

(No Model.)

J. RIDGE.

MUFFLER FOR SCHOOL SLATES.

No. 294,154.

Patented Feb. 26, 1884.

Fig. 1.

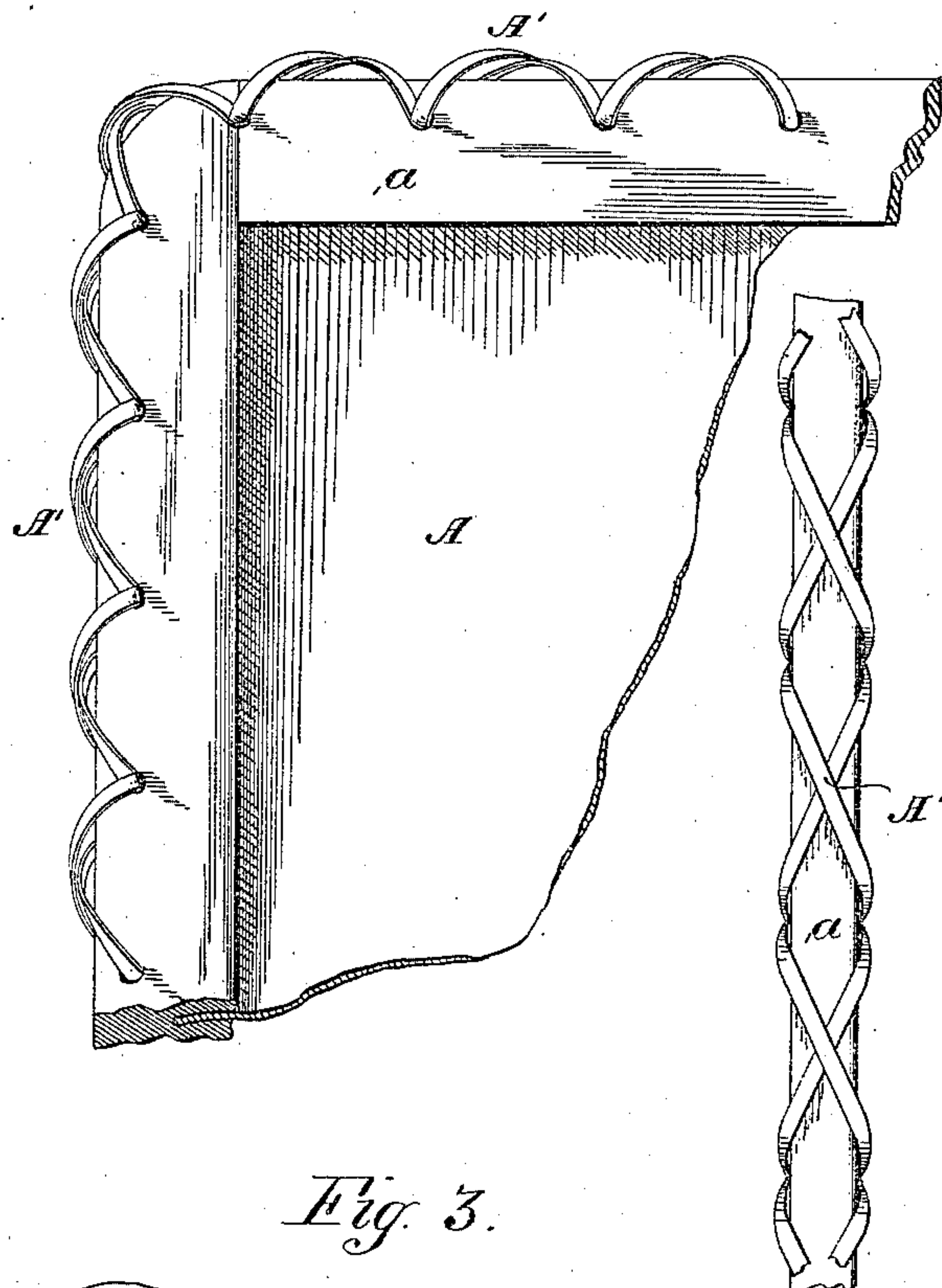


Fig. 2.

Fig. 3.

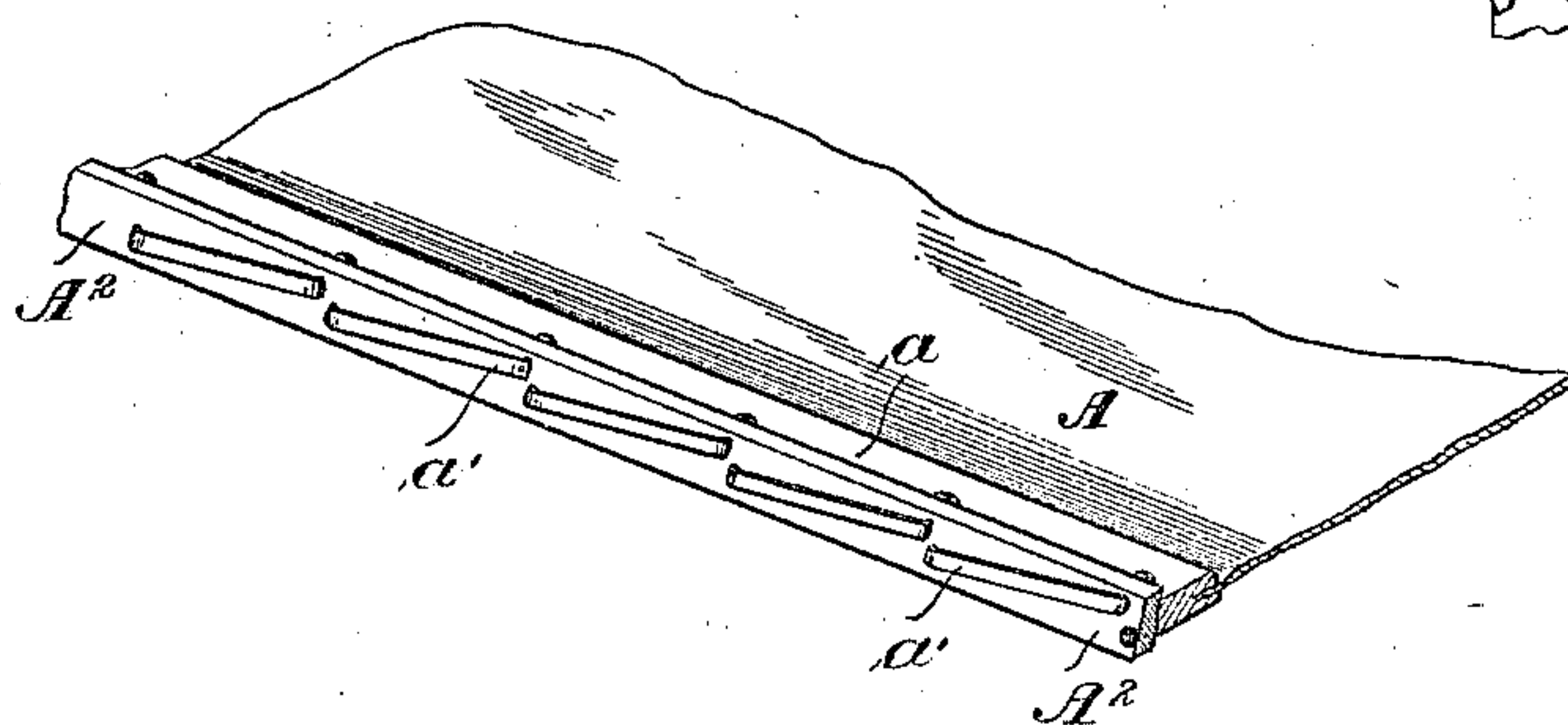
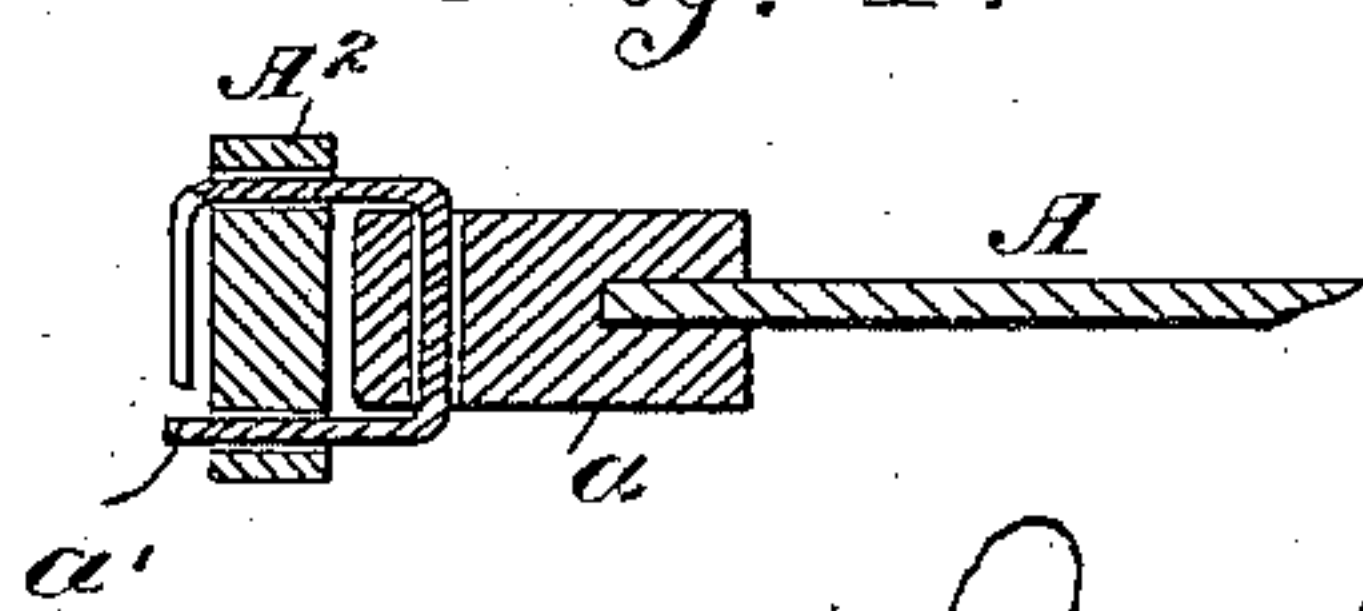


Fig. 4.



WITNESSES—

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JOSEPH RIDGE, OF CHICAGO, ILLINOIS, ASSIGNOR TO JOHN H. BEERS, OF
SAME PLACE.

MUFFLER FOR SCHOOL-SLATES.

SPECIFICATION forming part of Letters Patent No. 294,154, dated February 26, 1884.

Application filed November 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH RIDGE, of Chicago, county of Cook, and State of Illinois, have invented new and useful Improvements in Mufflers for School-Slates, of which the following is a full and complete description, reference being had to the accompanying drawings.

My invention relates to a radical change in the material used for muffling slates. Heretofore it has been the custom to rely upon soft articles—such as rubber or a textile material—in which the compressible nature of the material itself affords the properties that serve to deaden the sound. The objection to such material is the cost and lack of durability. To obviate these objections I have substituted a spring—that is, a hard substance whose flexible elasticity relieves the solid and noise-producing contact of an unmuffled slate. In the present example the material employed is strips of rattan, or, rather, what is known as “cane,” being the same as used in the manufacture of chairs and other furniture, which is, perhaps, less expensive, considering its qualities, than anything else, though wire or a wooden or metallic splint or ribbon can be used. I also show in the drawings a modification of what I consider the preferable plan of muffling, in which a wooden strip is laced to the outer edge of the slate-frame in such a manner as to establish a flexible connection between the latter and said strip, in which I have used the cane as a lacing material, though a textile cord or other fabric may serve the same purpose.

In the drawings, Figure 1 is a side view of a section of a slate with my improvement attached. Fig. 2 is an edge view of the same. Fig. 3 represents a section of slate with the strip modification attached, and Fig. 4 is a transverse section of Fig. 3.

A represents the slate proper, and *a* the slate-frame.

A' is the muffling-spring.

A² represents the strip used in the modified form; *a'*, the lacing-strip for same.

The frame *a* is perforated at intervals throughout its length, through which the strip A' is spirally laced in such manner as to bow over the edge of the frame—that is, stand out from the frame. In this example the strip is returned, and the same process repeated in the opposite direction, which latter adds to the effectiveness and appearance of the muffler, the perforations in the frame being of sufficient size to readily admit the two strips. The bows formed over the edge of the frame, in consequence of the springy nature of strips A', serve to produce the desired result as a muffler. The border piece or strip A² has a width sufficiently greater than the thickness of frame *a* to project on each side of the latter. Strip A² is perforated, as shown, through which the strip of cane, *a'*, is inserted, for the purpose of securing said strip A² to the slate-frame. The latter is perforated, as in Fig. 1, through which the strip *a'* is laced, successively, with the perforation in strip A², thus securing the latter to frame *a*. Sufficient play is allowed between frame *a* and strip A² to admit of the required flexibility.

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

In combination with slate A and frame *a*, the flexibly-elastic spring-muffler, substantially as described, and for the purpose specified.

JOSEPH RIDGE.

Witnesses:

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