

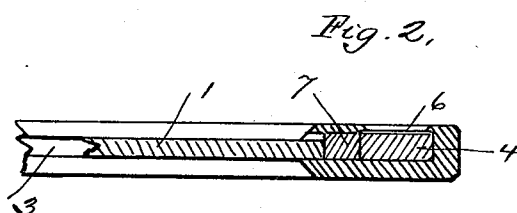
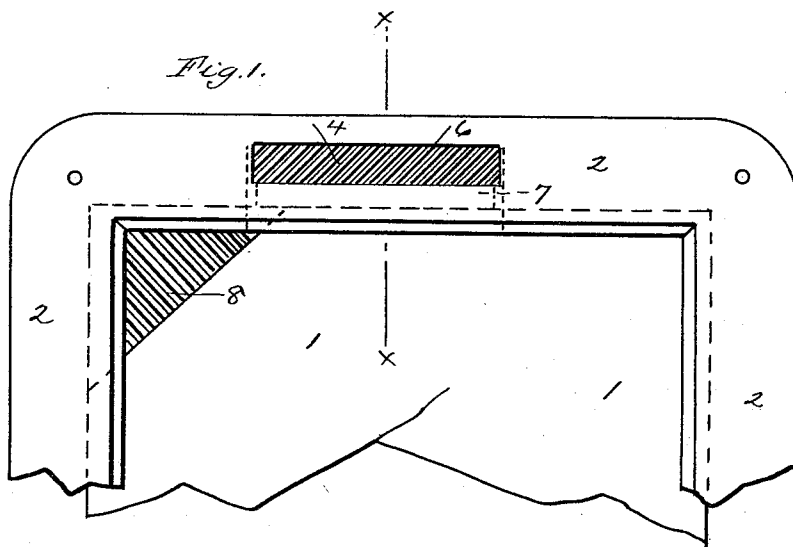
(No Model.)

W. D. BLACK.

PENCIL SHARPENER FOR SCHOOL SLATES.

No. 481,097.

Patented Aug. 16, 1892.



Witnesses:

H. E. Harrison.
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UNITED STATES PATENT OFFICE.

WILLIAM D. BLACK, OF PORT PERRY, PENNSYLVANIA.

PENCIL-SHARPENER FOR SCHOOL-SLATES.

SPECIFICATION forming part of Letters Patent No. 481,097, dated August 16, 1892.

Application filed September 10, 1891. Serial No. 405,337. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. BLACK, a citizen of the United States, residing at Port Perry, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Pencil-Sharpener for School-Slates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved pencil-sharpener for school-slates; and it consists in a small flat file set into the frame of the slate in a manner that slate-pencils may be ground or sharpened, and also to provide a means for deadening the sound, together with certain details of construction, as will be fully set forth hereinafter.

In the accompanying drawings, Figure 1 is a face view of an ordinary slate having my improved pencil-sharpener inserted in the frame thereof. Fig. 2 is a sectional elevation of the same, taken on the line X X of Fig. 1.

To put my invention into practice with an ordinary school-slate 1, such as are now in common use, I form in the frame 2 of the same, at any desired position, a deep groove in line with the groove 3, which holds the slate 1 in the frame. This groove is for the purpose of confining therein a small file 4, the surface of which is exposed through an oblong opening 6, formed in the top of the frame 1. Between the edge of this file 4 and the edge of the slate 1 is a piece of rubber 7 or other sound-deadening substance.

At the upper left-hand corner of the slate 40 I have shown a modification of my improved

pencil-sharpener, which consists in a triangular-shaped file 8, set into the frame of the slate in the same manner as the slate proper.

It will be observed that the deep groove is approximately the size of the file and sound-deadener combined and that the opening 6 is of less length and width than said file, the latter thus being set beneath instead of flush with the face of the slate-frame, so that it cannot come in contact with, and therefore cannot mar or damage, the desk if inadvertently or accidentally placed face downward thereon, and this construction also obviates the necessity for employing glue, cement, or other like substances for securing the file in place, and provides a much more secure and reliable means of holding said file in place than glue, cement, or other like substance.

Having thus described my invention, I claim—

The combination, with the slate, the frame of which has a deep groove in line with the groove receiving the edge of the slate proper, said frame also having an opening leading from its face to said groove, of a file set in said deep groove and having its upper roughened surface exposed through said opening, said file being of greater length and width than said groove, and a sound-deadening substance interposed between said file and slate proper, substantially as shown and described.

In testimony that I claim the foregoing I hereunto affix my signature this 21st day of July, A. D. 1891.

WILLIAM D. BLACK. [L. S.]

In presence of—

P. B. REILLY,
M. E. HARRISON.