

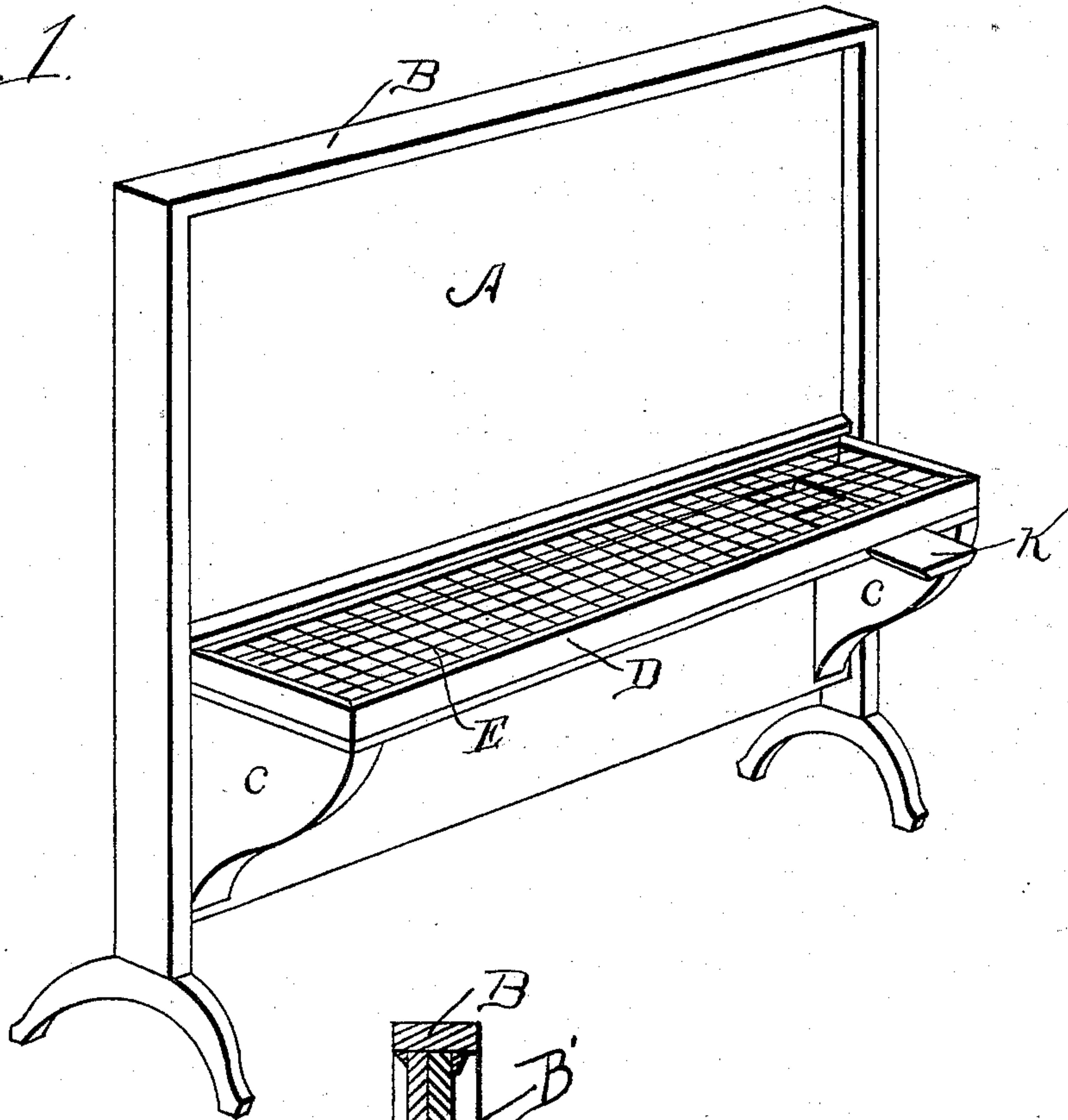
(No Model.)

J. M. TAYLOR.  
DUSTLESS REMOVABLE BLACKBOARD TROUGH.

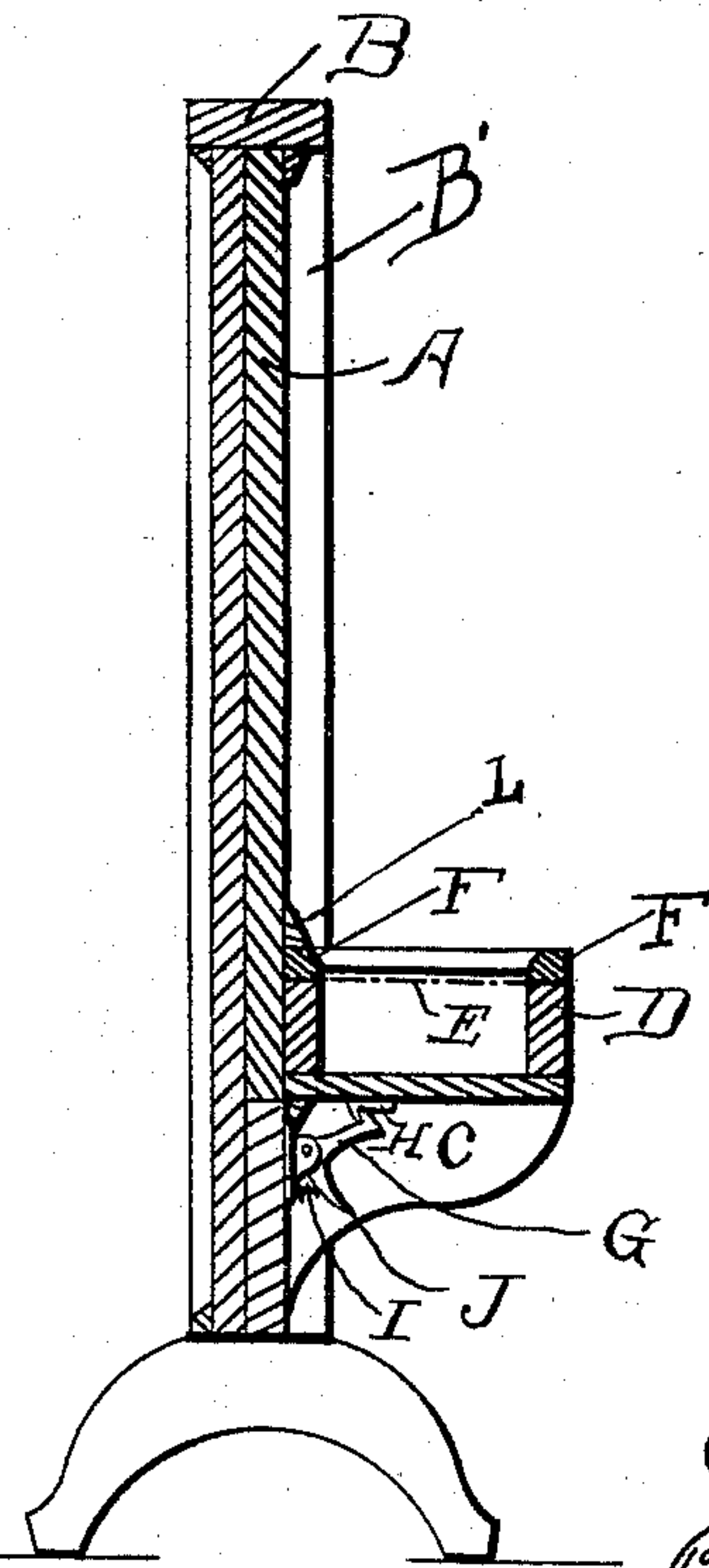
No. 540,368.

Patented June 4, 1895.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*W. J. North*  
*Geo. B. Squire, Jr.*

*James M. Taylor*  
Inventor

*By Chas. E. Barber*  
His Attorney



# UNITED STATES PATENT OFFICE.

JAMES M. TAYLOR, OF HAMILTON, NEW YORK, ASSIGNOR OF ONE-HALF TO  
CHARLES H. THURBER, OF SAME PLACE.

## DUSTLESS REMOVABLE BLACKBOARD-TROUGH.

SPECIFICATION forming part of Letters Patent No. 540,368, dated June 4, 1895.

Application filed January 17, 1894. Serial No. 497,125. (No model.)

### *To all whom it may concern:*

Be it known that I, JAMES M. TAYLOR, a citizen of the United States, residing at Hamilton, in the county of Madison and State of New York, have invented certain new and useful Improvements in Dustless Removable Blackboard-Troughs, of which the following is so full, clear, and exact a description as will enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the invention. Fig. 2 is a transverse vertical section of the same.

The object of the invention is to provide a blackboard with a trough by the use of which the accumulations of dust and powdered chalk in the bottom of the trough will not have the effect of soiling the crayons and eraser, as heretofore.

Another object of the invention is to provide means whereby the chalk may be collected in a receptacle by itself entirely distinct and separate from the crayons and eraser.

Another object of the invention is to provide means for removing the chalk which falls from the board without scattering it about the school room.

Another object of the invention is to provide means for the reception and accommodation of the chalk which falls from the board end of the crayons and of the erasers in such a manner as to keep the crayons and erasers away from the chalk.

In the accompanying drawings, A designates the blackboard proper which may be supported by a suitable frame B, which may be supported in turn on a table or stand, or which may be secured to the wall of the room. Below and in front of the board A are two brackets C, C, adapted to support a trough D, which has, extending over its top, a perforated cover or section E, properly fitted within the moldings F, which not only serve to hold the screen in position, but which form a sort of guard or railing to prevent the crayons and erasers from rolling off.

Beneath the trough about centrally is located a locking catch G, which is adapted to

engage automatically with a projection H on the bottom of the trough. The locking catch is provided with a suitable spring I and the projecting thumb piece J, for disengaging it when it is desired to remove the trough. At one end of trough a section of the bottom is removed and a cover K is provided for this opening. In the drawings is shown a sliding cover for this purpose. It is obvious however, that this cover might be dispensed with without departing from the spirit of my invention, and the trough could be turned bottom side up and with a rap or two, the powdered chalk would fall out through the grating.

The exact form of locking catch need not be used as any suitable locking device for this purpose would do the work with equal facility. The molding L at the bottom of the blackboard is slightly beveled so that the powdered chalk falling from the board will strike this oblique surface and roll off away from the board and down into the trough.

In practice the trough is made of wood and is provided with a solid bottom having a perforated wire cloth top but it should be distinctly understood that the material of which the trough is made and the shape of the trough may be varied at will without departing from the spirit of the invention. It will also be understood that other material besides wire netting or cloth may be used for the perforated top without departing from the spirit of the invention and without in any way interfering with its usefulness.

The advantages of the device are as follows:

First. The chalk dust from the board or eraser falls through the upper wire bottom and is held in the trough below it, so that it cannot be reached by crayon or eraser.

Second. The crayons, erasers, &c., placed on the wire bottom are kept from all the dust in the trough, rest always on a perfectly clean surface and are consequently clean when picked up for use.

Third. The erasers can be cleaned by rapping the rubbed surface on the wire bottom. In either case the dust falls in the trough below.

Fourth. The trough can be easily removed and cleaned by tipping it up on end and emptying it.



tying the dust through the opening in the bottom. This opening is shut with a slide. It will not be necessary under any ordinary circumstances to empty the dust more than  
5 once in a school year.

Fifth. The trough can be made of any material and so adjusted as to be applied to any blackboard.

Sixth. The trough collects practically all  
10 the dust that falls from the blackboard and keeps it from dropping on the floor or upon the person using the board. By means of this trough, more chalk dust will be removed from the class room than by all other devices  
15 combined. It therefore has very important sanitary advantages.

The main feature of the invention is the provision of a trough having an imperforate bottom and what will be termed in this ap-  
20 plication, a perforated top cover without regard to various equivalents forms and materials which might be substituted for what is shown, without departing from the spirit of the invention, and while the device as shown  
25 and described is applicable to blackboards, the right is reserved to use the invention in any other proper and advantageous connection or with any other form of device where the use of such trough may be advantageous.

30 The trough as shown, is adapted for use with ordinary blackboards now in use, requiring but little labor and alteration to put the trough in operative position.

35 The end pieces B', B', project out in front of the blackboard a sufficient distance to con-

fine or limit the sweep of the eraser and they also serve to hold the trough against lateral displacement.

I claim—

1. A blackboard with an oblique molding at  
40 the bottom; in combination with two brackets C, C, and a removable trough, adapted to fit between the upper ends of the brackets and the lower edge of the oblique molding and a  
45 spring catch beneath the trough, substantially as described whereby the trough may be removed and replaced instantly, substantially as described.

2. A blackboard provided with an oblique  
50 molding extending along above the upper edge of the trough and end pieces projecting in front of the line of the blackboard and shelves C, C, adapted to support the trough; in combination with a removable trough hav-  
55 ing a closed bottom and a perforated top, rigidly secured to the trough beneath the edge of the trough, and suitable moldings F, forming a guard all around the upper portion of the trough, and a spring locking device se-  
60 cured to the main structure, and a projection on the bottom of the trough, adapted to en-  
gage with the spring catch, substantially as described and for the purposes specified.

In testimony whereof I affix my signature in the presence of two witnesses.

JAMES M. TAYLOR.

Witnesses:

B. J. STIMSON,  
B. F. CASE.