

J. HIBNER.
Slate.

No. 214,567.

Patented April 22, 1879.

Fig 1

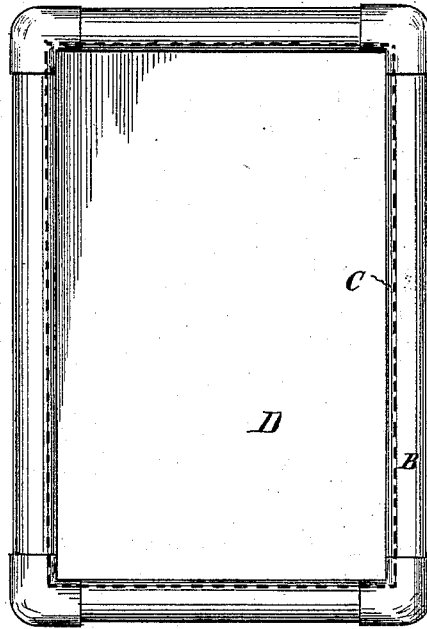
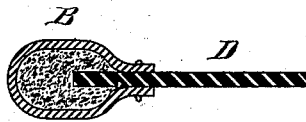


Fig 2



WITNESSES:

W. H. Cory
J. R. Atwoods

Joseph Hibner INVENTOR

by James H. See,

ATTORNEY

UNITED STATES PATENT OFFICE.

JOSEPH HIBNER, OF HAMILTON, OHIO, ASSIGNOR OF ONE-THIRD HIS RIGHT
TO HENRY A. WALKE, OF SAME PLACE.

IMPROVEMENT IN SLATES.

Specification forming part of Letters Patent No. **214,567**, dated April 22, 1879; application filed
February 1, 1879.

To all whom it may concern:

Be it known that I, JOSEPH HIBNER, of Hamilton, Butler county, Ohio, have invented a new and useful Improvement in Noiseless Slates, of which the following is a specification.

This invention relates to that class of slates which are so protected by elastic material as to prevent excessive noise being produced by reason of their movements.

Noiseless slates have been produced in great variety. The plans adopted have consisted of corner-pieces of rubber, &c., glued or tacked upon the wooden frames; of elastic projecting borders for the wooden frames; of elastic jackets surrounding the wooden frames; of heavy cord stitches projecting from the general surface of the wooden frames; and of heavy cord stitched through holes in a frameless slate, and projecting from its general surface.

The objection to most of the devices has been that the noiseless feature has been produced at a cost which must be in addition to the cost of the common-framed slate. In the frameless plan above referred to, the edges of the slate were not rendered noiseless, and were not in any way re-enforced to compensate for the absence of frame.

The object of my invention is to provide a slate with a veritable noiseless frame, whose efficiency shall be no less, and whose cost shall be no more, than a framed slate without noiseless features.

My invention consists of a slate with a frame composed of an elastic fabric stuffed with a soft or elastic substance, and fastened directly to the tablet of the slate, none of the usual wooden or metallic framing being used.

In the accompanying drawings, Figure 1 is a plan of my improved slate, and Fig. 2 a transverse section at the margin.

In Fig. 2, D is the slate, and B is the frame.

The frame B consists of a fabric placed around the edge of the slate, as shown, and fixed by glue or stitching, or both.

In both the figures stitching C is shown, which passes through the fabric of the frame and through the slate. This stitching may be done with wire or thread.

The fabric of which the outside of the frame is made may be of any kind of soft elastic stuff, and may be of uniform thickness, or it may be of stuff woven thinner at the edges. The stuffing may be of hair or wool, or other soft material.

In practice I prefer a heavy fabric woven in strips of excessive thickness at the center of the strip, so as to give the greatest amount of cushioning substance at the edge of the slate.

Instead of a woven fabric, a molded fabric of sufficient elasticity may be used—india-rubber, for instance.

The fabric may be in a single piece, and have a single joint in its length; or it may be in separate pieces and its ends covered by corner-pieces of cloth, leather, or rubber, as shown. I prefer the latter plan, as it presents the most cushioning substance at the points most subject to contact.

These slates may be hinged in pairs, as is often done with ordinary slates.

If desired, pencil-pockets may be sewed upon the frame in any convenient position and manner.

I claim as my invention—

A noiseless slate whose frame is composed of an elastic fabric stuffed with an elastic substance, and attached to the slate by glue or stitches, or both, substantially as described.

JOSEPH HIBNER.

Witnesses:

W. N. GRAY,
J. W. SEE.