

A. B. HUTCHINSON.
PLANING MACHINE.

No. 482,481.

Patented Sept. 13, 1892.

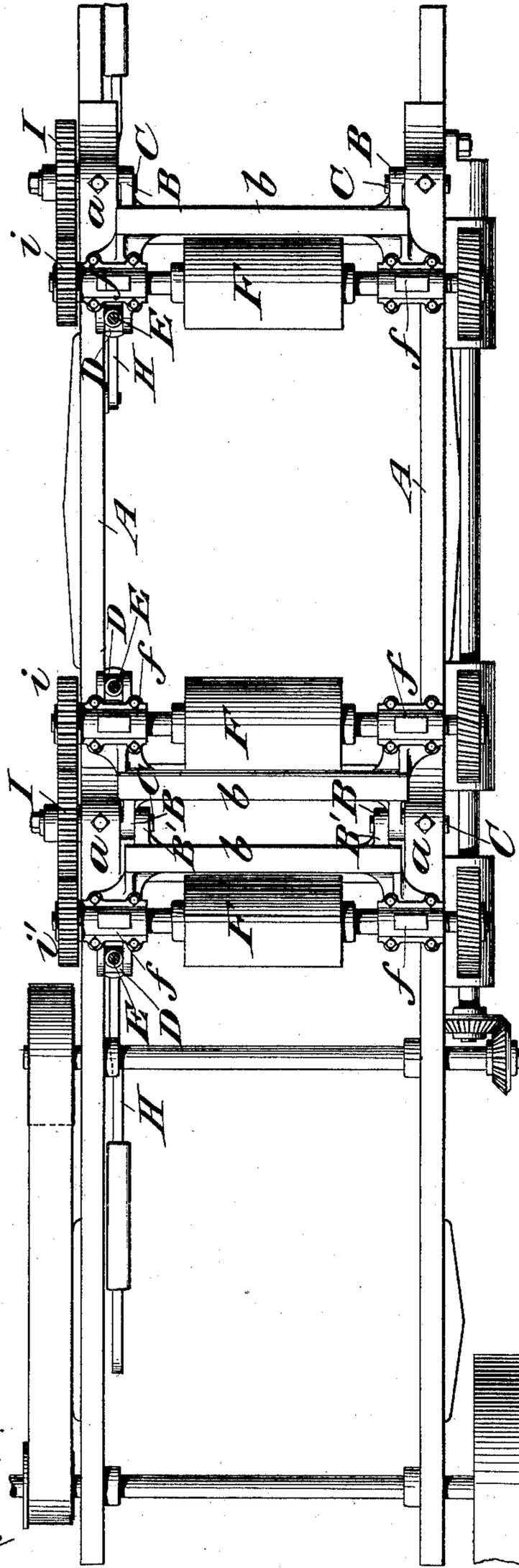


Fig. 1.

Witnesses:-
A. H. Hayward
C. Sundgren

Inventor:-
Alfred B. Hutchinson
 by attorneys
Brown & Seward

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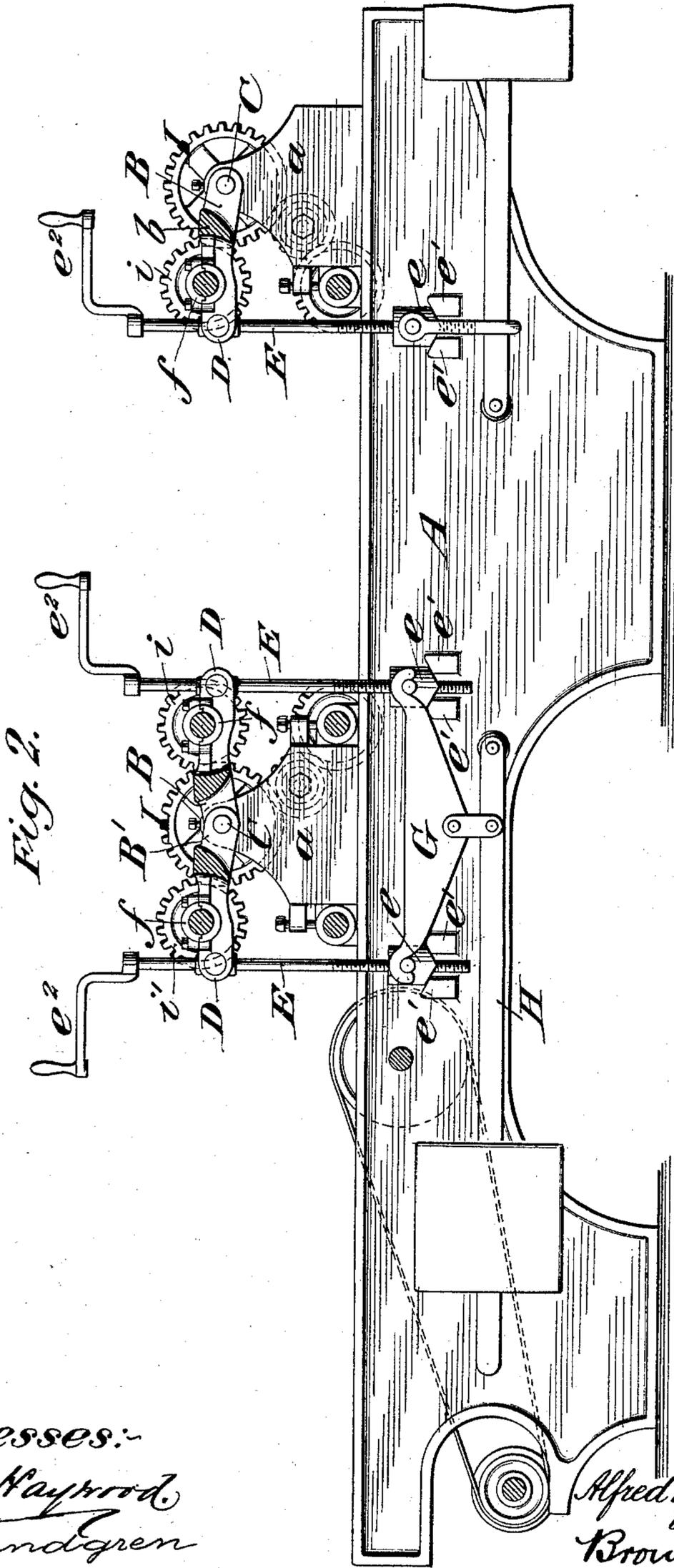


Fig. 2.

Witnesses:
A. N. Raymond
E. Sundgren

Inventor:
Alfred B. Hutchinson
by attorneys
Brown & Howard

UNITED STATES PATENT OFFICE.

ALFRED B. HUTCHINSON, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE
GLEN COVE MACHINE COMPANY, LIMITED, OF SAME PLACE.

PLANING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 482,481, dated September 13, 1892.

Application filed February 24, 1892. Serial No. 422,664. (No model.)

To all whom it may concern:

Be it known that I, ALFRED B. HUTCHINSON, of Brooklyn, in the county of Kings and State of New York, have invented a new and
5 useful Improvement in Planing-Machines, of which the following is a specification.

My invention relates to an improvement in planing-machines, and more particularly to the structure and arrangement of the parts
10 which comprise what is commonly known as the "parallel hoist" for feeding the lumber to the cutter.

The object is to simplify the structure and economize metal, and at the same time maintain the strength, durability, and effective-
15 ness of the parts.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

20 Figure 1 is a top plan view of portions of a planing-machine comprising the parts to which my invention relates, and Fig. 2 is a view of the same in longitudinal vertical section.

25 The bed-frame is represented by A, and from it arise standards *a* for the support of the frames in which the feed-rollers are journaled. The frames in which the feed-rollers are journaled consist of end arms B, connected by a tie or cross piece *b*, so located
30 with reference to the arms B that the latter project in opposite directions from the juncture of the tie *b* therewith. Where two roller-frames are to be supported between a pair of standards *a*, the arms B on the one are so opened apart as to permit the arms B' on the other to slip past, so as to bring their overlapping ends into position to receive a common stub-axle C, one at each end, extending
35 inwardly from the faces of the standards *a*. The opposite ends of the arms B and B' carry sockets D, pivotally secured thereto for the reception of the adjusting-rods E. The said arms are also provided exterior to the ties or
40 cross-pieces *b* with bearings *f* for the reception of the rollers F. The adjusting-rods E are swiveled in the sockets D and have a screw-threaded engagement near their lower ends with nuts *e*, beveled at their lower ends
45 and resting upon beveled seats *e'*, fixed to the

bed-frame. A yoke G connects the nuts *e*, and a weighted lever H tends to draw down on the yoke G, and thereby hold the rollers F down to their work. The adjustment of the rollers toward and away from the bed-frame
55 is effected by rotating the rods E in one direction or the other, a crank *e*² being provided for such purpose. The rise and fall of the adjusting-rods will swing the roller-carrying frames upon the axles C. A master-wheel
60 I, mounted in axial alignment with the axles C and driven by a suitable train of gear from the drive-wheel, will impart motion to the pinions *i* and *i'* on the axles of the rollers F, and the latter will be held in gear with the
65 master-wheel throughout the limit of their swinging movement. The short axles C, in connection with the frames which support the rollers, leave an open space between the standards *a* and materially lighten the framework
70 without sacrificing its strength and durability. The adjustment of the rollers is simple and accurate, and the means for communicating motion thereto is free from complications.

What I claim is—

1. The combination, with suitable supports,
75 of a pair of roller-carrying frames having their ends overlapped and pivotally secured to the supports, leaving a free space between the pivots and in the axial line thereof, sub-
80 stantially as set forth.

2. The combination, with suitable supports, of a roller-carrying frame pivotally secured at its ends to said supports, a master-wheel mounted in axial alignment with the pivots
85 which secure the roller-carrying frame, the feed-roller, and a pinion fixed to rotate therewith in engagement with the master-wheel, substantially as set forth.

3. The combination, with suitable supports,
90 of a roller-carrying frame pivotally secured at its ends to said supports, an adjusting-rod swiveled to the free end of said frame, a rocking nut engaged with said rod, and a weight connected with said nut, substantially as set
95 forth.

ALFRED B. HUTCHINSON.

Witnesses:

FREDK. HAYNES,
GEORGE BARRY.