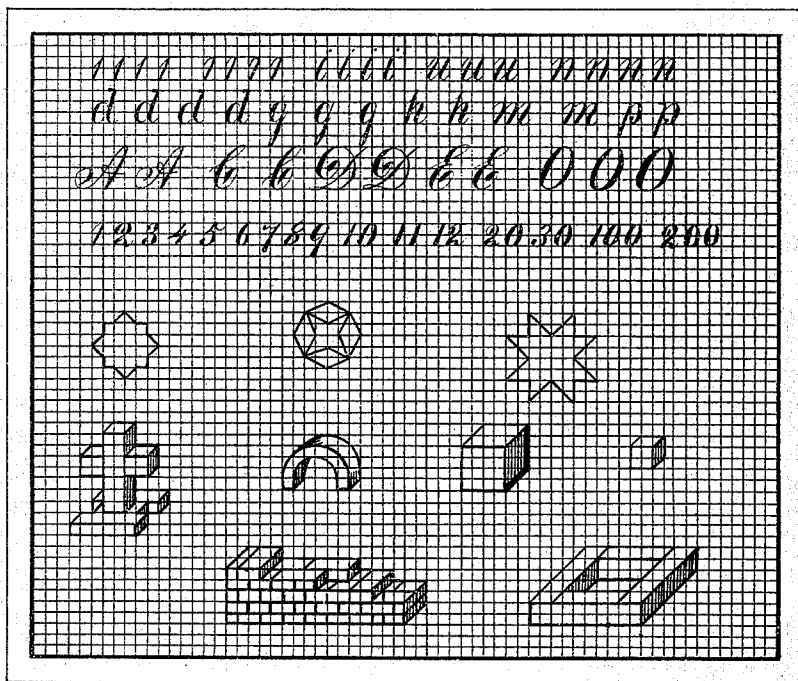


M. WILLSON.
Drawing-Tablets.

No. 146,300.

Patented Jan. 6, 1874.



Witnesses
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UNITED STATES PATENT OFFICE.

MARCIUS WILLSON, OF VINELAND, NEW JERSEY.

IMPROVEMENT IN DRAWING-TABLETS.

Specification forming part of Letters Patent No. 146,300, dated January 6, 1874; application filed October 30, 1873.

To all whom it may concern:

Be it known that I, MARCIUS WILLSON, of Vineland, county of Cumberland and State of New Jersey, have invented a new Tablet or Slate for Educational Purposes; and I do hereby declare that the following is a full, clear, and exact description and specification of the same, taken in connection with the accompanying drawing.

My invention appertains to writing, drawing, and music boards, tablets, or slates, so called, used for the instruction of pupils in writing, drawing, designing, and music; and its object is, first, to furnish a useful, cheap, convenient, and durable means by which certain arrangements of guiding-lines adapted to writing, drawing, designing, and music, impressed, printed, stamped, or drawn on paper or other suitable material, may be used as guides for writing, printing, drawing, and designing over said lines by a lead-pencil or crayon, so that said lead-pencil or crayon marks may be easily obliterated by a wet sponge or cloth without damage to the tablet, and so that the writing, drawings, designs, &c., made in whole or in part, may be readily corrected or redrawn without injury to the surface of the tablet; second, to furnish a means by which letters, writing, figures, designs, and studies may be traced and copied, corrected, redrawn, enlarged, or diminished, above the guiding-lines on the tablet, and then obliterated without injury to the tablet, so that by frequent repetition of tracing, correcting, and copying by the use of a lead-pencil or crayon, accuracy in writing, drawing, and designing may be more rapidly attained by the pupil. To these ends my invention consists in the combination of a tablet or tablets with lines, writing, designs, &c., on them, as aforesaid, with a hard and transparent surface covering, which is at the same time fine, hard, gritty, and durable, so as to be impervious to water.

In order that persons skilled in the art may better understand, make, and use my invention, I have shown in the accompanying drawing the character of the principal guiding-lines on the tablets, and the general character of the figures, designs, &c., that may be used in connection with said lines for the pur-

poses herein set forth, and I will proceed to describe my invention more particularly.

The drawing represents a sheet of paper, pasteboard, or other suitable material, lined after the manner of cross-section paper; but it may be differently lined for instruction in writing or music. Over these lines various letters, figures, shapes, and designs are printed or drawn on the surface which covers the lines, the signs, shapes, and configurations being proportioned and bounded by said lines, which are preferably printed in red color; but they may be of any suitable color, or colorless.

After the tablet is prepared as above, either with lines or lines and figures, the face is covered with a thin coat of the enamel mixture above referred to and hereinafter described, which is transparent, gritty, and fine, and is allowed to dry hard. After one, two, or more applications, the surface will be in a proper condition for use.

This enamel mixture referred to, and which I find best adapted to the purpose of covering the said tablet, but which I do not claim, is composed of benzine, thirty parts; benzine-varnish, forty parts; and pulverized silex or spar, sixty parts.

When said enamel is applied and has been dried, it is hard, transparent, gritty, to receive a lead-pencil or crayon mark, smooth, (by which I mean has an even surface,) and is entirely water-proof and durable.

The manner in which my invention is used is as follows: The pupil, with a lead-pencil or crayon, is caused to trace the letters, figures, or shapes of various kinds until he becomes mechanically familiar with the motions required to follow their shapes, and with their sizes and proportions, when he is directed to reconstruct them in another part of the same tablet, or on another tablet, guided by the lines in following the original. After the tablet has been filled, the marks are to be obliterated by the use of a wet sponge or cloth, and then the tablet is in order to have the same operation repeated.

I find these tablets very useful, requiring very little mental application by the pupil, and teaching him to write and make figures and designs nearly corresponding with the origi-

nals without the constant attention of the instructor.

Having now fully described my invention, what I claim is—

A drawing-tablet composed of pasteboard or other suitable material, having letters, figures, or lines, &c., printed or indicated thereon,

and provided with a transparent, water-proof, and gritty enamel coating, substantially in the manner and for the purposes set forth.

MARCIUS WILLSON.

Witnesses:

W. A. HOUSE,

FRANKLIN ROWELL.