

(No Model.)

2 Sheets—Sheet 1.

J. SCHUSTER.

MACHINE FOR POLISHING GLASS PANES.

No. 359,744.

Patented Mar. 22, 1887.

fig:1.

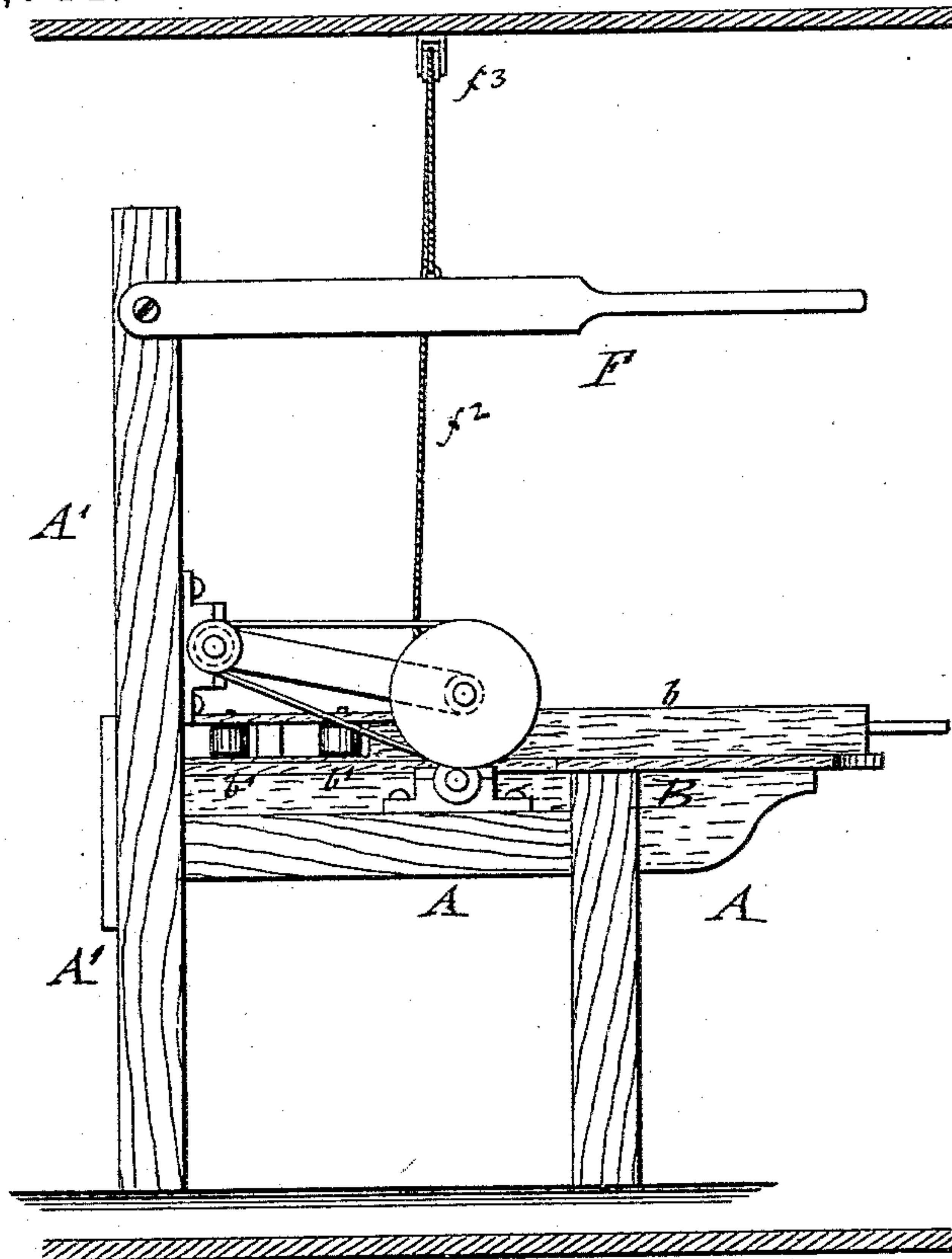
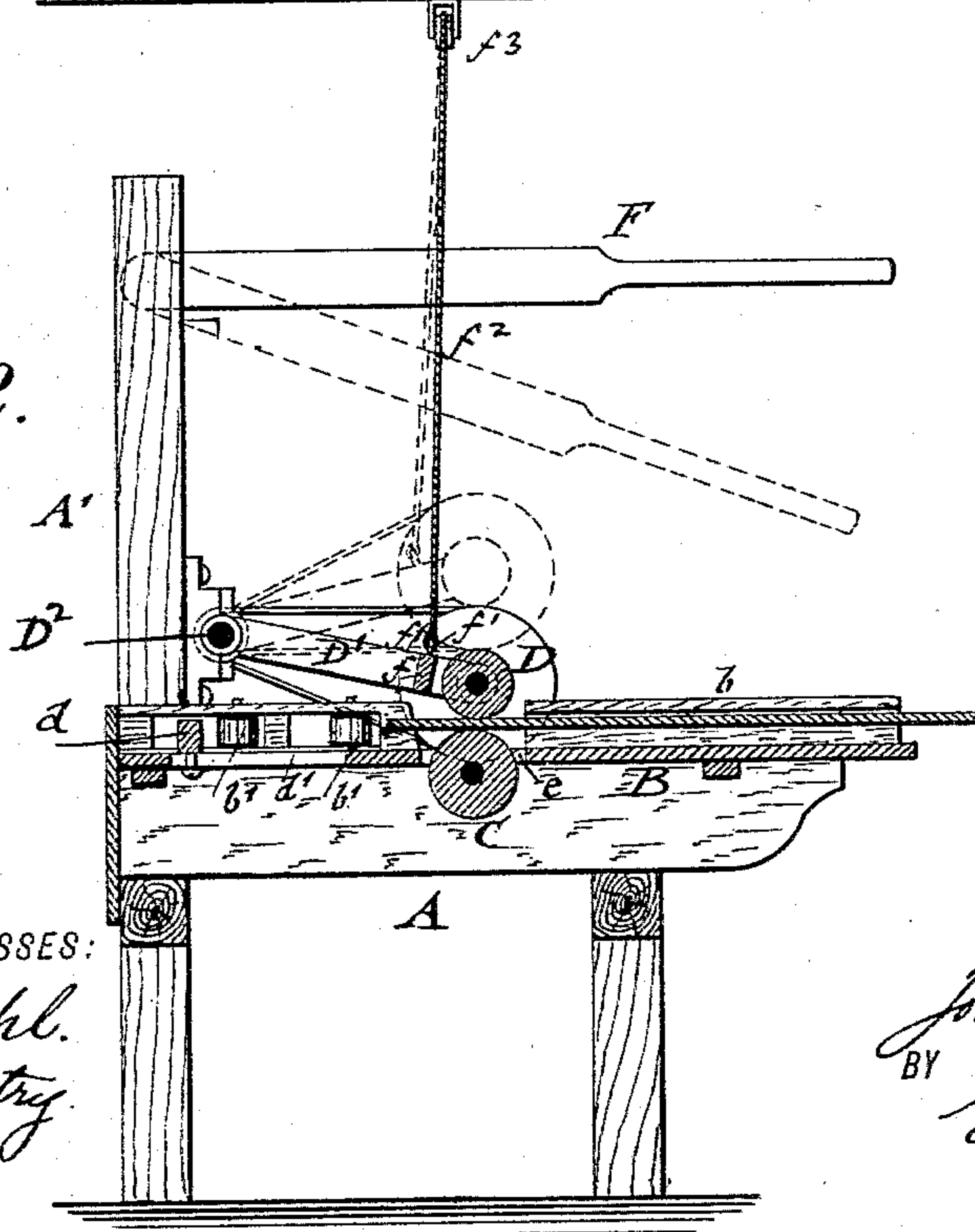


fig:2.



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Fig. 3.

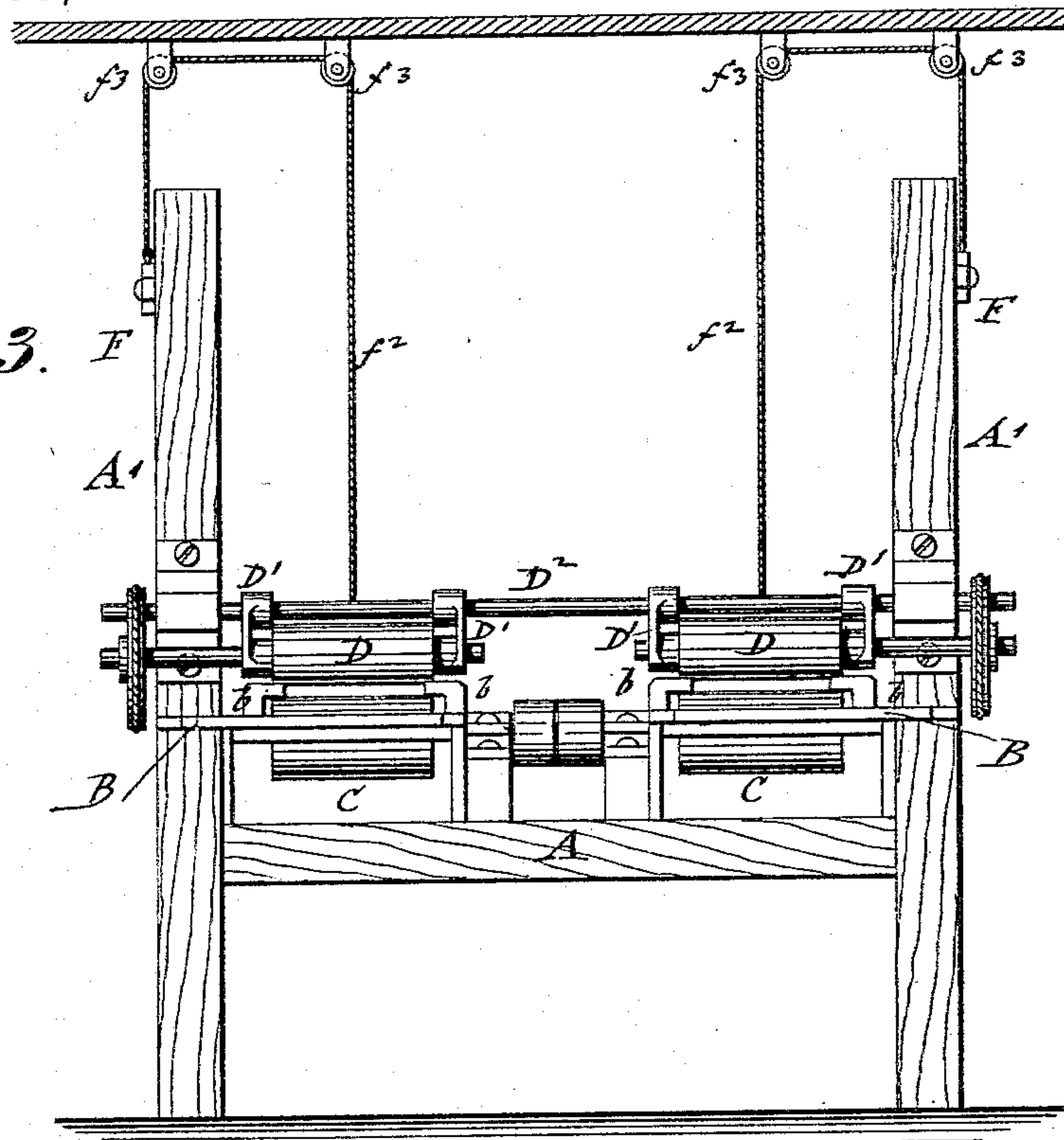
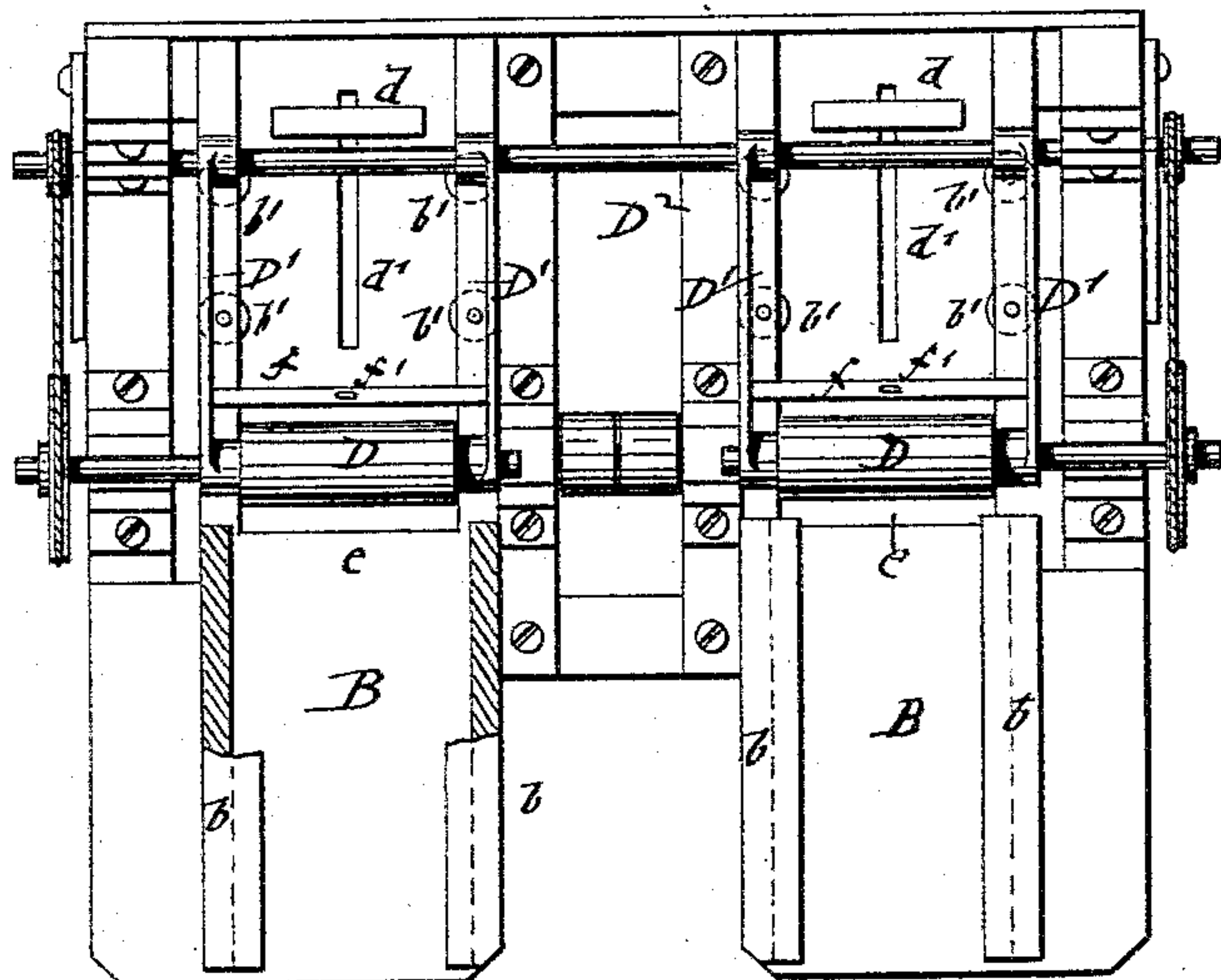


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN SCHUSTER, OF BROOKLYN, NEW YORK.

MACHINE FOR POLISHING GLASS PANES.

SPECIFICATION forming part of Letters Patent No. 359,744, dated March 22, 1887.

Application filed June 19, 1886. Serial No. 205,623. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHUSTER, of Brooklyn, county of Kings, and State of New York, have invented certain new and useful
5 Improvements in Machines for Polishing Glass Panes, of which the following is a specification.

This invention relates to an improved machine for polishing glass panes in a quick,
10 uniform, and effective manner; and the invention consists of the combination of a table provided with means for guiding and stopping the glass panes, a rotary polishing-roller, a rotary feed-roller, and a hinged frame
15 for supporting said feed-roller and lifting it whenever its motion is to be interrupted.

In the accompanying drawings, Figure 1 represents a side elevation of my improved machine for polishing glass panes. Fig. 2 is
20 a vertical longitudinal section of the same; Fig. 3, a front elevation; and Fig. 4, a plan, a part being broken away.

Similar letters of reference indicate corresponding parts.

25 A in the drawings represents the supporting-frame of my improved machine for polishing glass panes so as to remove the adhering impurities and prepare them for a silvering composition. The frame A supports
30 one or more tables, B, which are provided at both sides with longitudinal guides *b b* for the panes, and at the rear part with loosely-turning vertical guide-rollers *b'* and a transverse stop, *d*, that is adjusted on a longitudinal slot,
35 *d'*, of the table B.

At the middle part of the table B is arranged a transverse opening, *e*, in which is located a quickly-rotating polishing-roller,
40 C, that is covered with suitable buffing material, to which tripoli or other polishing material is applied. The shaft of the polishing-roller C is supported in bearings of the supporting-frame A and quickly rotated by a
45 suitable belt-and-pulley transmission from the driving-shaft.

Above the polishing-roller C is arranged a feed-roller, D, that turns in bearings of a frame, D', which frame is hinged to a transverse shaft, D², that turns in bearings of the
50 supporting-frame A. The hinged frame D' is provided back of the feed-roller D with a transverse brace, *f*, which is connected by an eye, *f'*, to a suspension-rope, *f*², that passes over pulleys *f*³ at the ceiling to a lever, F,

that is pivoted to one of the upright main 55 posts A' of the supporting-frame A, as shown in Figs. 1 and 2. The lever F facilitates the lifting or lowering of the feed-roller D and its frame D' as required by the work. By lowering the lever F the feed-roller is lifted 60 and the feed motion interrupted, while by raising it the feed-roller is lowered by its own weight, and a slow motion is imparted to the feed-roller D by the belt-and-pulley transmission from the shaft D² to the shaft of the feed- 65 roller, as shown in Figs. 1 and 3, so that the glass panes are slowly moved forward by the pressure of the feed-roller on their upper surface, while simultaneously the quickly-rotat- 70 ing polishing-roller C acts on the under surface of the glass pane and cleans the same of adhering dirt and impurities. When the glass pane arrives at the rear part of the table, it is guided by the rollers *b' b'* until it abuts against the stop, which is adjusted to 75 the proper length of the plate. When the plate arrives at the stop, the feed-roller is lifted, the plate removed, and a new plate inserted, and so on. The work is thus accomplished in a quick and effective manner with- 80 out requiring specially skilled labor for the polishing operation.

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

1. The combination, with a guide-table, of 85 a rotary polishing-roller that is supported in a recess of said table, a rotary feed-roller above the same, a hinged frame for supporting said feed-roller, and a lever mechanism for raising or lowering said feed-roller, sub- 90 stantially as set forth.

2. The combination of a guide-table having guideways and rollers, a transverse gage at the rear part, a rotary polishing-roller located in a recess of the table, a rotary feed- 95 roller, a hinged frame supporting the feed-roller above the polishing-roller, a suspension-cord for said hinged frame, and a lever for raising or lowering the feed-roller, substantially as set forth. 100

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOHN SCHUSTER.

Witnesses:

PAUL GOEPEL,
MARTIN PETRY.