

B. J. Mott,

Planing Wood.

No. 106,856.

Patented Aug. 30, 1870.

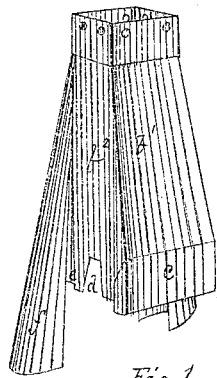


Fig. 1.

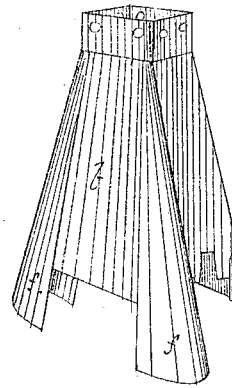


Fig. 2.

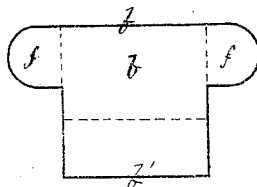


Fig. 4.

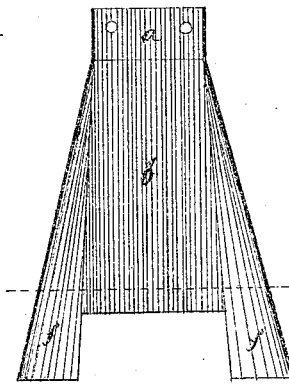


Fig. 3.

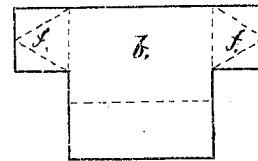


Fig. 5.

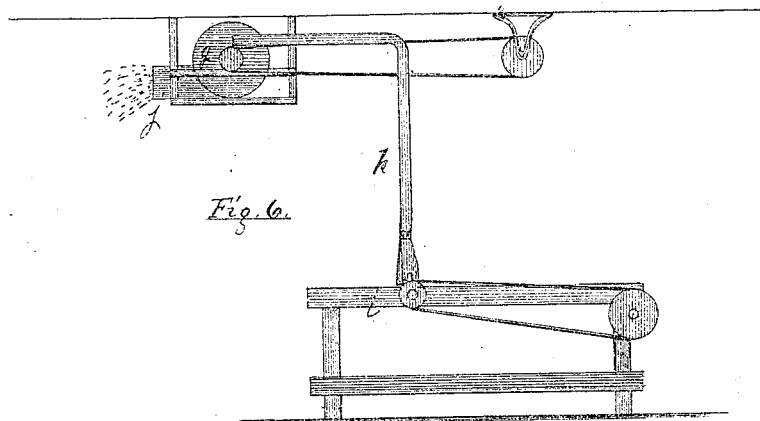


Fig. 6.

Witnesses.

Richard W. Reille.
Charles L. Reille

Inventor.

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BARKER D. MOTT, OF GREEN ISLAND, ASSIGNOR TO HIMSELF AND HARCOURT MOTT, OF TROY, NEW YORK.

Letters Patent No. 106,856, dated August 30, 1870.

IMPROVEMENT IN HOOD FOR PLANING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same

I, BARKER D. MOTT, of the village of Green Island, Albany county, State of New York, have invented a new and improved Mouth-Piece or Hood for "Planing or Matching-machine Dusters," of which the following is a specification.

The nature of my invention consists in the construction of a peculiar-shaped mouth-piece, hood, or the equivalent thereof, to be used and placed at the ingress end of the spout or pipe at present used, or any equivalent thereto, that may be used in connection with a rotary exhaust-bellows, forming what is styled a planing or matching-machine duster, the said machine or apparatus being already patented.

The hood or mouth-piece above-mentioned is secured to the pipe or tube of the duster, and its object is to facilitate the passage of particles of dust, shavings, &c., and the said hood or mouth-piece is so formed or constructed as to fit closely around the several parts of the planing or matching-machine where necessary to control the ascent of the dust, shavings, &c., and is also so formed and constructed as to render their ascent easier and quicker than heretofore, there being no obstructions in the way.

Description of the Accompanying Drawing.

Figure 1 is a perspective view, showing the front and one side of the hood or mouth-piece.

Figure 2 is a perspective view, showing the back and one side of the same.

Figure 3 is a vertical section on the line A B, fig. 4.

Figure 4 is a horizontal section on the line C D, fig. 3.

Figure 5 is a horizontal section on the line C D, fig. 3.

Figure 6 is a side elevation, showing a machine with the duster, rotary bellows, &c., and showing the position of the hood or mouth-piece when in use.

General Description.

a represents the upper part or neck of the hood, and is shaped so as to fit either outside or inside of the duster-pipe. I prefer fitting it outside, as offering less obstruction to ascending particles. This neck *a* is riveted, bolted, or otherwise fastened to the duster-pipe. Below this neck *a* the hood expands, the hori-

zontal section square, as shown, or it may be, in some cases, more convenient made circular.

The interior is marked *b*.

The front, *b'*, at *c*, bends horizontally.

b'' are the sides, having pieces taken out at *d* and *e*, as shown in figs. 1 and 2, to fit the machinery when the hood is in use.

At *f* are shown gussets projecting from the rear angles, their purpose being also to fit over portions of the machinery for planing or matching, so as to catch all the particles of dust, &c., so that all may be drawn up and away from the machine. These gussets *f* may be formed either sectionally round, square, or triangular. A round form is shown in fig. 4, a square form in fig. 5, and in the same figure, by dotted lines, is shown a triangular form.

The lower part of the said hood is wider than the neck, and the gussets spread still wider, the whole being arranged, formed, and constructed as to suit the machinery for which it is adapted and used.

In fig. 6, *g* represents the rotary bellows used to exhaust the air.

h is the pipe, tube, or its equivalent, connecting the bellows with the machine *i* below. The particles, dust, shavings, &c., are drawn up by the rush of air through the pipe *h*, and thrown out at *j*. The mouth-piece or hood is shown at the lower end of the pipe *h*.

The bellows *g* and pipe *h*, forming what is called the duster, being the subject of a former patent, I have no claim therefor, my invention being the hood or mouth-piece only. A hood has been used before, but of entirely different construction, and was found insufficient and useless for the purpose. A gusset may be used on one side only, and none on the other, when required to suit some peculiar style of machine.

What I claim as my invention is—

A hood or mouth-piece for planing or matching-machines, when constructed substantially in the manner and for the purpose as herein described and set forth.

BARKER D. MOTT.

Witnesses:

RICHARD H. REILLE,
ANGELIA S. REILLE.