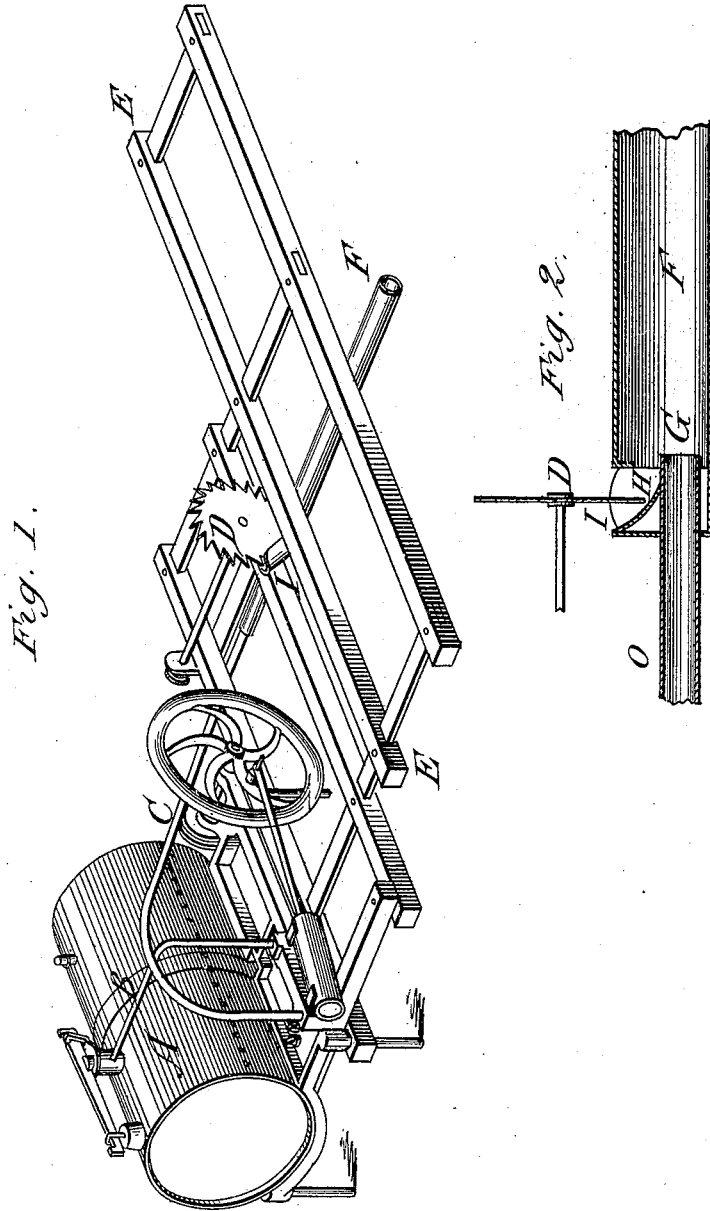


M. HAY.
Mechanism for Removing Saw-Dust.

No. 205,548.

Patented July 2, 1878.



Attest:

C. L. Carter
E. A. Carter

Inventor.

Madison Hay

UNITED STATES PATENT OFFICE.

MADISON HAY, OF UNION CITY, INDIANA, ASSIGNOR TO ISAAC HAY, OF
DARKE COUNTY, OHIO.

IMPROVEMENT IN MECHANISMS FOR REMOVING SAWDUST.

Specification forming part of Letters Patent No. 205,548, dated July 2, 1878; application filed
May 17, 1877.

To all whom it may concern:

Be it known that I, MADISON HAY, of Union City, in the county of Randolph and State of Indiana, have invented a new and useful Improvement for Removing Sawdust, Shavings, &c., by exhaust-steam; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1 represents an ordinary portable saw-mill with my improvement attached. A represents the boiler; B, the induction-pipe; C, the exhaust-pipe passing under the carriage-way E E and saw D, and connected with pipe O; F, the discharge-pipe; I, the hopper into which the sawdust falls. Fig. 2 represents a longitudinal section of my invention.

The object of my invention is to utilize exhaust-steam, by means of which sawdust, shavings, &c., can be removed from the pit of saw-mills, &c., by the use of exhaust-steam, thereby dispensing with the use of costly machinery or hand labor. The small pipe O, provided, as shown, with nozzle G, enters the large pipe F, near the lower inner surface and directly under the hopper I and the curved piece H. The discharge-pipe F may be made

of wood, and extended to any distance desired, or may be carried to the furnace and discharge the dust, shavings, &c., into the furnace or wherever desired.

To enable others to use my invention, I will describe its operation.

The pipe O being attached to the exhaust-pipe C by forcing it over it, and the hopper I being placed under the saw D, it will be seen that when the mill is put in motion the exhaust-steam will pass through the pipes C and O to and through the large pipe F, and carry off the sawdust thrown by the saw D into the hopper I and down the curve H.

It will readily be seen by this arrangement that sawdust, shavings, &c., can be readily removed by exhaust-steam, thereby saving a great amount of labor and expense.

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

In combination with the saw D and hopper I, the exhaust-steam pipe C, ejector-nozzle O G, and discharge-pipe F, all arranged as and for the purpose set forth.

MADISON HAY.

Attest:

E. A. CARTER,
C. L. CARTER.