

W. F. WOLF.
Molding-Machines.

No. 154,434.

Patented Aug. 25, 1874.

Fig. 1

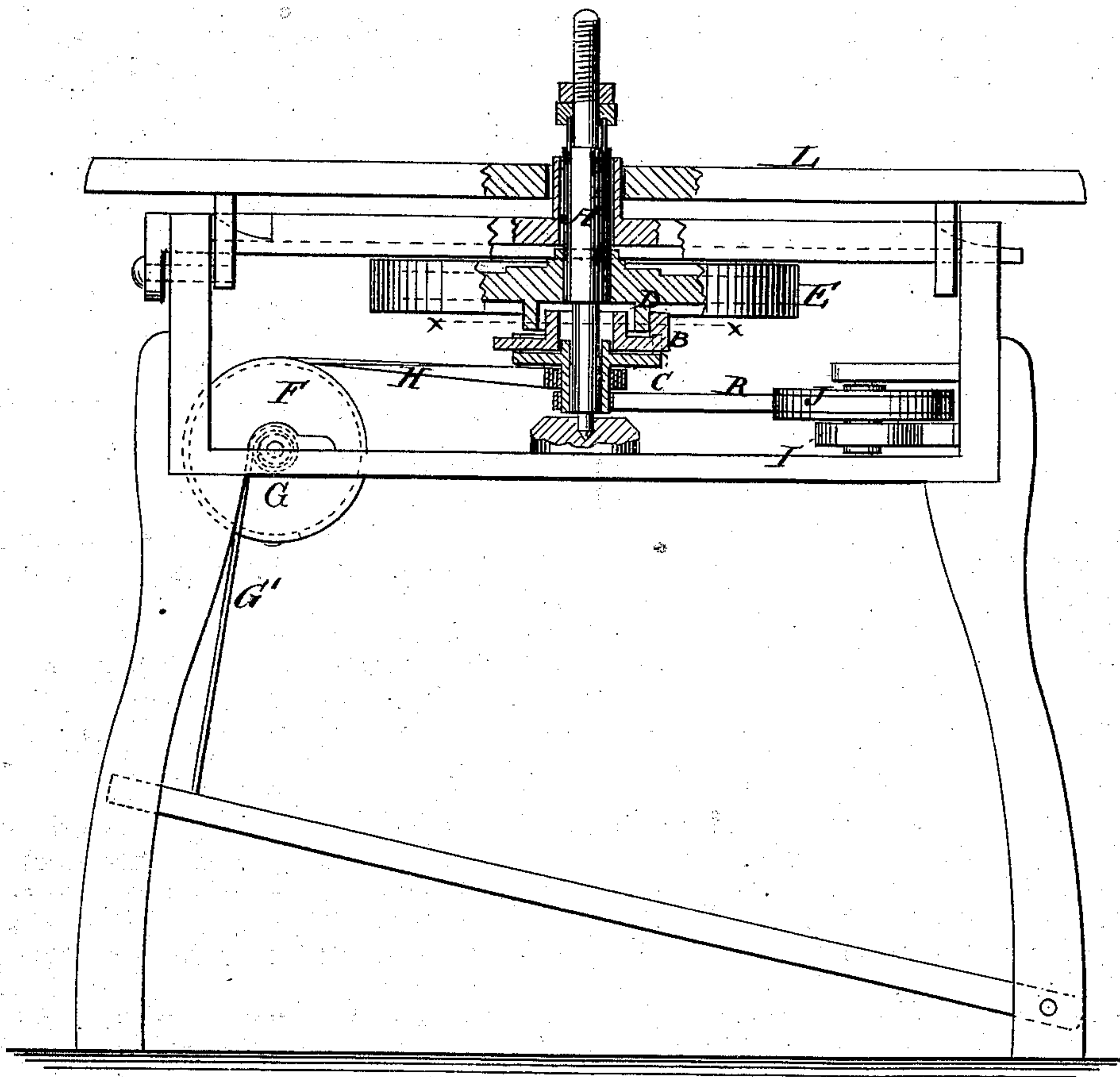
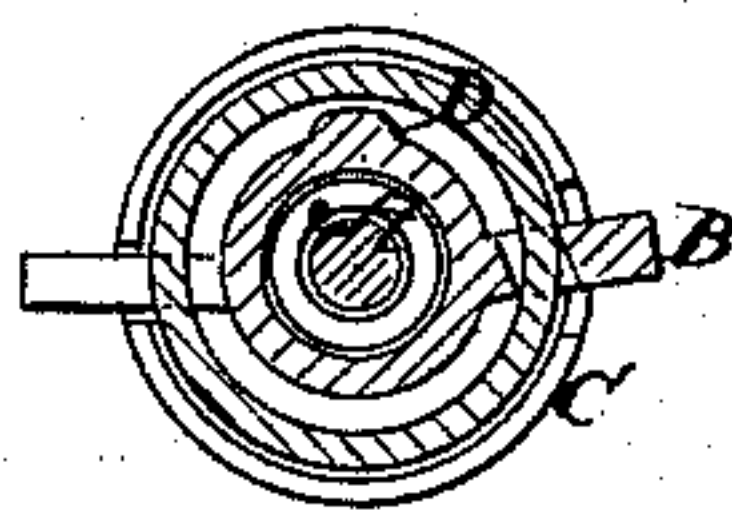


Fig. 2



WITNESSES:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM F. WOLF, OF HOLLIDAYSBURG, PENNSYLVANIA.

IMPROVEMENT IN MOLDING-MACHINES.

Specification forming part of Letters Patent No. **154,434**, dated August 25, 1874; application filed June 6, 1874.

To all whom it may concern:

Be it known that I, WILLIAM F. WOLF, of Hollidaysburg, in the county of Blair and State of Pennsylvania, have invented a new and Improved Molding-Machine, of which the following is a specification:

The invention relates to an improvement in the means of connection between the treadle and the flanged balance-wheel that is fixed horizontally on the bit-stock or mandrel to which the molding-cutter is attached.

The construction and arrangement of parts will be first generally described, and the precise feature of novelty then pointed out in the claim.

Figure 1 is a longitudinal sectional elevation of my improved machine, and Fig. 2 is a horizontal section taken on the line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the mandrel of a molding or tonguing-and-grooving cutter, on the lower part of which is a gripping-clutch, B, which is carried forward or backward by the flanged pulley C, for turning the mandrel continuously in one direction by gripping the flange D of the balance-wheel E when it goes forward, and letting it go when it moves backward. This gripping action is effected by the form of the clutch B, which is a tube with radial arms, and has two exterior projections, one wedge-shaped or triangular for engaging the notched inner side of flange

D when the clutch moves in one direction, but not when moving oppositely, and the other projection, which is round or smooth, serving to hold the clutch in position to cause the engagement referred to. F is a foot-treadle, and G, a multiplying-pulley for turning the pawl-pulley forward by the belts G' and H. I is a coiled spring; J, a pulley, and K a belt for turning the clutch-pulley backward.

The table L for holding the work is made adjustable vertically, as in other molding-machines, to adjust different kinds of work to the cutter, and it will be provided with a work-guide by which to guide the work along.

I am aware of the patents of J. B. Bollinger, August 24, 1869, No. 93,955, and March 18, 1873, No. 136,810, for mechanical powers, and hereby disclaim the same.

I do not claim the combination of a foot-treadle, spring-pulley, and balance-wheel in a power-machine; but

I claim—

In the molding-machine herein described, the tubular clutch B, having the projections specified, the horizontal balance-wheel E, provided with the circular flange D, the bit-stock A, and apparatus for operating the clutch, all combined, constructed, and arranged as set forth.

WILLIAM FRANCIS WOLF.

Witnesses:

PETER YOUNG,
ADAM J. WOLF.