

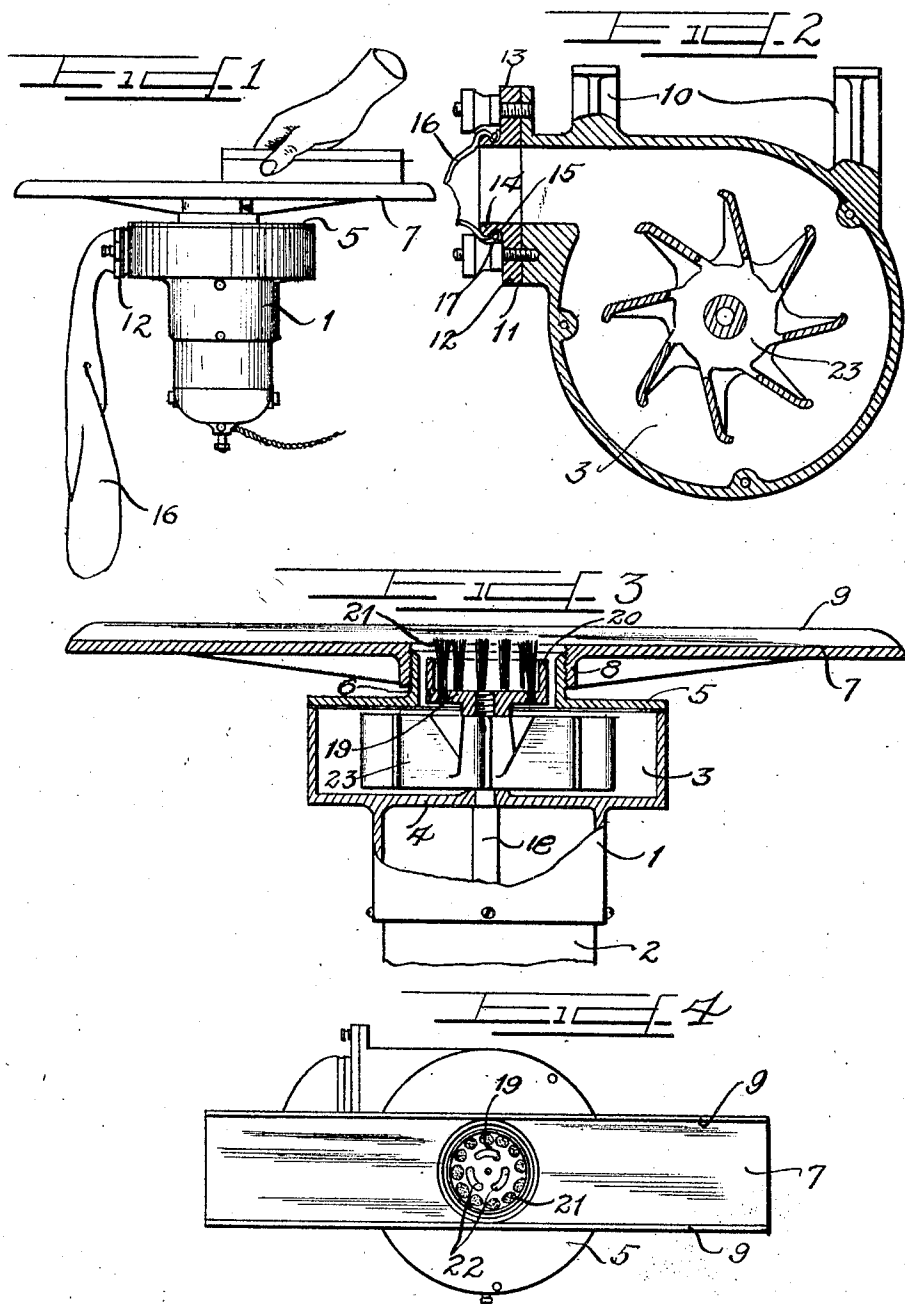
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J. LYNN

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ERASER CLEANING MECHANISM

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INVENTOR

James Lynn
Charles F. Kelly

BY

ATTEST

UNITED STATES PATENT OFFICE.

JAMES LYNN, OF CHICAGO, ILLINOIS.

ERASER-CLEANING MECHANISM.

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This invention relates to a machine for cleaning erasers.

It is generally known that erasers for cleaning the black boards in school rooms soon become saturated with chalk dust and have to be cleaned. In the past, this has usually been done by clapping the erasers together. This operation produced a great deal of dust that is rather objectionable—both from the standpoint of health and cleanliness.

It is an object of this invention to overcome this objection in the provision of a machine that will thoroughly clean the erasers, and that will collect the dust so that it cannot permeate the atmosphere of the school room.

The invention comprises the novel structure and combinations hereinafter described and more particularly pointed out and defined in the appended claim.

In the accompanying drawings which illustrate a preferred embodiment of this invention and in which similar reference numerals refer to similar features in the different views:

Figure 1 is an elevational view of the machine.

Figure 2 is an enlarged horizontal sectional view through the machine.

Figure 3 is an enlarged vertical sectional view of the machine.

Figure 4 is a top plan view of the machine.

In referring to the drawings which illustrate an embodiment of this invention, the numeral 1 represents a cylindrical casing which supports a motor 2 at its lower end, and which is provided at its upper end with an enlarged fan chamber 3 which is separated from the lower portion by the partition 4. A form of cover 5 rests upon the top of the wall of the chamber 3. This cover has a central opening which is defined by the annular upstanding flange or neck 6. A platform 7 having a central aperture defined by the annular depending flange 8 which is threaded upon the annular flange 6 forms the top of the machine. This platform is relatively long and narrow and its lateral margins are provided with upstanding flanges 9 to form a guideway for a purpose that will later appear. A pair of attaching brackets 10 extend from the wall of the chamber 3 for supporting the machine from a wall or the like.

The cylindrical chamber 3 is provided with a horizontally extending opening or port 11 having a removable head 12 retained thereon by screws 13. This head is centrally apertured to correspond with the port 12, and is provided with an outwardly extending neck 14 which has an exterior groove 15. A bag 16 is adapted to be suspended from the neck 14, by having its mouth engaged thereover with a binding cord or member 17 located in the groove 15.

The motor shaft 18 extends through the partition 4, and its upper end which approaches the opening in the chamber 3, is threaded. A brush is threaded upon the upper end of the motor shaft. This brush consists of a cylindrical base 19 having an annular upstanding flange 20 sufficiently spaced from the neck 6 of the chamber to provide proper clearance and for the entrance of chalk dust into the chamber. The bristles 21 of the brush extend in a circular series from the base 19 which is suitably slotted, as indicated at 22 (Fig. 4), within the circular series of bristles for the escape of dust from the brush. A fan 23 is secured upon the motor shaft within the chamber 3 and its blades are so directed that it will create a suction within the chamber and draw the chalk dust and other dust therein.

In the use of this machine, the motor is energized to rotate the fan and brush, the eraser is then passed over the brush which will beat or agitate the dust therefrom—the fan drawing the dust down into the cylindrical chamber 3 and blowing the same out through the port 11 and into the bag 16.

It will be appreciated that the brush will effectively agitate the dust from the sides of the eraser as well as from the bottom by properly manipulating the same, and the fan will effectively collect the dust and prevent it from scattering throughout the room. The machine may be easily attached at some convenient place by the brackets 10 as is obvious.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim:

In a machine of the class described, a platform having upstanding parallel guide

flanges and an opening bordered by an annular depending flange, a suction chamber having an outlet port and having an opening bordered by an annular flange threaded to receive said depending flange, a rotary brush mounted on a vertical axis and located in the opening defined by said flanges, a rotary fan in said chamber mounted on the

brush axis, dust collecting means at the suction chamber outlet port, and a motor beneath and supported by said suction chamber and connected axially with said brush and fan for rotating the two.

In testimony whereof I have hereunto subscribed my name.

JAMES LYNN.