

J. MILLER.
Planing-Machines.

No. 142,495.

Patented September 2, 1873.

Fig: 1

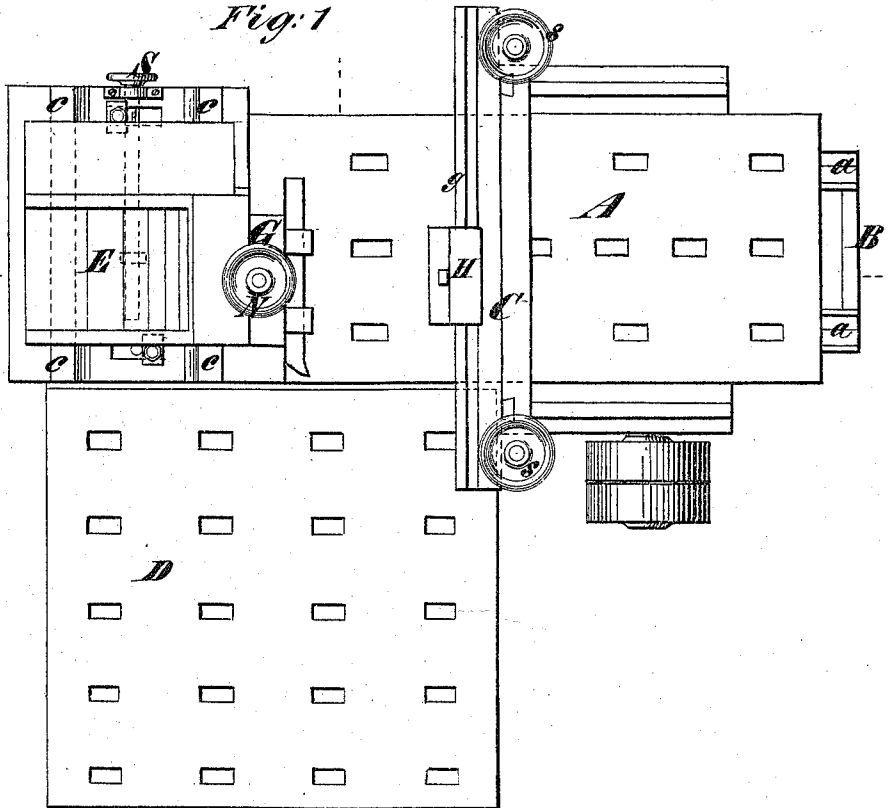
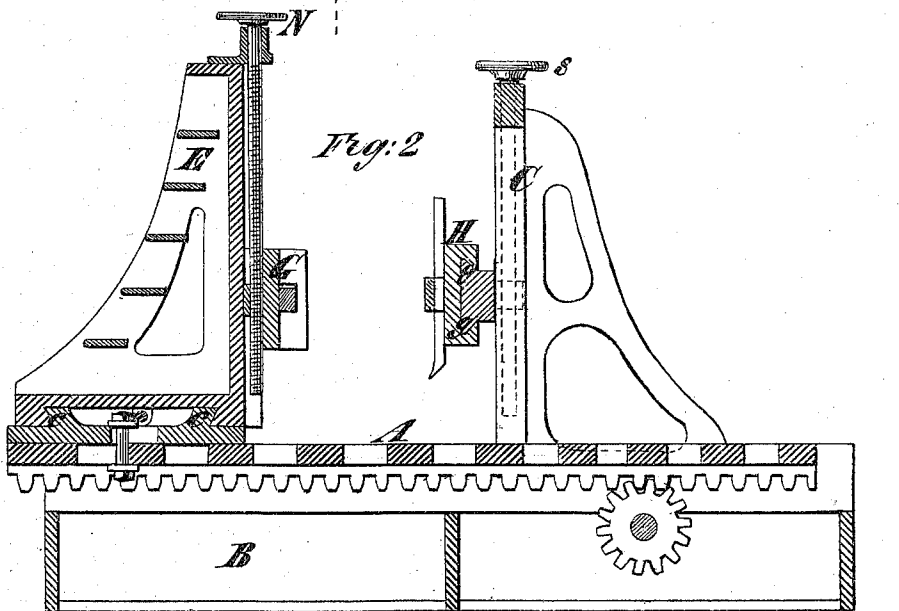


Fig: 2



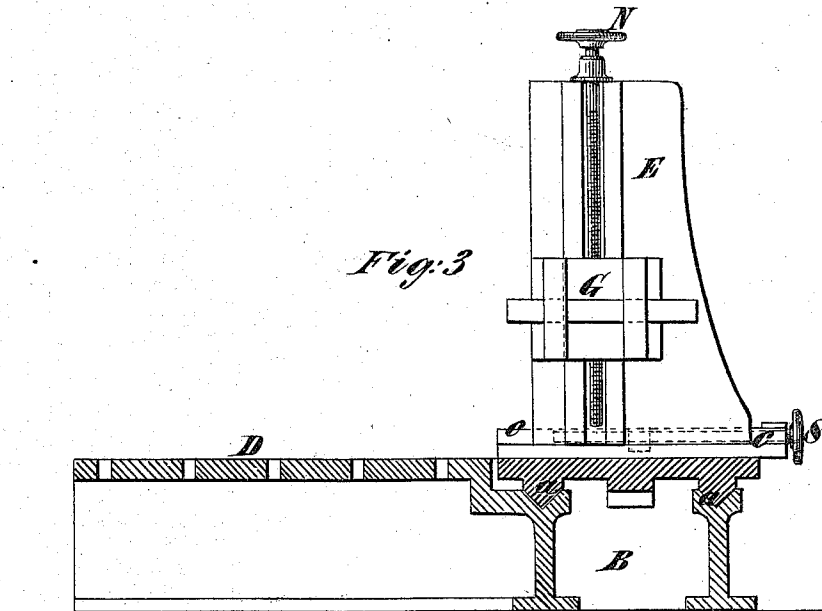
Witnesses:
Michael Ryan,
Notary

James Miller
By
Brown & Allen

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Witnesses:
Michael Ryand
Frederick Harnes

James Miller
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

JAMES MILLER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS RIGHT
TO CORNELIUS H. DELAMATER, OF SAME PLACE.

IMPROVEMENT IN PLANING-MACHINES.

Specification forming part of Letters Patent No. 142,495, dated September 2, 1873; application filed
August 4, 1873.

To all whom it may concern:

Be it known that I, JAMES MILLER, of the city, county, and State of New York, have invented an Improvement in Machines for Planing Metals, of which the following is a specification:

This invention consists in the combination, with a planing-machine, of a stationary work-bed, arranged in proximity to its shears, and a tool-holder erected on that end of the traveling work-bed which is opposite the stationary work-bed, whereby articles of too great bulk to pass under the tool-holder of the traveling work-bed, or too heavy to be carried by the latter, may be arranged on this stationary work-bed to be planed by the tool-holder carried by the traveling work-bed.

In the accompanying drawing, Figure 1 is a plan of a planing-machine having my improvement applied. Fig. 2 is a vertical section of the same taken longitudinally to the traveling work-bed, and Fig. 3 is a section thereof taken transversely to the traveling work-bed.

Similar letters of reference indicate corresponding parts in the several figures.

A represents the traveling work-table. It travels back and forth on shears *a a* on a base-frame, B, and motion is imparted to it by means of a pinion working into a rack arranged on its bottom. The tool-holder H, that works in conjunction with this traveling bed, is situated on a stationary frame, C, which is supported on the base-frame B, and straddles the bed in the usual manner. It is raised and lowered to adapt it to the work by means of screws *s s*, and provision is made for moving the tool-holder laterally on shears *g g*,

which it traverses. In proximity to one of the shears of the traveling work-bed, near the end which is farthest from the tool-holder H, just described, there is arranged a stationary work-bed, D. On the adjacent end of the traveling bed there is an upright frame, E, which carries a tool-holder, G, for operating on work situated on the stationary work-bed. This frame E is arranged on transverse ways *c c* on the traveling work-bed, and thus it is enabled to move toward and from the stationary work-bed to bring the tool into contact with the article to be planed. The shifting of the frame is effected by means of a screw, S. On the side of this frame, opposite the stationary tool-holder H, there are vertically-extending ways, on which the tool-holder G moves up and down to accommodate it to the article to be operated on. It is shifted by means of a screw, N.

Any work that is too bulky to pass under the tool-holder H with the traveling work-bed is arranged on the stationary work-bed, and is then planed by the tool carried by the traveling bed. Thus great convenience is afforded in the same machine for both light and bulky work.

What I claim as my invention is—

The combination, with a planing-machine, of the stationary work-bed D, arranged in proximity to the shears of the traveling bed, and the tool-holder L, carried by said traveling bed, substantially as and for the purpose herein set forth.

JAMES MILLER.

Witnesses:

FRED. HAYNES,
MICHAEL RYAN.