(No Model.)

G. ELSEY.

ERASER.

No. 296,397. Patented Apr. 8, 1884.

Fig. 1



Fig. 2

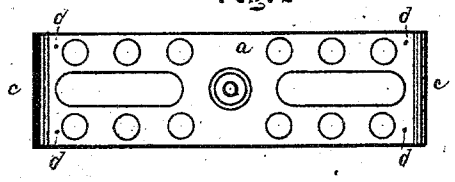


Fig. 3

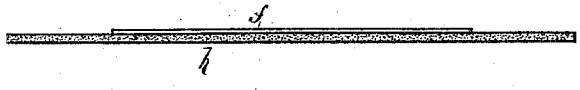


Fig. 4

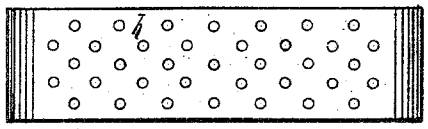


Fig. 5

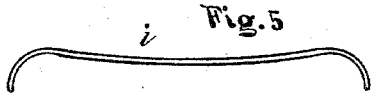
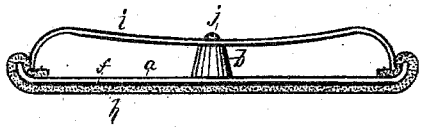


Fig. 6



Witnesses;
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UNITED STATES PATENT OFFICE.

GEORGE ELSEY, OF SPRINGFIELD, MASSACHUSETTS.

ERASER.

SPECIFICATION forming part of Letters Patent No. 296,397, dated April 8, 1884.

Application filed February 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ELSEY, of Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Blackboard-Rubbers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to erasers having an adjustable handle, and also to the construction of the erasing portion.

Heretofore the construction of adjustable erasers has been such that the adjustment of the erasing material has been difficult and liable to become moved in using; and, further, the erasing material stretches and slips on the holder, and, as at present constructed, the erasing material becomes filled, rendering the erasing operation defective.

The object of my invention is to obviate the objectionable features heretofore existing, and I accomplish these objects by the construction and arrangements herein shown.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a side, and Fig. 2 a top view, of the base portion. Fig. 3 is an edge view of the erasing material, having a stiffening-piece attached. Fig. 4 is a view of a perforated erasing-surface. Fig. 5 is a side view of the handle portion, and Fig. 6 is a side view of the completed device.

The base-piece *a*, which I prefer to make of metal, is provided at each end with upwardly-projecting parts *c*, and has in its central portion a boss, *b*. The pins *d* are located a short distance from the ends *c*. The erasing material is laid on the base-piece, and its ends are folded over the ends *c* in the manner shown, being forced over the pins. The handle *i* is then placed in position and securely held by the screw *j*, which, passing through the handle, enters the boss *b*. The ends of the handle-piece *i* will bear against the erasing material just inside the upturned portions of the base-piece, and, being forced inward by the action of the screw, will tend to draw and stretch the material tightly on the face of the eraser. The boss is not essential, as the screw may pass from the handle to the base-piece, and thus force the parts toward each other and accomplish the desired result. This will not, however, give the same rigidity as the first-described construction.

To prevent the objectionable slipping and stretching heretofore existing, I stiffen the erasing material. This may be done in several ways. I prefer to attach to the surface of the erasing material a stiffener, which may be of any material, and may be attached in any convenient manner. I prefer to use leather, and to fasten the stiffener to the erasing material with cement or glue. The stiffener should only extend across the face, as shown.

Another method of stiffening the erasing material is to cover or saturate its upper surface with cement, glue, or other like material. It will be seen that if the erasing material be stiffened it will not stretch while being used, and that when once fixed in place it will remain without moving on the holder, thus giving a firm and rigid erasing-surface, the advantages of which over those heretofore used are too well known to require description.

To prevent the erasing material becoming filled and clogged with dust, I perforate it through that portion which comes in contact with the surface to be cleaned; or recesses may be formed which will accomplish the same result—*i. e.*, form a series of chambers in which the dust will accumulate, and from which it will fall without being packed in the erasing material. I prefer also to perforate the base-piece, thus making a skeleton erasing portion, through which the dust will pass and all danger of clogging be obviated.

It will readily be seen that the perforated or stiffened erasing material may be used with other holders than the one shown by me. I do not therefore confine myself to the application of my improvements to holders of this class alone.

Having therefore described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a base-piece, *a*, having projections *c*, an erasing material, a handle-piece, *i*, and means to hold the parts in position, substantially as and for the purposes stated.

2. The piece *i*, screw *j*, and erasing material *h*, in combination with a base-piece, *a*, having boss *b*, pins *d*, and projections *c*, all constructed and operating substantially as shown.

Witnesses: GEORGE ELSEY.
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GEO. O. KINGSBURY.