

C. GOLDTHWAIT.  
Slate-Frame Attachment.

No. 200,137.

Patented Feb. 12, 1878.

Fig. 1.

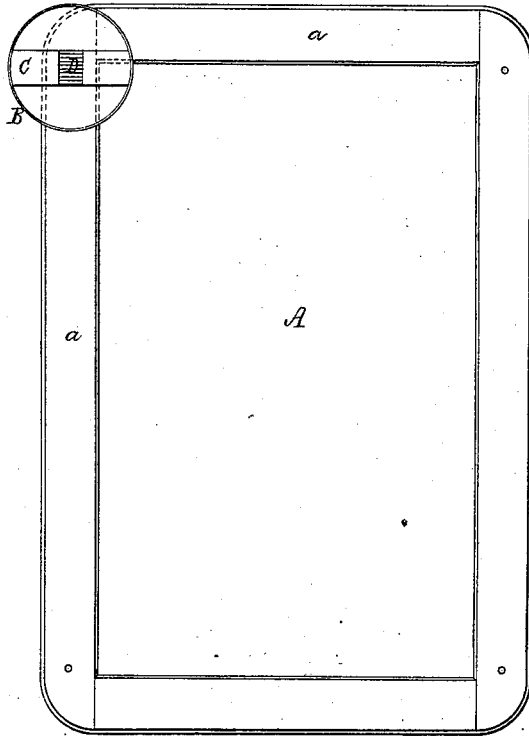


Fig. 2.

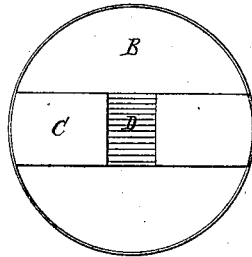


Fig. 3.

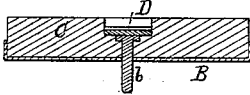
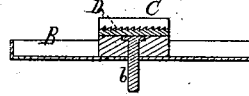


Fig. 4.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SLATE-FRAME ATTACHMENTS.

Specification forming part of Letters Patent No. **200,137**, dated February 12, 1878; application filed January 2, 1878.

*To all whom it may concern:*

Be it known that I, CHARLES GOLDTHWAIT, of South Weymouth, of the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in School-Slates and Pencil-Sharpener therefor; and do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a top view of a school or writing slate provided with a pencil-sharpener in accordance with my invention. Fig. 2 is a top view, and Figs. 3 and 4 transverse sections of the pencil-sharpener, its diametric holding-bar, and dust-receiver.

The object of my invention is to enable a scholar to readily sharpen his slate-pencil without the necessity of using a knife therefor, and to have attached to the slate a convenient means for such purpose; also to have, in conjunction therewith, a receiver or pan to catch or intercept the dust or filings removed from the pencil.

In the drawings, A denotes a common writing-slate; and B, a circular pan, fixed or applied to it at or near one corner of its frame *a*. Extending diametrically across the pan is a flat wooden bar, C, grooved transversely at its middle to receive and hold a metallic plate, D, which is grooved transversely or formed with file-teeth on its upper surface. Extending through the bar C, at its center, is a headed pin or stud, *b*, which goes through the bottom of the pan, and extends below it a short distance, and enters a corresponding hole in

the slate-frame. A screw-thread may be formed on this stud, if desirable. The stud may be fastened at its upper end to the file or plate D; or instead thereof it may be secured directly to the bottom of the pan and extend down therefrom.

The bar may be fitted tightly in the pan, or may be fastened therein in any proper manner. It not only serves to support the toothed plate and to keep it above the bottom of the pan, but, being of wood, it answers to muffle the noise created during and by the process of sharpening the pencil on the toothed plate or file D.

To effect such sharpening, the pencil, held in the hand, is to be moved to and fro on the teeth of the file, the dust or filings dropping into and being caught by the pan. By thus intercepting the dust it will be prevented from getting on the slate or the desk or surrounding objects. Subsequently it may be discharged from the receiver.

I claim as my invention—

1. The combination of the stud *b* with the pencil-sharpener D and the dust-receiver B, as specified.
2. The combination of the slate-frame, the pencil-sharpener D, the stud *b* attached thereto, the diametric bar C, and the dust-receiver B, all being arranged and applied substantially as set forth.

CHARLES GOLDTHWAIT.

Witnesses:

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