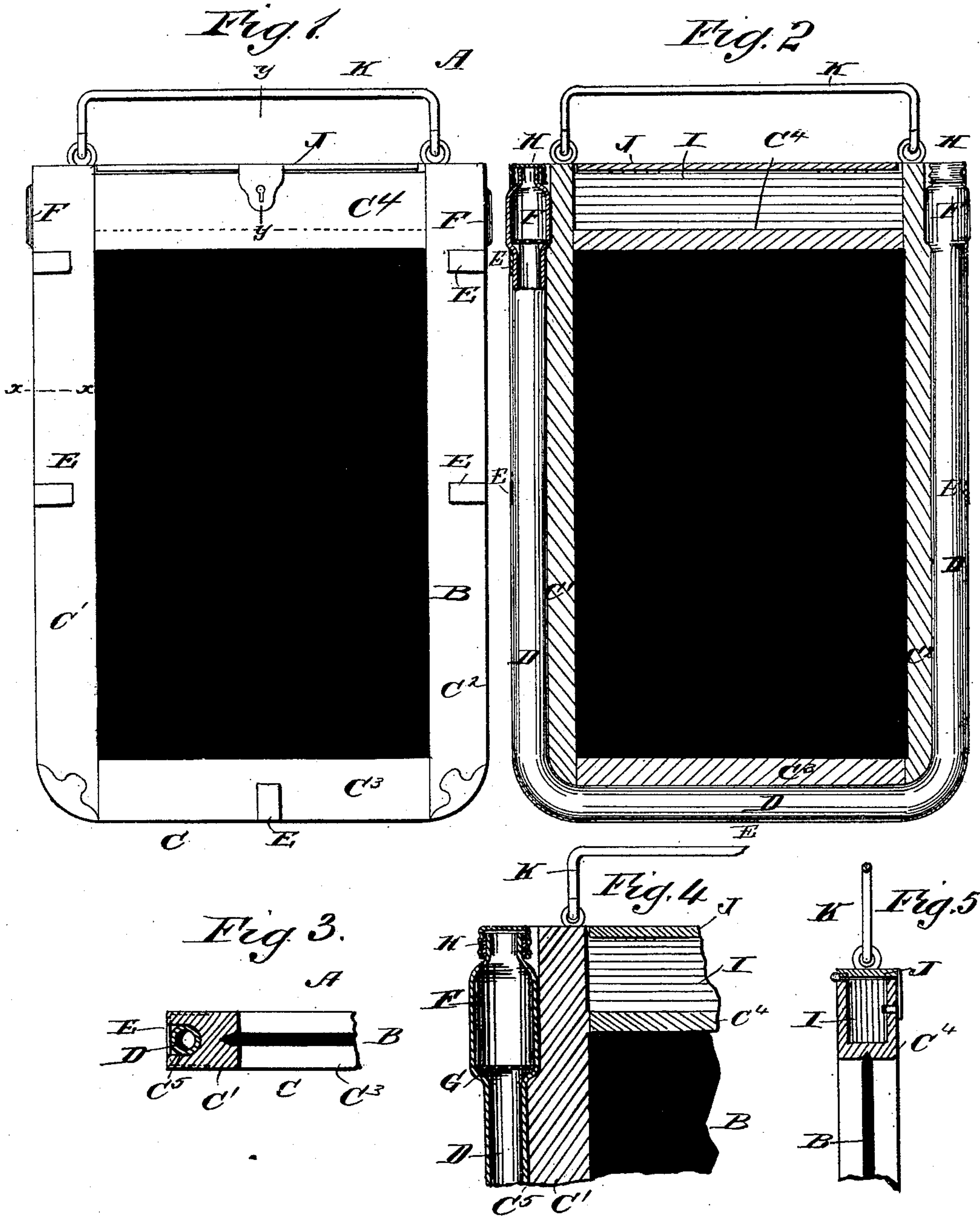


(No Model.)

E. C. HUDSON.  
SLATE.

No. 446,777.

Patented Feb. 17, 1891.



WITNESSES:  
*F. M. Arde*  
*C. Sedgwick*

INVENTOR:  
*E. C. Hudson*  
BY *Munn & Co*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

EMMA C. HUDSON, OF SEATTLE, WASHINGTON.

## SLATE.

SPECIFICATION forming part of Letters Patent No. 446,777, dated February 17, 1891.

Application filed March 25, 1890. Serial No. 345,235. (No model.)

*To all whom it may concern:*

Be it known that I, EMMA C. HUDSON, of Seattle, in the county of King and State of Washington, have invented a new and Improved Slate, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved school-slate which is simple and durable in construction and adapted to contain water and sponges to facilitate the cleaning of the slate whenever desired.

The invention consists of a tube held in the slate-frame and adapted to be filled with water.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front view of the improvement. Fig. 2 is a sectional front view of the same. Fig. 3 is a sectional plan view of parts of the same on the line *xx* of Fig. 1. Fig. 4 is an enlarged sectional front view of one upper corner of the slate, and Fig. 5 is a sectional end view of part of the improvement on the line *yy* of Fig. 1.

The improved school-slate A is provided with the usual slate proper B, held in the frame C, composed of the usual sides C' C<sup>2</sup>, the bottom C<sup>3</sup>, and the top C<sup>4</sup>. In the outer edges of the two sides C' and C<sup>2</sup> and in the bottom C<sup>3</sup> are formed grooves C<sup>5</sup>, into which is fitted a U-shaped tube D, held in place by suitable fastenings E, preferably U-shaped staples, secured to the respective sides and bottom of the slate-frame C. The ends of the tube D terminate in line with the upper end of the slate proper B, and each end of the tube is formed into a sponge-receptacle F, having a perforated bottom G and provided with a cap H for closing the mouth of the said sponge-receptacle F. The latter is adapted to contain a sponge for wiping the slate, and preferably of a construction shown and described in the application for Letters Patent, Serial No. 345,234, filed of even date here-

with. The sponge is preferably secured by its neck to the cap H, so that in unscrewing the cap the sponge can be readily removed to be used for wiping the slate.

When the cap H is screwed or otherwise fastened on the mouth of the sponge-receptacle F, its top is even with the top edge of the top C<sup>4</sup> of the frame, as is plainly shown in the drawings. The grooves C<sup>5</sup> in the sides and bottom of the slate are made sufficiently deep for the reception of the tube D, so that the latter does not project beyond the outer edge of the said sides and bottom, as is plainly shown in Fig. 3. The tube D may be made of rubber, metal, or other suitable material, and is filled with water through one of the sponge-receptacles F, the cap of the latter having been previously removed. When the tube D is filled with water, sponges are placed in the receptacles F, and then the caps are screwed on the mouths of the said receptacles, so that the water is confined in the tube D, and when the slate is laid down it can pass through the perforated bottoms G to the sponges in the receptacles F to saturate the said sponges.

When the operator desires to use one of the sponges, the slate is held in a vertical position, the respective cap H is removed, and the sponge is taken out of the receptacle by a pencil or other suitable means and used in wiping the slate in the ordinary manner. When through using the sponge, the latter is replaced in the respective receptacle H and the cap is secured on the mouth of the receptacle.

In the top C<sup>4</sup> of the slate-frame C is arranged a box I, having a lid J and adapted to receive slate-pencils or other writing material used for writing on the slate. A handle K is also pivoted to the top C<sup>4</sup> of the slate-frame for conveniently carrying the slate or hanging the same up on a nail.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a slate, the combination, with a slate-frame provided with grooves in the outer edges of its sides and bottom, of a V-shaped tube fitted into the said grooves and adapted



to be filled with water, substantially as shown and described.

2. In a slate, a tube secured in the slate-frame, adapted to be filled with water, and provided at its ends with sponge-receptacles communicating with the tube, substantially as shown and described.

3. In a slate, a tube adapted to be secured in the slate-frame and adapted to be filled with water, sponge-receptacles formed at the ends of the said tube and communicating therewith, and a cap for closing the mouth of each of the said receptacles, substantially as shown and described.

4. In a slate, a tube adapted to be secured in the slate-frame and adapted to be filled with water, sponge-receptacles formed at the ends of the said tube, a cap for closing the mouth of each of the said receptacles, and a perforated bottom held in each of the said receptacles, substantially as shown and described.

5. In a slate, the combination, with a slate-frame provided in the outer edges of its sides and bottom with grooves, of a tube fitted in

the said grooves, a sponge-receptacle formed at each end of the said tube and communicating therewith, and a cap for closing the said sponge-receptacle, substantially as shown and described.

6. In a slate, the combination, with a slate-frame provided in the outer edges of its sides and bottom with grooves, of a tube fitted in the said grooves, a sponge-receptacle formed at each end of the said tube, a cap for closing the said sponge-receptacle, and a perforated bottom held in the said sponge-receptacle, substantially as shown and described.

7. As a new article of manufacture, a slate provided with a tube embedded in the sides and bottom of its frame, said tube being provided with sponge-holders, a box or compartment in the top of the frame and having a lid, and a handle pivoted to the said top, as set forth.

EMMA C. HUDSON.

Witnesses:

M. E. J. FOLEY,

J. S. WHEELER.