(No Model.)

E. L. KRANS.

SLATE MUFFLER.

No. 473,120. Patented Apr. 19, 1892.

Fig. 1.

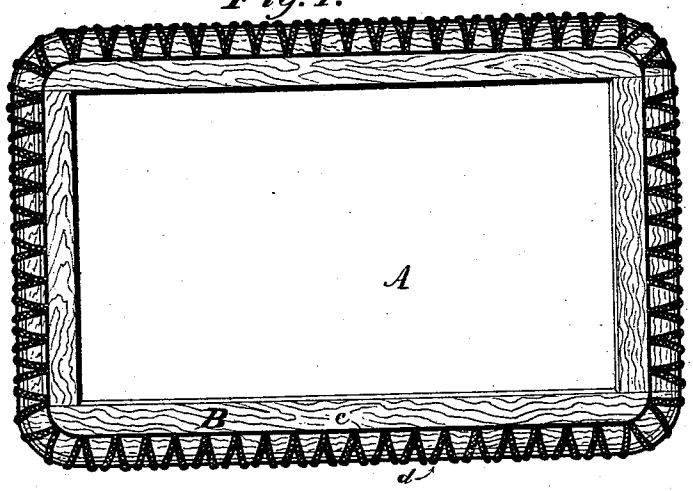
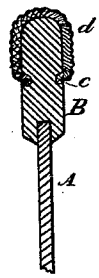


Fig. 2.

Fig. 3.



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EDWARD L. KRANS, OF SLATINGTON, PENNSYLVANIA.

SLATE-MUFFLER.

SPECIFICATION forming part of Letters Patent No. 473,120, dated April 19, 1892.

Application filed February 24, 1891. Serial No. 382,542. (No model.)

To all whom it may concern:

Be it known that I, EDWARD L. KRANS, a citizen of the United States, residing in the borough of Slatington, in the county of Lehigh and State of Pennsylvania, have invented a new and useful School-Slate, of which the following is a specification.

This invention is an improvement in muffling devices for school-slate and other frames; and it consists, essentially, in a thick muffling-cord bent first into a series of zigzags or return-bends and then laid around the edge of slate-frame and bent thereover, so that its bends are turned over and embrace the edge of the frame, and are respectively secured to the frame by compressing or forcing the extremities of the bends into grooves or notches previously formed in the sides of frame, all of which will be clearly understood from the following description and claims.

Referring to the drawings by letters, Figure 1 represents a face view of a slate and frame having my improved muffler applied. Fig. 2 is a detail view of a portion of the muffling-cord ready for attachment to slate. Fig. 3 is a transverse detail section through the frame.

A represents the slate; B, the frame, which, as shown, has grooves *c* in its side faces parallel with the edge thereof.

d designates the muffling-cord, which is thick and stout and of suitable material to cushion the edge of frame when applied thereto, being preferably formed with a wire core *e*, which will cause it to hold its shape better when bent, as in Fig. 2, and when the bends are turned over the edge of frame, as shown in Fig. 3, which tend to bind or clasp the edge of frame, particularly when the cord is compressed thereon. After the cord-bends are bent over the edge of frame, as shown, the extremities of the bends are forced down into groove *c* or suitable recesses properly formed in the frame, and are thereby retained on the frame, and can be further secured by compressing the frame, so as to close the groove, or by filling the groove or recesses with a cement or other filling. The bends of the cord crossing and overlying the edge of frame present a series of buffing-surfaces, which will render the frame noiseless, and as each bend is independently connected to the frame even if one breaks off the others are still fast, so that the durability of the frame is increased, particularly as the groove or recess does not extend through the frame.

I am aware that buffing strips or cords have been applied to frames and that such strips have been secured by lacing-cords either through openings in the frame or by catching the cord back and forth on hooks in the opposite faces of frame. Such I do not claim, as I employ a thick buffing-cord which is bent into a series of return-bends, each one of which is independently secured over the edge of frame and to the opposite sides thereof. The employment of a filling of cement or other material to secure the bends in the recesses in which they are embedded renders it unnecessary to use a cord having a wire core, so that the invention is not limited to such a cord.

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

1. A slate-frame provided with a muffler consisting of a zigzag cord, the bends of which are embedded in the frame and secured by a filling, substantially as specified.

2. A slate-frame provided with a muffler consisting of a zigzag cord provided with a wire core and having its bends embedded in the frame and secured by a filling, substantially as specified.

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