

(No Model.)

W. D. HEYER.

SCHOOL SLATE.

No. 297,996.

Patented May 6, 1884.

Fig. 1.

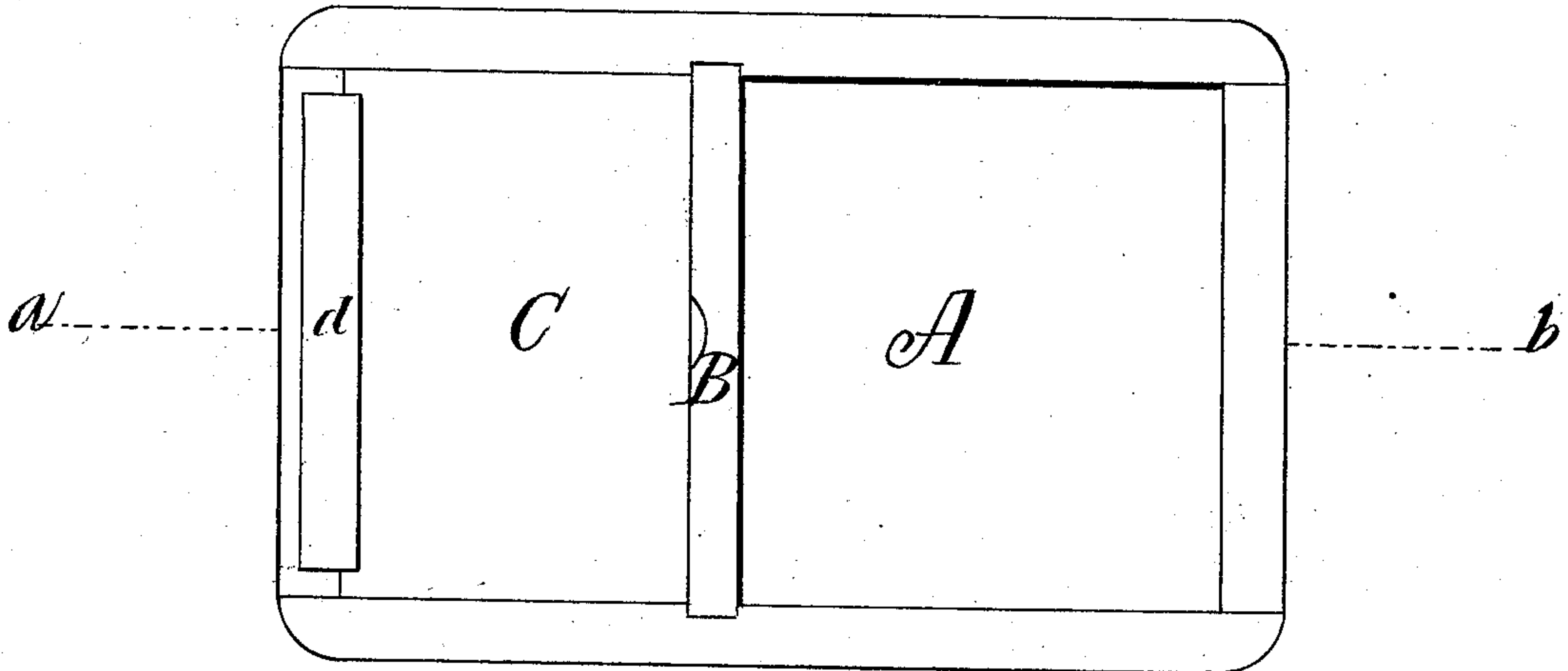
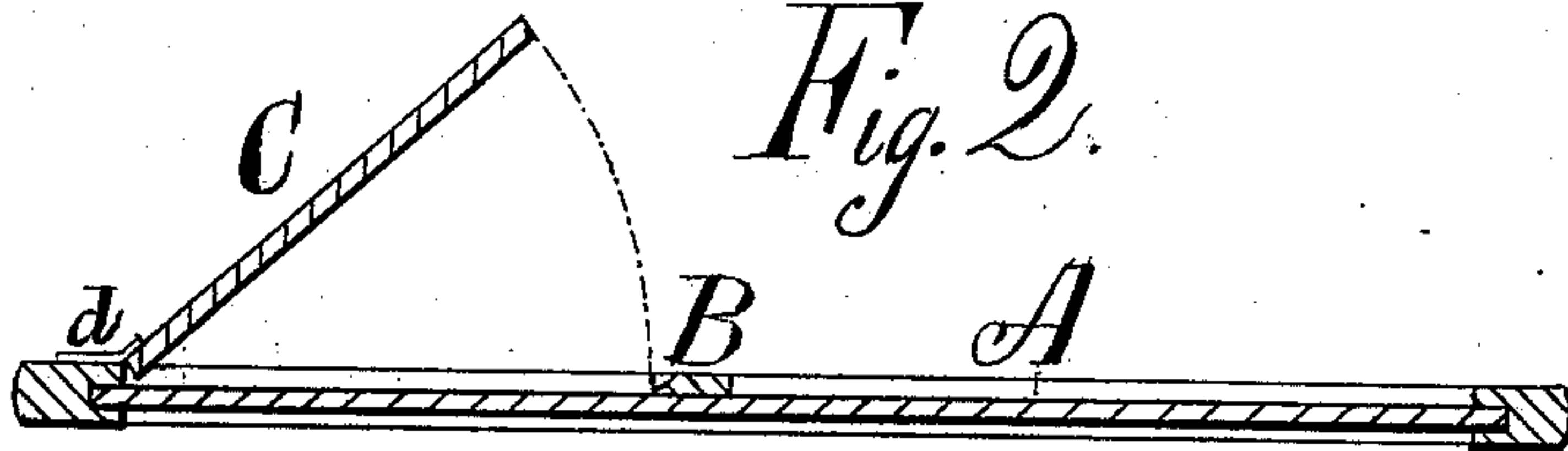


Fig. 2.



Witnesses:

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SCHOOL-SLATE.

SPECIFICATION forming part of Letters Patent No. 297,996, dated May 6, 1884.

Application filed September 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. HEYER, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented a new and useful Tracing School-Slate, of which the following is a specification.

My invention consists in combining a piece of ground glass with an ordinary slate in such a manner that drawings or written copies made upon the slate can be traced upon the ground glass with an ordinary slate-pencil, the white lines made by the slate-pencil being rendered visible by the dark background afforded by the slate. In the same manner printed cards containing designs in white lines upon a black ground may be inserted underneath the glass and traced with a slate-pencil. I attain these results by the means illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the slate with the ground glass lying flat upon the surface; and Fig. 2 is a longitudinal section on the line *a b*, Fig. 1, with the glass raised.

Similar letters refer to similar parts in each view.

A, Fig. 1, shows the surface of an ordinary school-slate partitioned into two portions by the strip B. One portion is covered by a rectangular piece of ground glass, C, having its rough surface uppermost, which is fastened to the slate-frame by a flexible hinge, *d*. In Fig. 2 this piece is represented as raised from the slate, to allow of cards being slipped underneath, or drawing or writing being made upon the slate-surface.

I do not limit myself to attaching the glass

to the slate by a hinge, as it may be arranged to slide in a groove, or in any other suitable manner; nor do I limit myself to making the tracing-surface of glass, as any suitable translucent material having a roughened surface may be substituted.

The manner of using my invention is as follows: The ground glass C being raised, as shown in Fig. 2, a drawing or writing copy is made with a slate-pencil upon the portion of the slate lying underneath the glass, or else a black card having a design upon it in white is laid upon the slate-surface. The ground glass is then lowered upon the design, and it may then be traced upon the rough surface of the glass with an ordinary slate-pencil.

I am aware that transparent slates for tracing with lead-pencil have been devised, and have been combined with opaque slates especially constructed for that purpose; but I am not aware that a tracing-slate has been so combined with an ordinary school-slate as to admit of drawings made upon the surface of the school-slate being traced upon the transparent slate with a slate-pencil, thus adapting it for use in primary schools, where the use of a lead-pencil is inconvenient.

What I claim as my invention, and desire to secure by Letters Patent, is—

A school-slate, in combination with a transparent slate hinged thereto, so as to cover or uncover a portion of the opaque slate, substantially as described.

WILLIAM D. HEYER.

Witnesses:

K. M. WARNER,

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