. 2 is a side elevation of the same, showing the platform in its two positions; and Fig. 3 is a rear elevation of the sprocket-sheave or segment through which the dropper and cut-off are operated.

Similar letters of reference denote corresponding parts in all the figures.

My invention relates to an improved means for operating the dropping or dumping platform and cut-off; and consists in combining said devices in such manner that they may be simultaneously operated by a single lever, through the medium of a belt, cord, chain or chains, and a sprocket-wheel or segment, as hereinafter set forth.

In the annexed drawing, A represents a finger-bar of a harvester, and B the reel-post mounted thereon, or on the usual inner shoe, in any desired or usual manner. C is the platform, consisting in this instance of a number of slats, *c c*, arranged in lines parallel with each other and with the path of the machine, and connected at their forward ends to a bar, C', arranged behind the finger-bar, and hinged or pivoted thereto. D is a second post or upright, mounted upon the inner shoe or inner end of the finger-bar, in rear of the reel-post, as shown in the drawing, Fig. 1. Said post has secured to its upper end a plate or casting, E, provided with a tubular sleeve or bearing, E', in which is mounted the crank-wrist F of the cut-off rod F', in such manner as to turn freely therein. The outer end of said wrist or crank-arm F has mounted upon it a sprocket-wheel, or a segment, G, thereof, keyed or otherwise secured to wrist F, to cause it to turn therewith. H is a chain, belt, or cord, secured at one end to the platform, as shown in the drawing, and, passing over the sprocket-wheel or sheave G, is secured at its opposite or

forward end to a lever or treadle, within convenient position to be operated by the hand or foot of the driver while riding on his seat on the machine. Instead of the one chain shown and described, two short chains, cords, or straps may be used, if preferred, one connecting the platform and segment sheave or sprocket-wheel, the other connecting said wheel with the operating-lever.

The use of said secondary post D permits the independent adjustment of the reel-post when pivoted at its foot, as it frequently is, without disturbing the proper working relation of the cut-off F; and the post D may be pivoted and made adjustable, or the casting E may be made adjustable on said post, if desired, for adapting the cut-off F' to the varying condition of the grain. Ordinarily, however, such necessary adjustments of the relation of the cut-off to the cutters and platform can be effected by the adjustment of the chain or chains relative to the sprocket-wheel.

The operation is as follows: Supposing the machine to be at work, the platform receiving the grain as it is cut, said platform and the cut-off are sustained about in position represented in the red lines, Fig. 2, the cut-off being thrown back and upward out of the way of the falling grain. When a sufficient amount has accumulated to form a bundle the driver releases or draws back the operating-lever, when the weight of the platform and cut-off and of the grain upon the former causes the platform to drop upon the stubble, and the grain is caught thereby and held until the platform is drawn away from underneath it, leaving it deposited on the ground. At the same instant that the platform is dropped upon the stubble the cut-off F' is also thrown downward and forward until it assumes the proper position to receive and hold the falling grain, (see full black lines, Fig. 2,) until that upon the platform has been discharged, when, the platform being raised to receive another gavel, the cut-off is again thrown back out of the way, permitting the grain accumulated thereon to fall upon the platform.

It will be obvious that my improvements may be readily applied to any of the various reaping-machines, either rigid or hinged-bar, the supporting-standard D being mounted upon

any part of the machine where it is usual to mount the reel-post; also, that any usual construction of dropping-platform, or any of the usual arrangements of hand or foot lever, or mechanical devices for operating the dropping-platform, may be readily applied for operating the platform and cut-off herein shown and described.

Having now described my improvements, what I claim as new, and desire to secure by Letters Patent, is—

1. A sprocket-wheel, sheave, or segment thereof, in combination with a tilting or dropping platform, for the purpose set forth.

2. The use of a sprocket-wheel, or its equivalent, for operating the cut-off.

3. The combination of a sprocket-wheel, or its equivalent, with a dropping or dumping platform and cut-off, for operating the same.

4. The plate E, in combination with the secondary standard D, for supporting and adjusting the shaft of the cut-off and its actuating devices, as described.

5. The combination of the dropping-platform, cut-off, and actuating chain and sheave, in such manner that the position of the cut-off relative to the platform can be adjusted to suit the varying conditions of grain.

6. The combination of a cord, strap, or chain, or cords, straps, or chains, with a dropping or tilting platform and cut-off, for operating the same, substantially as described.

J. OSCAR TABER.

Witnesses:

M. F. TABER,
C. N. OWEN.