

(No Model.)

E. W. CLARK.
COTTON CHOPPER.

No. 369,316.

Patented Sept. 6, 1887.

Fig. 1.

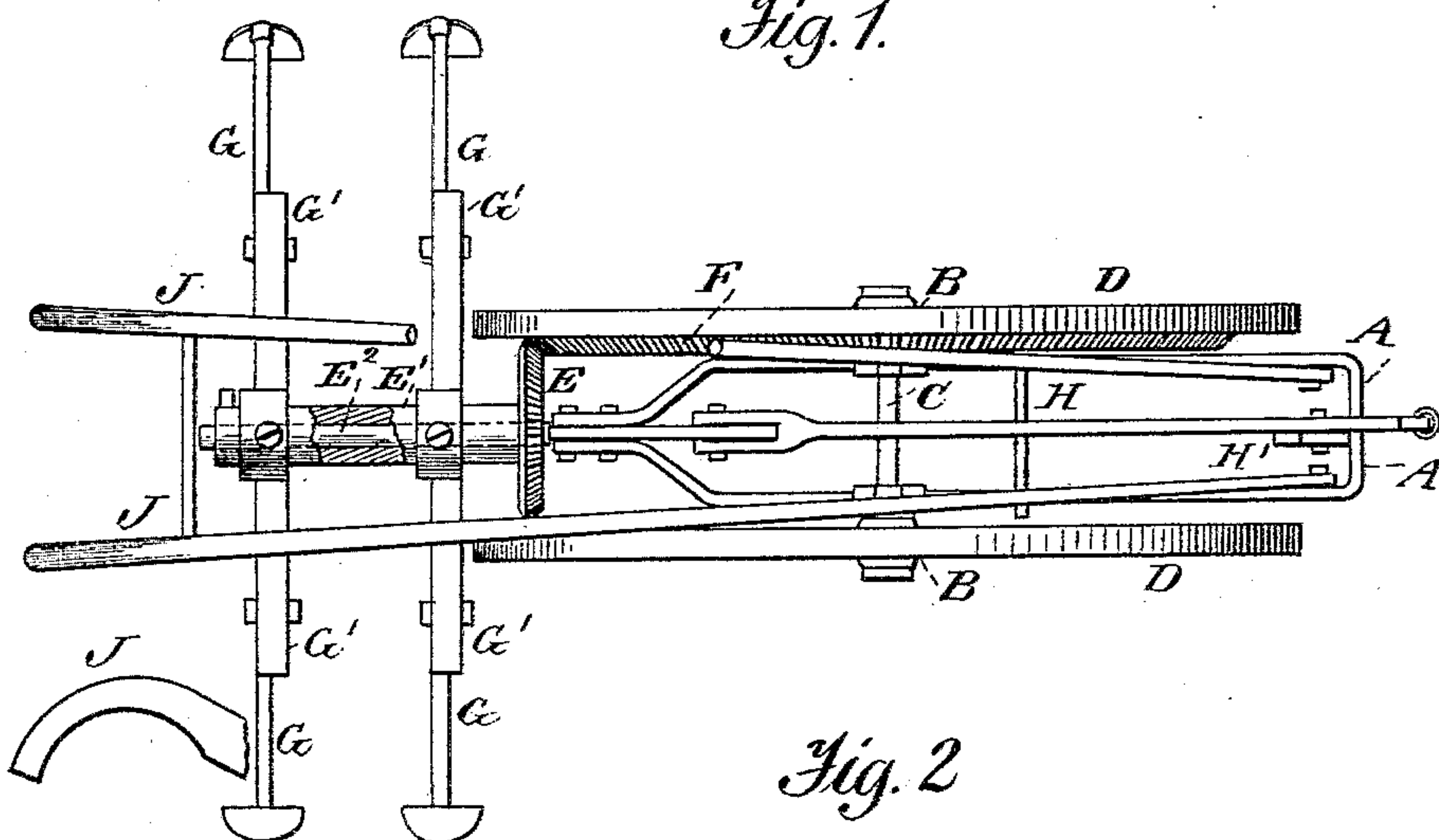


Fig. 2.

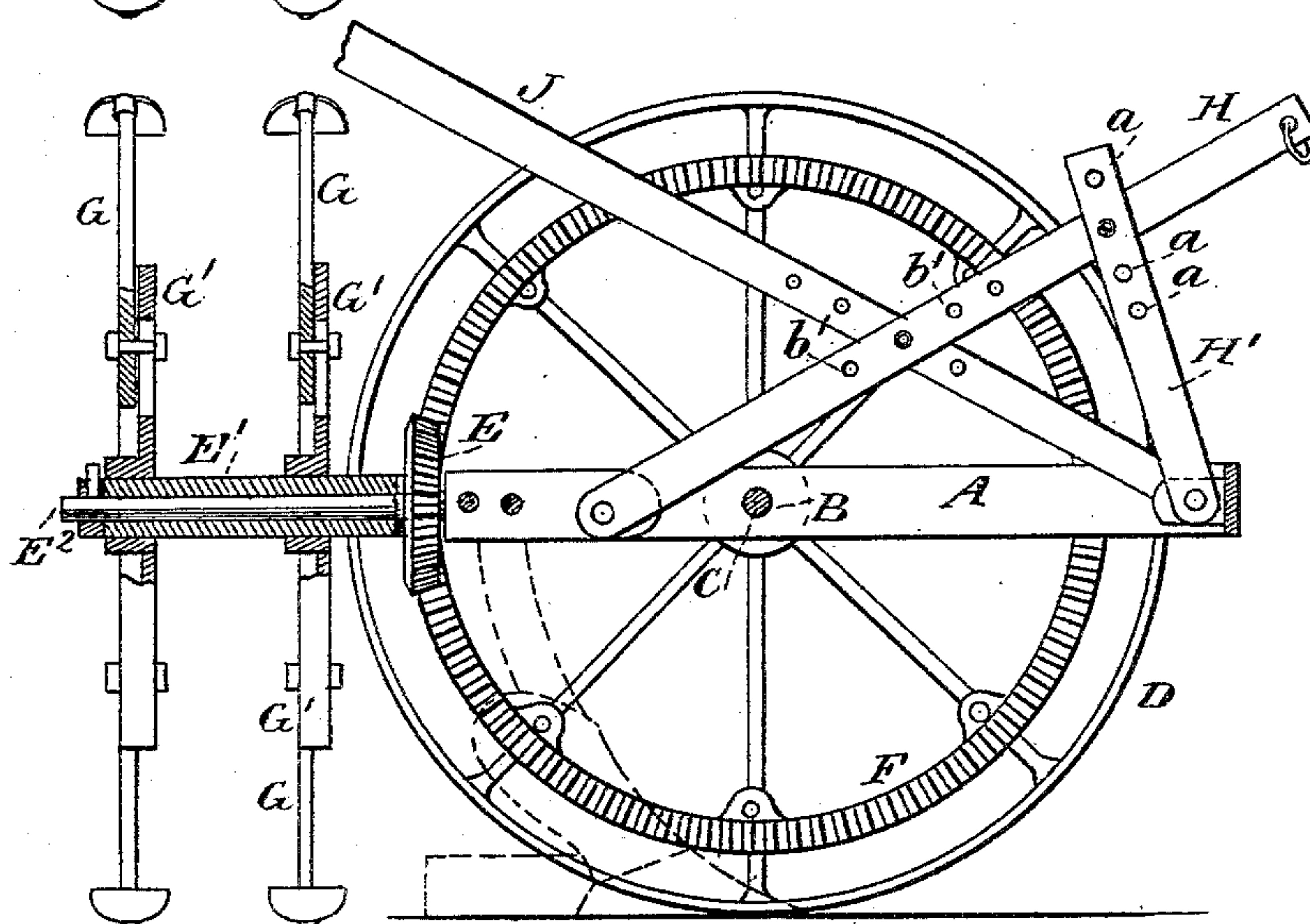
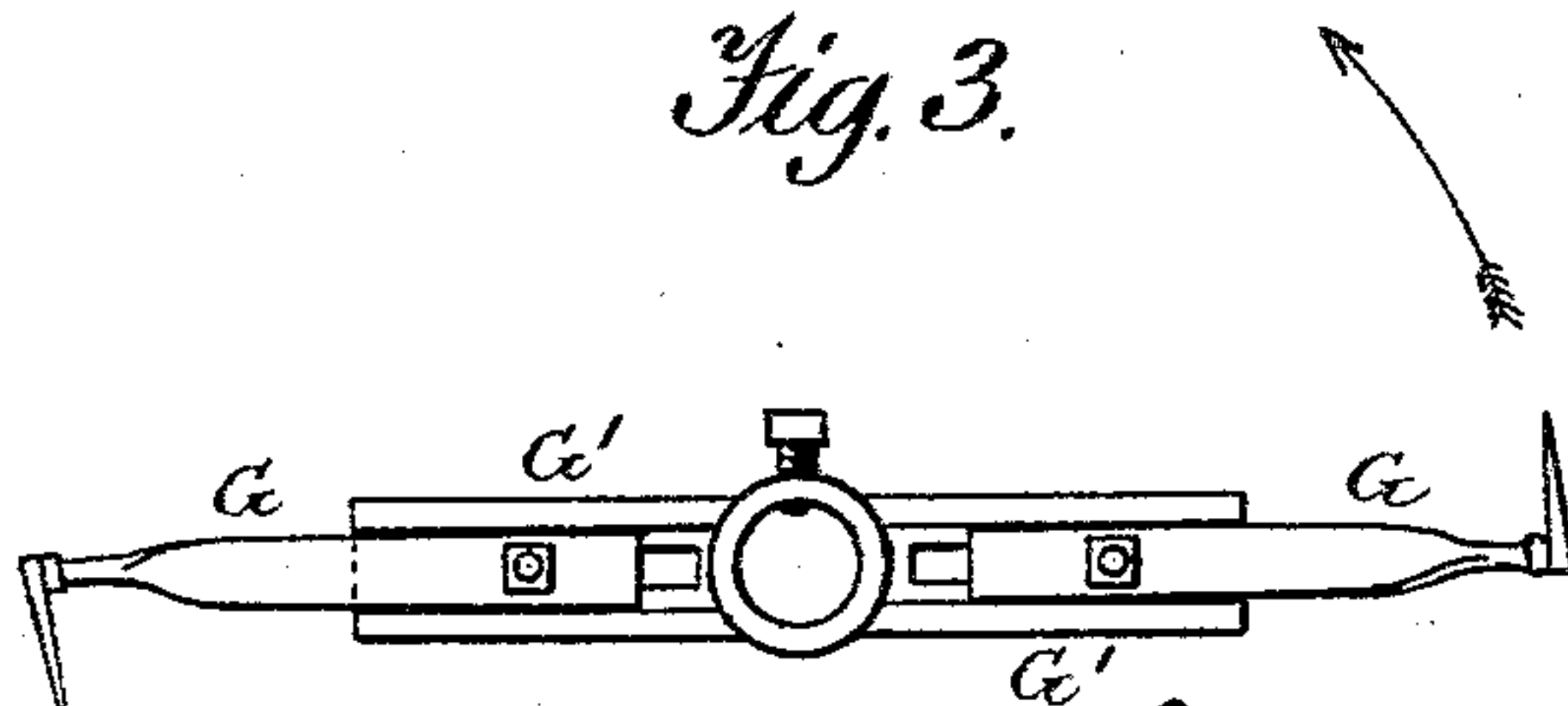


Fig. 3.



Witnesses.
A. Ruppert.
Alfred S. Sage.

Inventor:
Elisha W. Clark,
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His Attorney.

UNITED STATES PATENT OFFICE.

ELISHA WM. CLARK, OF SENTAFEEY, FLORIDA.

COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 369,316, dated September 6, 1887.

Application filed June 28, 1887. Serial No. 242,758. (No model.)

To all whom it may concern:

Be it known that I, ELISHA WM. CLARK, a citizen of the United States, residing at Sentafee, in the county of Alachua and State of Florida, have invented certain new and useful Improvements in Cotton-Choppers; 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 the letters and figures of reference marked thereon, which form a part of this specification.

In the accompanying drawings, Figure 1 is a top plan view of a cotton-chopper constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a detail, more particularly hereinafter referred to.

My invention relates to that class of devices which are known as "cotton-choppers;" and it has for its object to produce a device of this class which shall possess superior advantages in point of simplicity, durability, ease of operation and manipulation, and general efficiency.

To these ends, and to such others as the invention may relate, the same consists in the peculiar combinations, and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then specifically defined in the claims.

Referring now to the details of the drawings, A designates a frame of suitable construction, made preferably of a single piece of malleable iron and provided with bearings B B for the transverse axle C, carrying upon its outer ends the wheels D.

E is a beveled pinion mounted upon the end of the hollow shaft E', which is journaled upon the stationary shaft E². Rotary motion is imparted to the shaft E' by means of the engagement of the pinion E, mounted upon said shaft, with the beveled gear F upon the inner face of one of the wheels D.

G G are hoes which are adjustably secured to the arms G', secured to the hollow shaft E'.

H is the draft-bar, the rear end of which is bifurcated, as shown, and adapted to embrace

within this bifurcated end the front end of the stationary shaft E², to which it is pivotally attached. The rear ends of the iron composing the frame are bent inwardly and securely bolted to the shaft E² at a point intermediate of the beveled pinion E and the forward end of the shaft.

H' is an upright, pivoted at its lower end to the front end of the frame and provided at intervals of its length with holes a, which permit of the adjustment of the angle of the draft-bar by means of an adjusting-pin passed through one of the holes and through a corresponding hole in the draft-bar.

J J are the handles of the machine, which are pivotally connected to the front end of the frame A, and provided with holes b b, by means of which and the corresponding holes, b', in the draft-bar H the handles may be readily raised or lowered, as desired.

From the foregoing description it will be readily seen that the length of the hoe arms or handles may be regulated at will. The hoes may be readily detached or changed at will.

I have found it convenient at times to use a plow in connection with the machine, and in doing so I bolt the same to the forward end of the stationary shaft E², as I have indicated in dotted lines in Fig. 2 of the drawings. The plow may be used either in connection with or entirely independent of the hoes, as will be readily understood.

Having thus described my invention and set forth its merits, what I claim to be new, and desire to secure by Letters Patent, is—

1. In a cotton-chopper, the combination, with a frame, of a transverse main shaft or axle, drive-wheels journaled upon said shaft, one of the wheels being provided with beveled gearing, a hollow shaft carrying a series of adjustable hoes and a beveled pinion, and a draft-bar and handles each pivoted to the frame and adjustable upon each other, substantially as described.

2. In a cotton-chopper, the combination, with the frame and the main axle and driving-wheels, of the hollow shaft E', carrying the chopping-hoes and pinion E, the stationary shaft E², passed through said hollow shaft, and the draft-bar H, pivotally connected at its rear

end to the front end of said stationary shaft and adjustable upon the handles and the bar H, substantially as and for the purpose described.

- 5 3. In a cotton-chopper, the main axle and driving-wheels, a hollow shaft geared to said wheels and carrying chopper-arms, and a stationary shaft passed through said hollow shaft, in combination with the frame A, substantially rectangular in form and composed of a

single piece of malleable iron with its ends bent inwardly at the rear end of the frame and secured to the stationary shaft, substantially as described.

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

ELISHA WM. CLARK.

Witnesses:

I. R. HUBBARD,
J. P. McLANE.