

(No Model.)

J. F. PALMER.  
BLACKBOARD ERASER.

No. 412,116.

Patented Oct. 1, 1889.

Fig. 1.

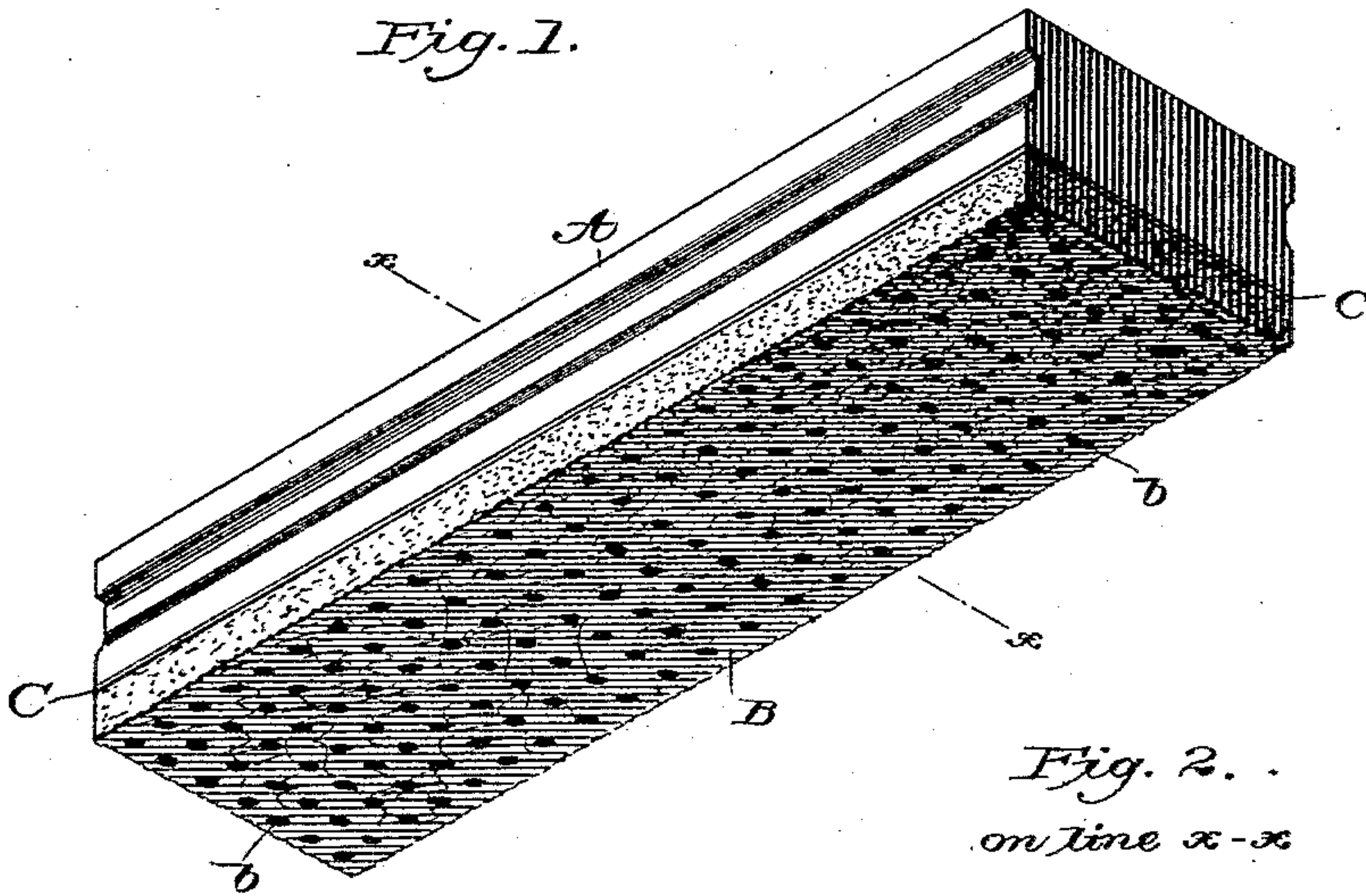


Fig. 2.  
on line x-x

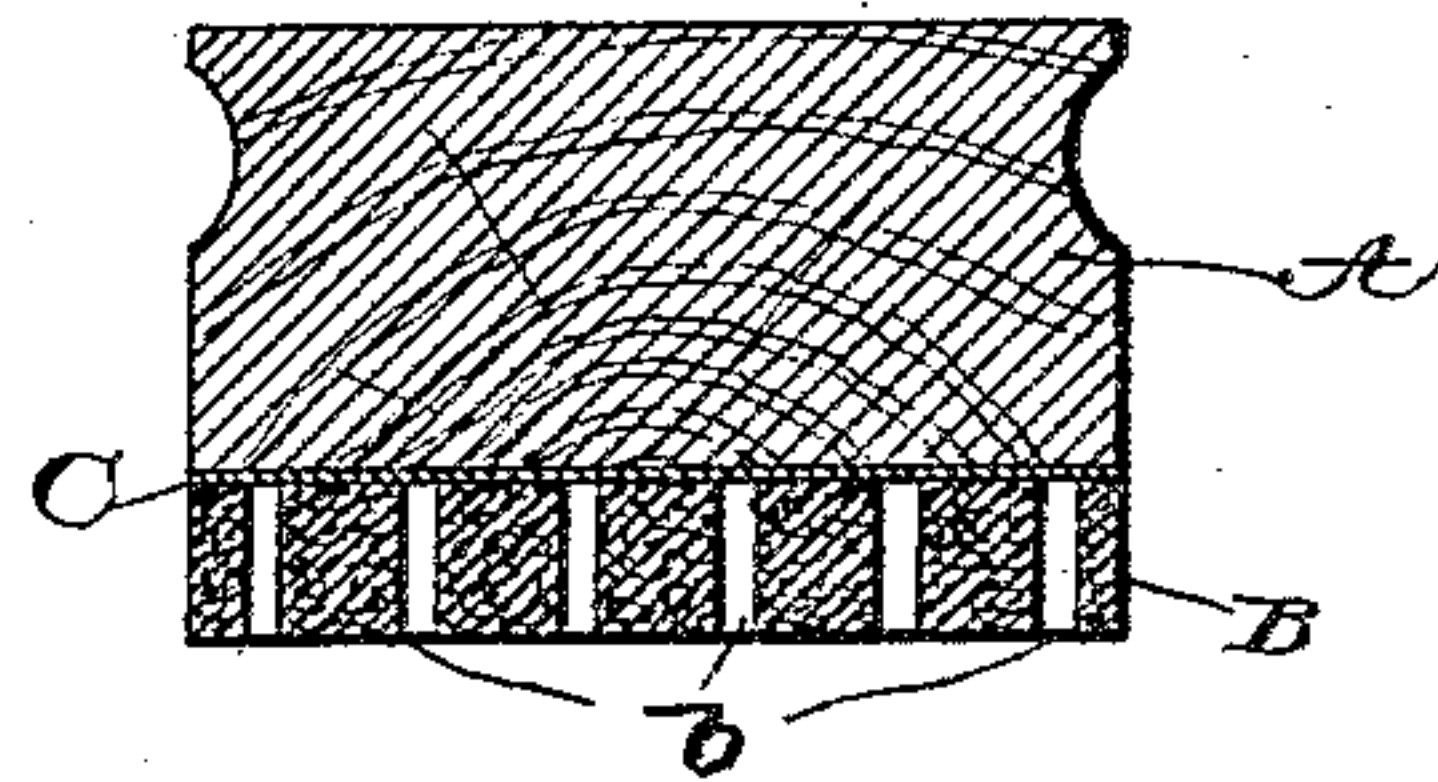
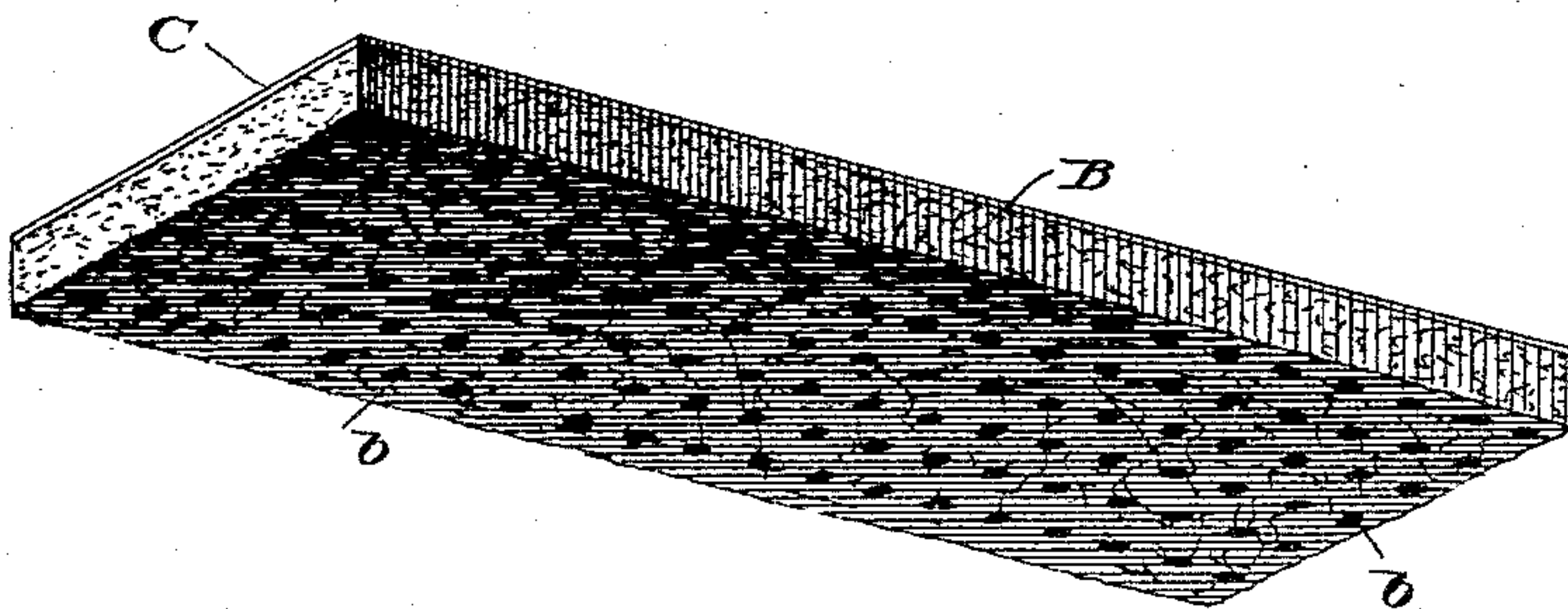


Fig. 3.



Witnesses  
W. H. Mortimer  
A. R. Kennedy

Inventor  
J. F. Palmer  
By his Attorney  
Phil. T. Dodge

# UNITED STATES PATENT OFFICE.

JOHN FULLERTON PALMER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THOMAS KANE, OF SAME PLACE.

## BLACKBOARD-ERASER.

SPECIFICATION forming part of Letters Patent No. 412,116, dated October 1, 1889.

Application filed May 16, 1889. Serial No. 311,011. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN FULLERTON PALMER, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Blackboard-Erasers, of which  
5 the following is a specification.

The aim of my invention is to provide a cheap and efficient eraser the wearing-surface of which may be readily renewed at a trifling cost and without the employment of  
10 tools or skilled labor.

In the accompanying drawings, Figure 1 is a perspective view of my eraser. Fig. 2 is a cross-section of the same on the line *xx*. Fig.  
15 3 is a perspective view of the erasive material as prepared for application to the handle or body.

Referring to the drawings, A represents a body or handle, made preferably of wood, in  
20 the form shown or similar form presenting a flat surface to receive the erasive material.

B represents the erasive material secured to the face of the body. I prefer to use a heavy and tenacious felt, and to provide the  
25 same with numerous small perforations *b*. In practice it is found that these perforations serving as cells to retain the chalk are very advantageous, as they prevent the body of the material from being overloaded with the  
30 chalk, leave the surface in better operative condition, and admit of the chalk being readily discharged by sharply rapping the eraser. The cells are advantageous not only in felt, but also in cloth, chamois-skin, and other ma-  
35 terials used in erasers.

The perforated fabric may be secured to the body in any suitable manner; but in order to hold it firmly in place and admit of its being replaced by new material I prefer to cement the felt firmly to a backing-sheet C, 40 of paper or like material, and to unite the latter in turn to the face of the block by glue or other adhesive soluble in water, so that it may be readily soaked loose.

I propose to place the erasive material with  
45 its paper backing coated on the back with the soluble adhesive in the form shown in Fig. 3 on the market as an article of commerce, so that the purchaser has only to moisten the adhesive and press the same  
50 against the surface of the body or handle to effect a secure union of the parts.

Having thus described my invention, what I claim is—

1. In a blackboard-eraser, the combination 55 of the block or body, the facing of soft material, as felt, and the intermediate sheet cemented to the body and to the facing.

2. As a new article of commerce, the facing 60 for blackboard-erasers, consisting of the erasive fabric and a backing-sheet cemented on one face to the fabric and coated on the other face with a soluble adhesive.

In testimony whereof I hereunto set my hand, this 6th day of May, 1889, in the pres- 65 ence of two attesting witnesses.

JOHN FULLERTON PALMER.

Witnesses:

EDWARD HOWARD,  
H. H. MORGAN.