(No Model.)

R. G. WINSLOW.

ART OF MANUFACTURING SLATES.

No. 262,528. Patented Aug. 8, 1882.

Fig. 1.

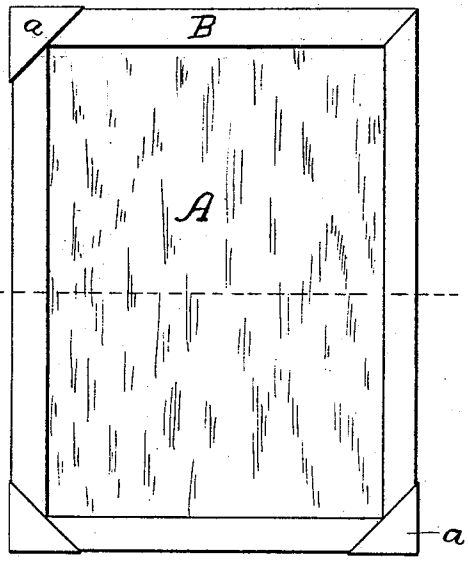


Fig. 2.

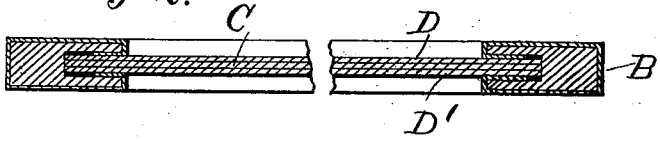
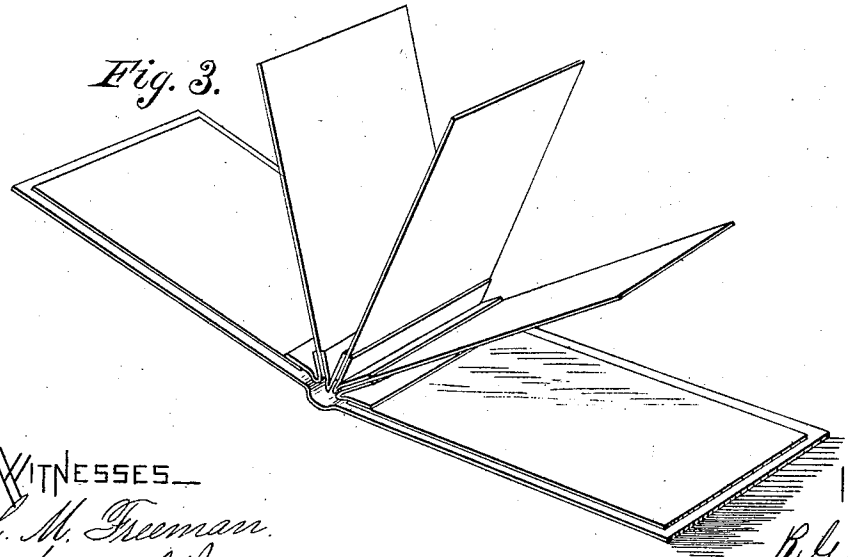


Fig. 3.



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UNITED STATES PATENT OFFICE.

ROBERT G. WINSLOW, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO OLIVER W. BARRETT, OF SAME PLACE.

ART OF MANUFACTURING SLATES.

SPECIFICATION forming part of Letters Patent No. 262,528, dated August 8, 1882.

Application filed June 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, ROBERT G. WINSLOW, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in the Art of Manufacturing Slates, of which the following is a description that will enable others to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, forming a part of this specification.

This invention relates to an improvement in the manufacture of slates, as will be hereinafter fully set forth.

Figure 1 is a face view of a slate embodying my improvement. Fig. 2 is a transverse section in the plane 2 2, Fig. 1; and Fig. 3, a modification.

Referring to the drawings, A represents the slate proper, and B the frame.

In manufacturing the slate I first take a sheet, C, of common straw or card board of suitable thickness to form a substantial body. Each side of this central body, C, is then covered with the leaves D D′, which are composed of smoothly-finished press-board. The joining surfaces are united by the use of any suitable adhesive composition, while the outer or writing surface of the leaves D D′ is covered with a composition, hereinafter set forth, which renders the surface smooth and hard, and readily admits of the writing or figures being erased. The corner-joints of the frame are strengthened and protected by means of the triangular caps *a*, which are composed of some noiseless material, like leather.

The slate-frame may be constructed of thick card-board in place of wood if such a change is found to be desirable, and when the corners are firmly joined together by any suitable adhesive composition the triangular corner caps or protectors may be dispensed with. This form of construction produces an article that is cheap, light, durable, and noiseless, possessing all the advantages of the ordinary slate and none of the objectionable features.

The modification illustrated in Fig. 3 of the drawings shows a tablet consisting of a number of leaves provided with covers and made up in book form. These leaves are finished with the composition in the same manner and by the same process employed in the manufacture of the slates.

The process and composition used in the preparation of the writing-surface are as follows: For black slates I first take one pint of silicate and one pint of bone-black to one and one-half pint of water, mixing the same thoroughly, and then running it through a grinding-mill. This mixture is then applied to the outside surface of the press-board by means of a soft brush. Each sheet of board should have two or three coats of this mixture, and should be sandpapered after each application. The writing-surface is finally finished by being varnished with a composition of gutta-percha and carbon, equal parts, to which are added three parts water and one part liquid silicate. This finishing composition should be first filtered before being used.

In preparing white writing-surfaces the bone-black should be omitted; or any colored slate may be produced by simply using paper or press board of the desired color.

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

1. An improved process in the manufacture of slates, which consists of applying to the surface of press-board or other suitable material a composition of silicate, bone-black, and water in the proportions given, one or more coats being applied to form the writing-surface, which is sandpapered after the application of each coat, and finally finished by being varnished with a composition consisting of gutta-percha, carbon, and liquid silicate, equal parts, and water three parts, substantially as set forth.

2. As a new article of manufacture, a slate or writing-tablet prepared by the process herein described.

ROBERT G. WINSLOW.

Witnesses:

L. M. FREEMAN,

L. B. COUPLAND.