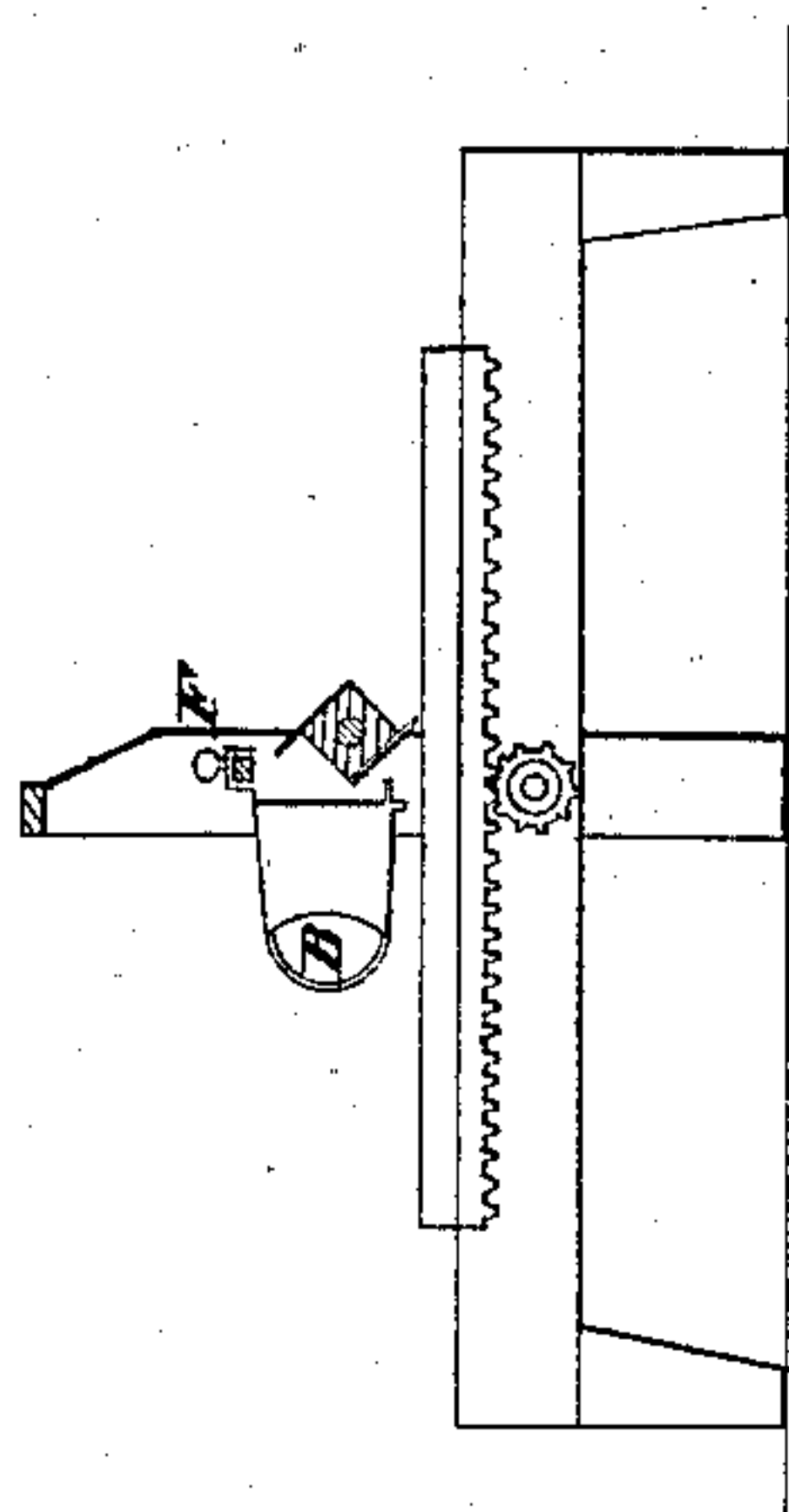


*D. R. Miller,*  
*Wood Plane Attachment.*

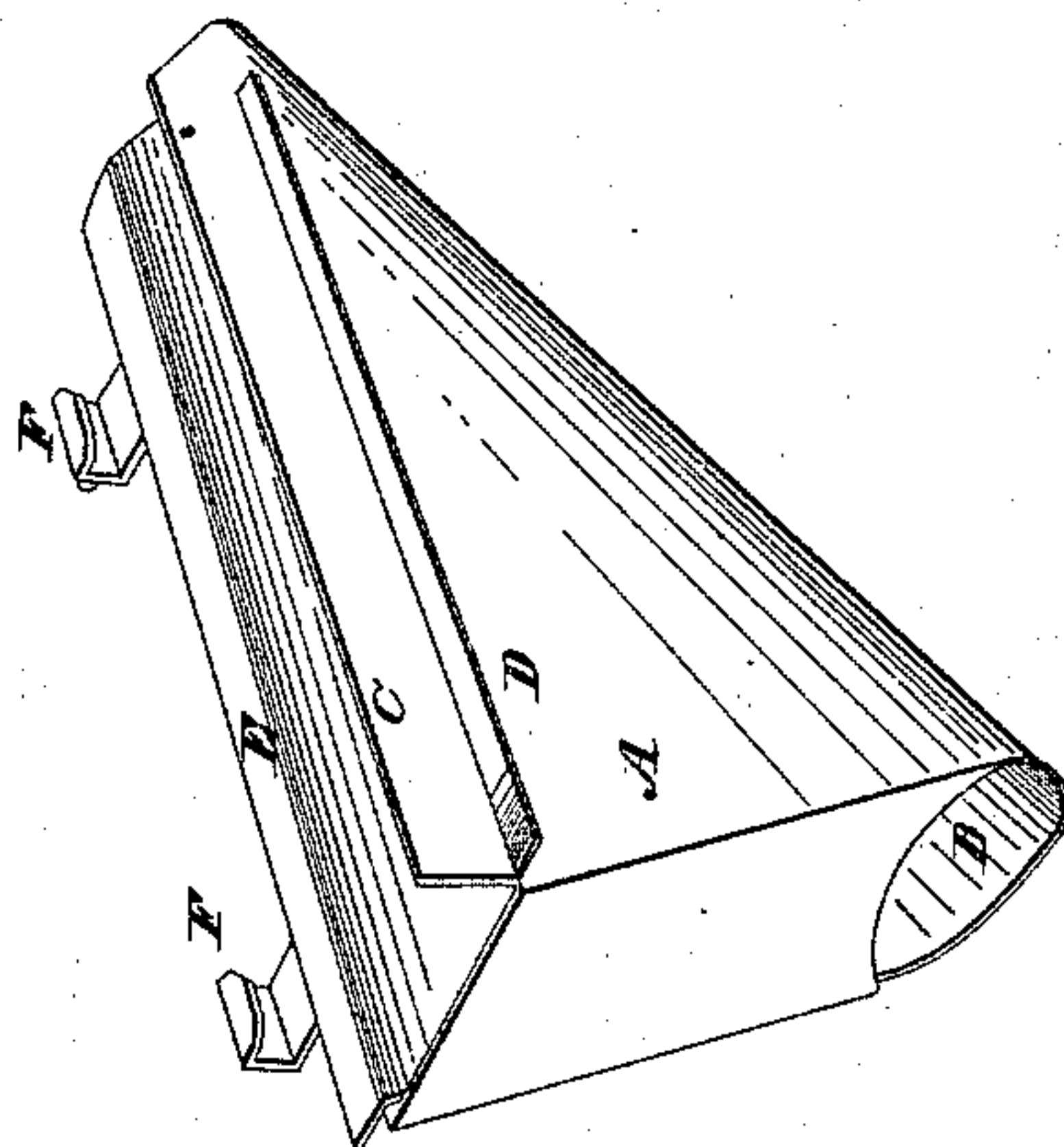
*N<sup>o</sup> 58,456.*

*Patented Oct. 2, 1866.*

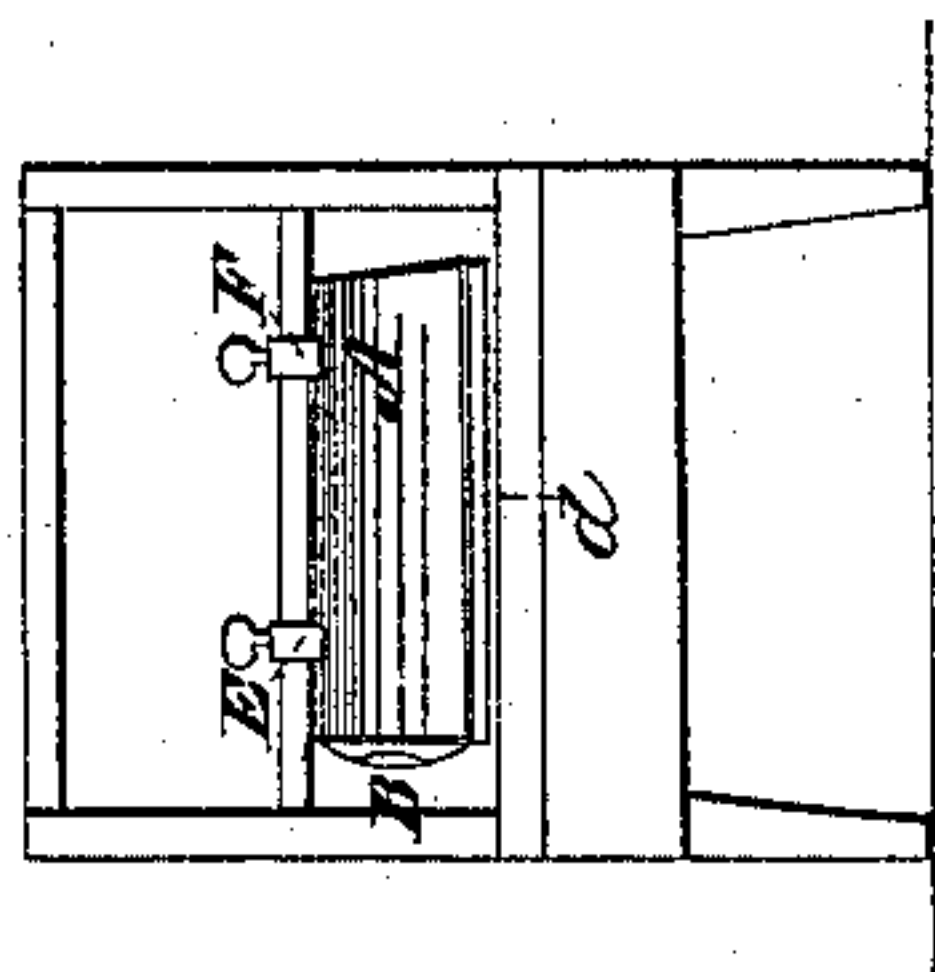
*Fig. 3.*



*Fig. 1.*



*Fig. 2.*



*Witnesses:*  
*Charles Alexander*  
*A. A. Yeatman.*

*Inventor:*  
*David, R. Miller.*  
*per*  
*Alexander D. Mason.*  
*Attorney.*

# UNITED STATES PATENT OFFICE.

DAVID R. MILLER, OF HARRISBURG, PENNSYLVANIA.

IMPROVEMENT IN DUST AND SHAVING CONVEYERS FOR PLANING AND SAWING MACHINES.

Specification forming part of Letters Patent No. 58,456, dated October 2, 1866.

*To all whom it may concern:*

Be it known that I, DAVID R. MILLER, of Harrisburg, Dauphin county, and State of Pennsylvania, have invented certain new and useful Improvements in Shaving-Conveyers for Planing or Surfacing Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, A represents the conveyer, which consists of a box formed either of wood or of metal, the sides of said box being triangular, the front open, the back curved, and the end at the base of the triangular sides closed partially, leaving an opening, B, through which the shavings pass from the conveyer. The lower or under side of the conveyer has an extension, C, and a flange, D. The upper side is provided with a flange, E, which said flange is provided with two hooks, F F.

In using this conveyer, the hooks F are caught upon a horizontal bar, which passes between the uprights on each side of the cutter-shaft, and there secured by means of thumb-screws or otherwise. The flange or extension C passes close up to the knives, and the flange D rests upon the roller or bar which holds the stuff to be planed upon the bed.

Figure 2 of the annexed drawings shows an end view of the conveyer as attached to the planing-machine of Messrs. Grey and Wood, (patented,) the knives of said machine not being thereon shown. In Fig. 3 a side view of the machine is shown with the conveyer attached, showing the manner of attachment to the horizontal beam, and with the knives in the rear.

Without the use of this conveyer the shavings fall directly upon the bed of the planer, and are a source of annoyance to the operator, while with the use of my invention the shavings are carried to one side.

This conveyer may be made with a straight back instead of the curved; but the curved back is preferred by me.

It will thus be seen that the conveyer stands or lies in front of the knives in such a position that the shavings, as they are cut from the stuff, fly into it, strike its inclined and curved back, and are carried out through the opening B by the force with which they strike the inclination of the back, and the air-current formed by the velocity of the knives as they revolve in cutting. I convey the shavings in this case only to one side. I may convey them to either side, or to both at a time, by a little different formation of the conveyer, which may be duplicated.

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

The conveyer A, made of metal or wood, provided with the hooks F F, flanges C and D, with opening B, when constructed substantially as described, and used for the purposes herein specified.

As evidence that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

DAVID R. MILLER.

Witnesses:

JOHN A. HALLER,  
ANDREW SANTO.