No. 722,994. PATENTED MAR. 17, 1903.

H. KING.

SLATE OR SIMILAR DEVICE FOR EDUCATIONAL PURPOSES.

APPLICATION FILED JULY 14, 1900.

NO MODEL.

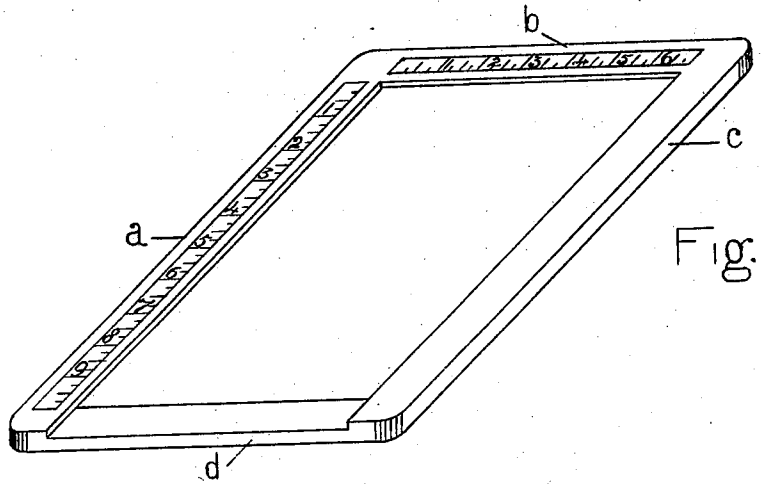


Fig. 1.

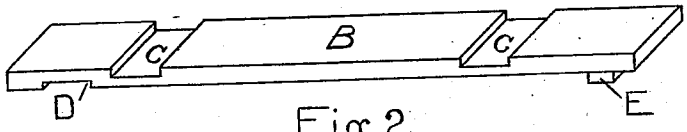


Fig. 2.

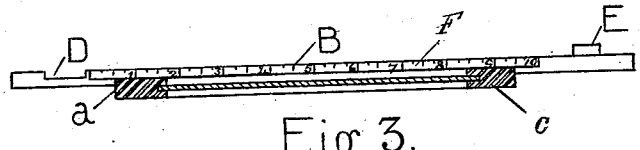


Fig. 3.

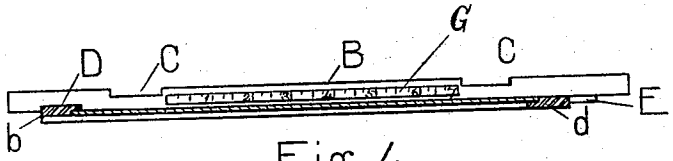


Fig. 4.

Witnesses
Thos. Kirkpatrick
L. Trumbel

Inventor
Henry King
by Alexander & Co
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HENRY KING, OF ST. LEONARD-ON-SEA, ENGLAND.

SLATE OR SIMILAR DEVICE FOR EDUCATIONAL PURPOSES.

SPECIFICATION forming part of Letters Patent No. 722,994, dated March 17, 1903.

Application filed July 14, 1900. Serial No. 23,611. (No model.)

To all whom it may concern:

Be it known that I, HENRY KING, a subject of the Queen of Great Britain and Ireland, residing at St. Leonard-on-Sea, in the county of Sussex, England, have invented a new and useful Improvement in Slates or Similar Devices for Educational Purposes, (for which I have made application for Letters Patent in Great Britain under No. 25,192, dated December 19, 1899,) of which the following is a specification.

This invention relates to slates and similar devices for educational purposes, and has for its object the provision of means whereby lines and other marks can be readily drawn upon the surfaces thereof with accuracy and precision in an extremely simple manner easily understood and grasped by young children.

My invention consists in the arrangement of the frame or edge of the slate or other device in combination with a ruler, so that the movement of the ruler upon the frame or edge can be made parallel to two sides of the said frame or edge. I arrange scales upon the said frame or edge and ruler, so that specific and predetermined increments of distance between the lines drawn can be readily made. I arrange the ruler so that its ruling edge is in close proximity to the surface of the slate or the like, and I provide surfaces upon the ruler, so as to contact with the frame or edge of the slate or the like on each side to maintain the parallelism of the movement of the ruler over the marking-surface. I may make one or more of the sides of the frame flush with the writing-surface of the slate or the like to allow the ruler to pass freely beyond the surface. In the case of a square slate or other device the ruler need only have one gage of guiding-surfaces; but in the case of an oblong slate or other device two gages of guiding-surfaces are provided on the ruler, preferably on opposite sides, so as to coact with the opposite sides of the frame or edges, according to the way the ruler is put across the writing-surface—viz., across the long way or the narrow way of the writing-surface.

In order that my invention may be the better understood, I will now proceed to describe the same in relation to the accompanying drawings, reference being had to the letters marked thereon.

Like letters refer to like parts in the various figures.

Figure 1 is a perspective view of a slate made according to my invention. Fig. 2 is a perspective view of the ruler constructed to coact with the said slate. Fig. 3 is a transverse section across the oblong slate, showing the ruler in position thereon parallel to the short axis of the slate. Fig. 4 is a longitudinal section of the oblong slate, showing the ruler in position thereon parallel to the long axis of the slate.

The sides *a b c* of the slate A are shown raised on the one side, while the side *d* is made flush with the surface of the slate, while on the other side the sides *a c d* are raised and the side *b* is flush. Scales of inches or other standard of measurement are provided on the sides *a* and *b*. The sides are made parallel in form and in relative position to one another. The ruler B is provided with two transverse channels C, which are of such a size and disposition as to engage over the sides *a* and *c* of the frame, so as to maintain the parallelism of the ruler to the sides *b* and *d* of the frame. The ruler edge thus lies close to the writing-surface of the slate, and the flush side *b* or *d* enables it to be brought down off the surface, so that the ruler can deal with the whole area. On the opposite side of the ruler a transverse channel D is provided, which is adapted to coact with the raised portion of the side *b* or *d*, while at the opposite end of the ruler a projecting chock E is provided, which engages around and upon the edge of the sides *b* and *d* on their flush sides. Scales F and G are provided on the edges of the ruler.

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

1. A slate or other writing-surface having a frame one portion of which is flush with one side of said writing-surface and the opposite portion flush with the other side of said surface.

2. The combination with a slate or other writing-surface having one portion of its frame flush with said writing-surface, of a

ruler unattached to said frame and provided with transverse guides adapted to fit two opposite portions of said frame.

3. The combination with a slate or other writing-surface having one portion of its frame flush with said writing-surface, of a loose unattached ruler having transverse channels to fit two portions of the frame lying at right angles with said flush portion.

4. The combination with a slate or other writing-surface of oblong rectangular shape, of a loose unattached ruler having transverse guides upon each side arranged at different distances apart so that said ruler can be laid across said frame in either direction and coact by means of its guides with the sides of said frame.

In witness whereof I have hereunto set my hand in presence of two witnesses.

HENRY KING.

Witnesses:
GEORGE ALFRED HERINGTON,
PERCY BARROW.