

July 29, 1941.

W. A. SCHAFER

2,251,069

ERASER CLEANING APPARATUS

Filed Jan. 7, 1941

2 Sheets-Sheet 1

Fig. 1.

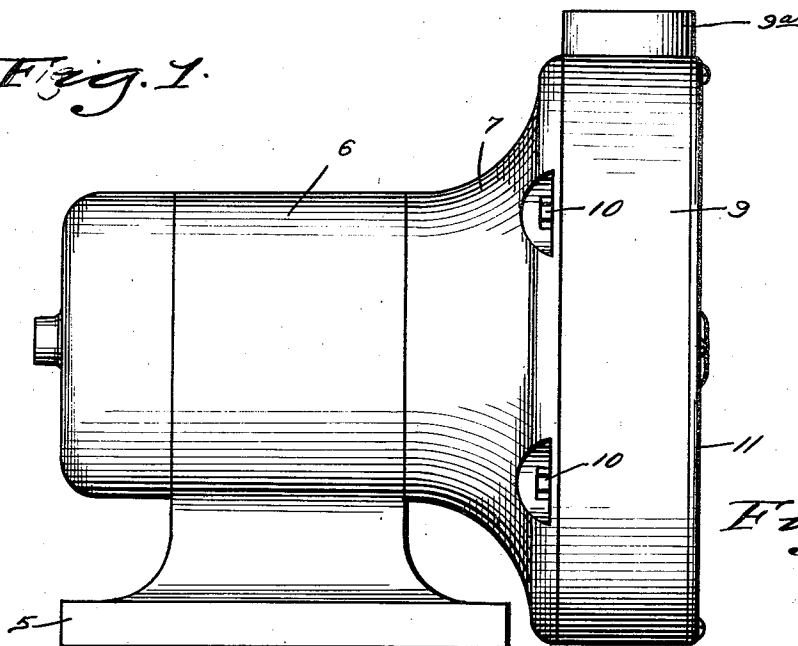


Fig. 6.

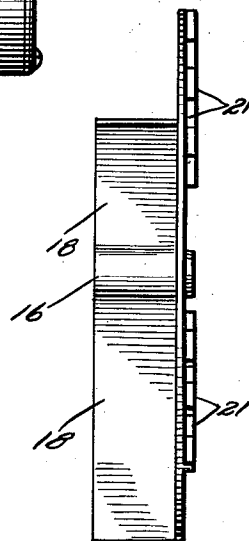
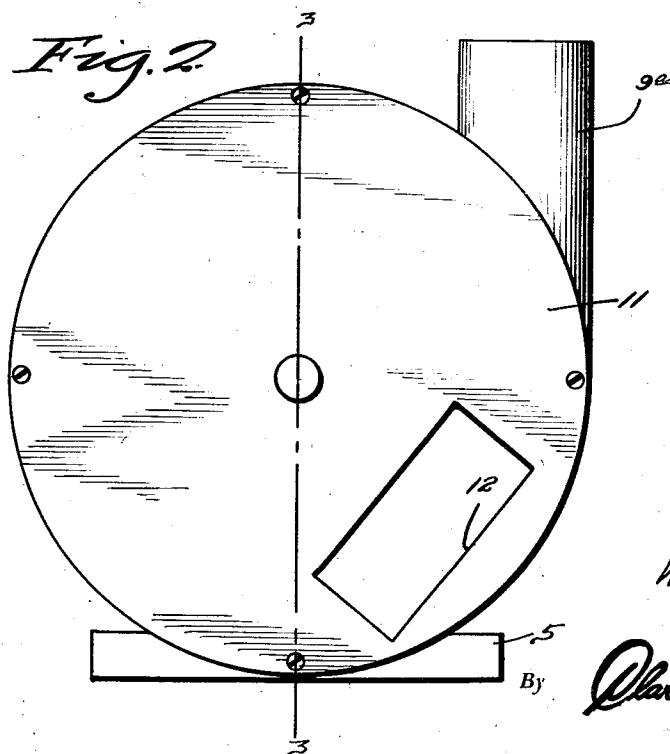


Fig. 2.



Inventor

Walter A. Schaffer

By *Clarence A. O'Brien*

Attorney

July 29, 1941.

W. A. SCHAFFER.

2,251,069

ERASER CLEANING APPARATUS

Filed Jan. 7, 1941

2 Sheets-Sheet 2

Fig. 4.

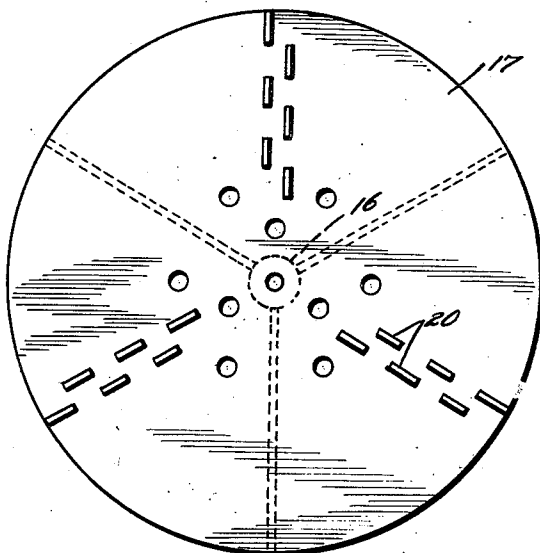


Fig. 3.

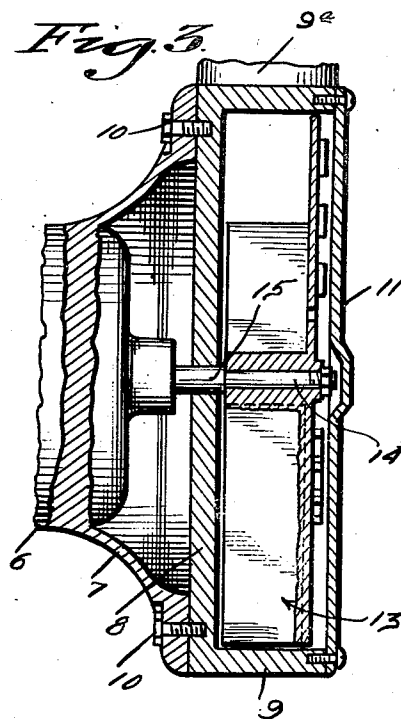


Fig. 5.

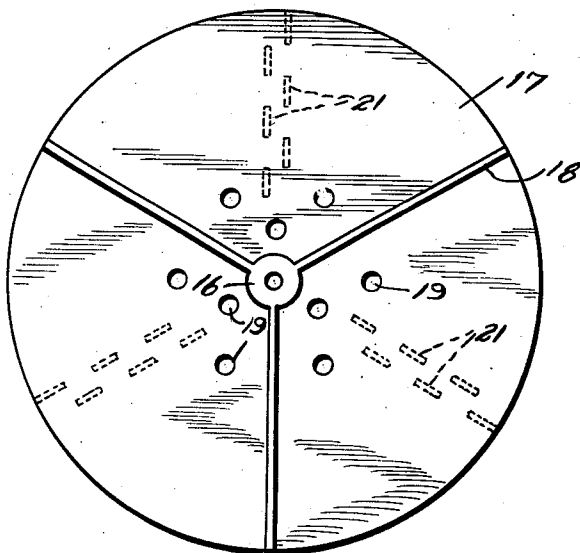
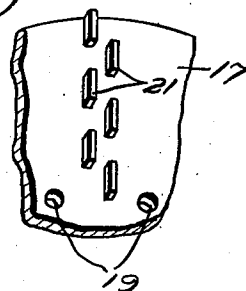


Fig. 2.



Inventor:

Walter A. Schaffer

 $B_{\gamma'}$

Clarence A O'Brien

Attorney

UNITED STATES PATENT OFFICE

2,251,069

ERASER CLEANING APPARATUS

Walter A. Schaffer, Chicago, Ill.

Application January 7, 1941, Serial No. 373,502

1 Claim. (Cl. 15—12)

This invention relates to new and useful improvements in cleaning apparatus for blackboard erasers, the principal object being to provide an eraser cleaner which will positively remove all chalk dust from the eraser and displace the same to a point where it cannot be readily breathed in by the person operating the apparatus.

Another important object of the invention is to provide an eraser cleaning apparatus of the character stated which in operation will be positive acting and in construction durable.

These and other objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:

Figure 1 represents a side elevational view of the apparatus.

Figure 2 is a front elevational view.

Figure 3 is a fragmentary vertical sectional view taken substantially on line 3—3 of Figure 2.

Figure 4 is an outside elevational view of the rotor.

Figure 5 is an inside elevational view of the rotor.

Figure 6 is an edge elevational view of the rotor.

Figure 7 is a fragmentary perspective view of the cleaner cleats.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes a base upon which a motor 6 is mounted. Extending from one end of the housing of this motor 6 is an outwardly flaring shell 7 which is secured to the back wall 8 of a cylindrical housing 9 by machine screws 10. This housing 9 has a removable front wall 11 having an opening 12 therein of a size to accommodate a blackboard eraser.

Numerals 13 denotes a rotor mounted within the housing 9 and which is mounted on the outer reduced end 14 of the armature shaft 15 of the

motor 6. The rotor 13 consists of a hub 16 to one end of which is secured the substantially large disk 17 and laterally from which extend blades 18 each of which at one longitudinal edge thereof is secured to or formed with the disk 17.

The disk 17 has openings 19 therethrough adjacent the hub 16 while on the front side of the disk and arranged in radial rows are cleats 20. Each arrangement of these cleats consists of a pair of rows of these cleats 20 with the cleats of the two rows in laterally offset relation to each other.

Obviously when an eraser is placed in the opening 12 a sweeper sweeps up the cleat 20 where removed soft dust from the eraser and the soft dust can readily settle through and pass to the individual cleats 20 to reach the openings 19 through which the dust is drawn by blades 18 and expelled through the exhaust or outlet 21.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described the invention what is claimed as new is:

An eraser cleaning apparatus comprising a housing, a drive shaft extending into the housing, a hub carried by the end portion of the drive shaft located within the housing, a disk carried by the outer end of the hub, radially disposed blades projecting from the hub and at the inner side of the disk, said disk having dust passing openings therein and provided with cleats at the outer side thereof, said housing being provided with a removable cover plate having a rectangular-shaped eraser receiving opening therein behind which pass the cleats, and a dust outlet for the housing.

WALTER A. SCHAFFER.