

H. B. MARSHALL.

BLACKBOARD ATTACHMENT.

No. 169,649.

Patented Nov. 9, 1875.

Fig. 1.

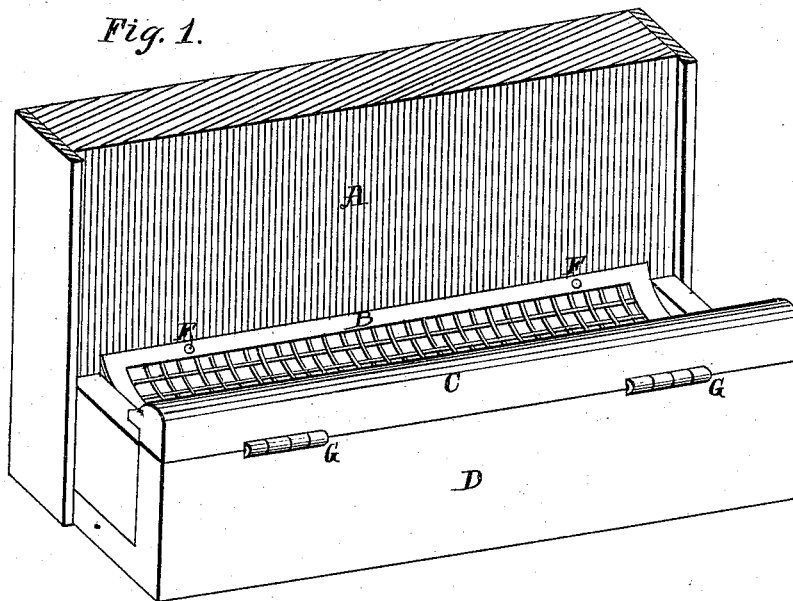
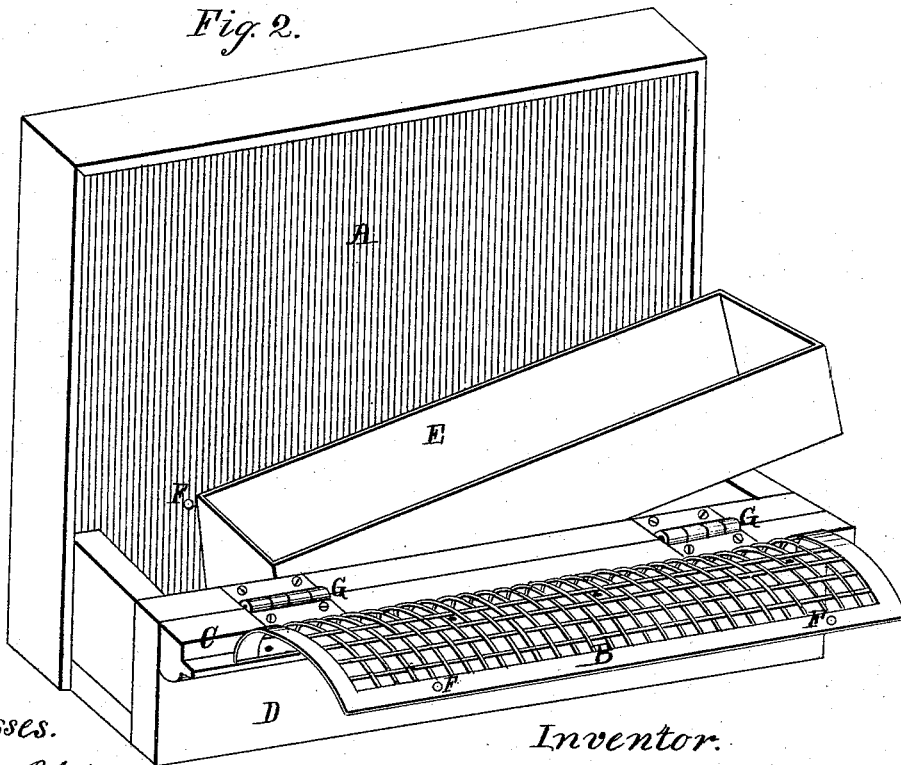


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN BLACKBOARD ATTACHMENTS.

Specification forming part of Letters Patent No. 169,649, dated November 9, 1875; application filed  
April 13, 1875.

*To all whom it may concern:*

Be it known that I, HORACE B. MARSHALL, of Kingston, county of Plymouth and State of Massachusetts, have invented certain Improvements in an Attachment to a Blackboard or Blackboard-Trough, of which the following is a specification:

The invention consists in the application of wire-netting or netting of any substance (used for the purposes herein set forth) to blackboards or blackboard-troughs, as a receiver for crayons or any other substance used for marking upon blackboards; also, as a receiver for erasers, and for cleaning the same.

The object of the invention is to provide a more convenient receptacle for crayons, in which they will be separated from the dust which usually collects in considerable quantities in the trough of a blackboard. Another object of the invention is to prevent the dust arising from the use of crayons upon blackboards from being scattered upon the floor of the room, or through the atmosphere of the room, to be inhaled by the occupants thereof. A further object of the invention is to serve as a receiver for erasers, and a cleaner for the same.

A view of the crayon-receiver and eraser-cleaner is shown in the drawings which accompany this specification. I describe the drawings as follows:

In Figure 1, A represents a blackboard; B, the wire-netting; D, a blackboard-trough; and F F, buttons attached to the blackboard and fitting into button-holes in the wire-netting.

In Fig. 2 there is substantially the same view of the blackboard and attachments, and the parts are respectively designated by the same letters as in Fig. 1, with this addition, that in Fig. 2 E represents a movable receptacle or trough in process of being removed from the stationary trough D. Fig. 2 also represents the wire-netting B as turned back to admit of the removal of the trough E.

The wire-netting B, as represented in Figs. 1 and 2, is concave, this being the most con-

venient shape for a crayon-receiver; but if desired, it might be flat. The wire netting B is attached to the molding C. The molding C is attached to the stationary trough D by the butts G G. B might be attached directly by butts or otherwise to the trough D, or even to the movable trough E. The wire-netting or crayon-receiver B is held in place by the buttons F F. The crayons or erasers are placed on the receiver B. The dust caused by marking, or by the erasure of marks upon the blackboard A, falls through the meshes of the receiver B, and is collected in the trough D, or in the movable trough E, if it is used.

The blackboard eraser being filled with dust from constant use, by being rubbed along the meshes of the receiver B is freed from dust, which passes down into the receptacle beneath.

In Fig. 2 the crayon-receiver B is represented as turned back, for the purpose of removing the movable trough E.

Other substances and devices besides wire-netting might be used for the crayon-receiver and eraser-cleaner, such as metal or wood, perforated, or pieces of wood or metal laid transversely across the trough D; but wire-netting being cheap and durable, is preferable to anything else for the purposes for which the receiver is designed.

I do not claim the trough D, as in various forms it is in universal use. I am not particular to claim the movable trough E, although as an attachment to a blackboard-trough I think it is new.

What I claim, and desire to secure by Letters Patent, is—

In combination with a blackboard-trough the netting B, to form a receiver for crayons and a cleaner for erasers, substantially as described, and for the purpose set forth.

HORACE B. MARSHALL.

Witnesses:

CHARLES BLAISDELL,  
ABEL L. LAWTON.