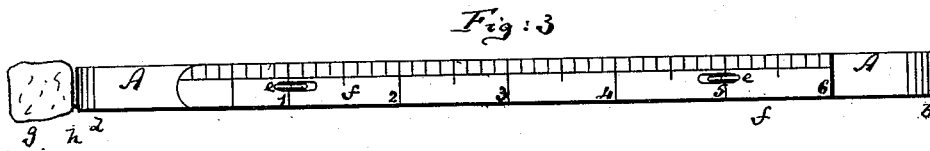
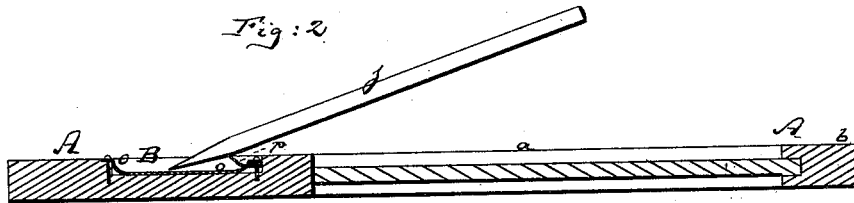
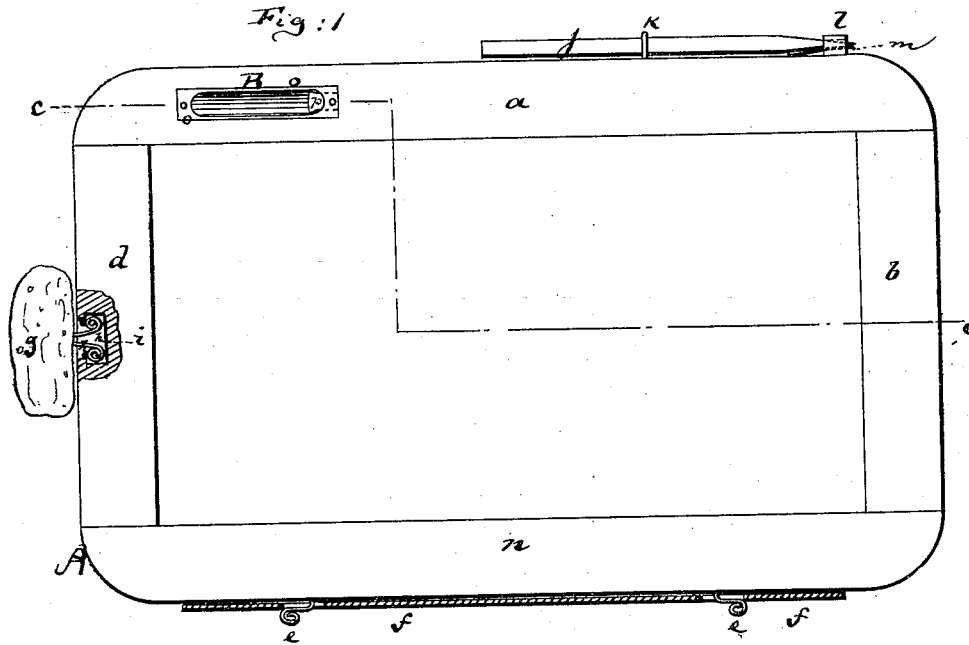


R. PARKE.

SLATE-FRAME ATTACHMENT.

No. 181,973.

Patented Sept. 5, 1876.



Witnesses:  
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Inventor  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SLATE-FRAME ATTACHMENTS.

Specification forming part of Letters Patent No. 181,973, dated September 5, 1876; application filed  
March 20, 1876.

*To all whom it may concern :*

Be it known that I, RICHARD PARKE, of New York city, in the county and State of New York, have invented a new and Improved School-Slate, of which the following is a specification:

Figure 1 is a face view, partly in section, of a school-slate provided with my improvements. Fig. 2 is a longitudinal section thereof on the line *c c*, Fig. 1. Fig. 3 is an edge view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to various improvements in school-slates; and consists in applying to the frame thereof several attachments for confining the pencil, sponge, and ruler to the frame, so that these devices may always be convenient to use, and yet readily attached to the slate. The invention also consists in providing the slate-frame with an improved pencil-sharpener, all as hereinafter more fully described.

In the accompanying drawing, the letter A represents the wooden frame of a school-slate. The same is composed of four strips, *a*, *b*, *n*, and *d*, jointed at or near their ends in the usual manner. To the edge or face of one of these strips, *a*, are secured two (more or less) projecting springs, headed pins, or equivalent catches, *e e*, made of wire or equivalent material, and clearly shown in Fig. 1. These catches are calculated to extend through corresponding slots formed in the ruler *f*. The outer ends or heads of the springs or catches *e e* will, when the ruler is applied, lap over the face of the ruler *f*, and thereby firmly hold the same in place; but the style of the projecting fastenings *e e* may be varied, and I do not wish to confine myself to the particular form of such fasteners shown in the drawing, although I consider them the most practical.

*g* is the sponge to be used in connection with the slate. The same is provided with and attached to two (more or less) diverging springs, *h h*, which fit, when compressed, into a countersunk recess, *i*, cut into the edge or face of the frame A. By this attachment the

sponge *g* may be readily applied to or removed from the slate.

For attaching the pencil *j* to the slate, I apply to the edge or side of the frame A two loops or staples, *k* and *l*, through which the pencil is passed. The loop *l* contains a small friction-spring, *m*, which presses the pencil against the inner side of said loop *l*, and thereby tends to hold the pencil in place.

The loop *l* may be of conical form, to protect the sharpened end of the pencil.

B is the improved sharpener applied to the face or edge of the slate-frame A. The body of this sharpener consists of a metallic or other dish-shaped plate, *o*, sunk into a recess of the slate-frame, and attached thereto by small pins or rivets, or in other suitable manner. Across one end of the dish-shaped depression of this plate *o* is applied a small metallic transverse knife-blade, *p*, which projects with its sharpened edge into the hollow of the said plate, as shown. The other end of the blade *p* passes through a slot in the plate *o*, and is then fastened to the frame A by one of the pins which fasten the said plate to the frame; but the said transverse blade *p* may be attached in other suitable manner.

The pencil is sharpened by drawing it in an inclined position over the sharp edges of the blade *p*.

I claim as my invention—

1. The combination of the school-slate frame A with the projecting pins or springs *e e*, and with the slotted ruler, substantially as herein shown and described.

2. In combination with the school-slate frame A, which has the recesses *i*, the sponge *g*, provided with the spring jaw or jaws *h h*, fitting into said recess *i*, substantially as described.

3. In combination with the school-slate frame A, the pencil-sharpener B, consisting of the depressed plate *o* and transverse knife-blade *p*, substantially as specified.

RICHARD PARKE.

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