E. ALLEN.

Arithmetical Table.

No. 6,407. Patented May 1, 1849.

Fig. 1.

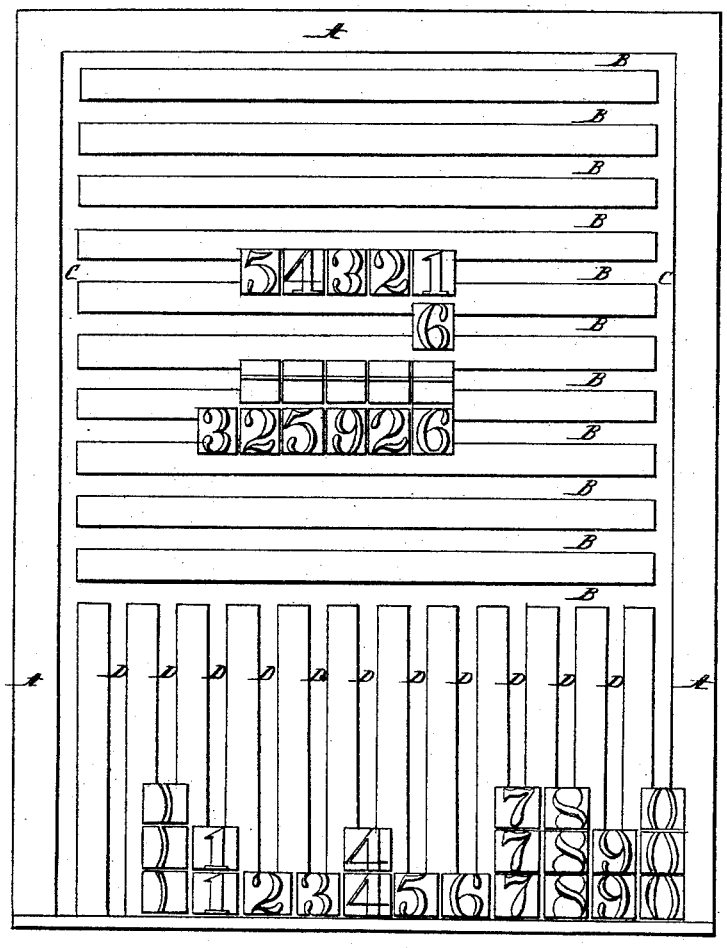

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

UNITED STATES PATENT OFFICE.

EDWIN ALLEN, OF WINDHAM, CONNECTICUT.

EDUCATION-TABLE.

Specification of Letters Patent No. 6,407, dated May 1, 1849.

To all whom it may concern:

Be it known that I, EDWIN ALLEN, of Windham, Windham county, State of Connecticut, have invented a new and Improved Education-Table; and I do hereby declare the following to be a full and exact description.

The nature of my invention consists in the taking of any piece of hard board or other stuff, of suitable size and thickness and making grooves or channels in any required number, in or on its face and running in any required direction; the same being of any required size and shape, to receive the sliding types, which are made of solid blocks, with buttons on their lower ends for sliding or moving within the grooves or channels, and preventing their being lost or getting out of the table.

But to describe my invention more particularly I will refer to the accompanying drawings, the same letters in the several drawings having reference to the same parts wherever they occur.

Figures 1, 2, 3, 4 and 5, perspective and sectional views of the table and type, of one of the tables as proposed to be made, the mode of making them always being the same.

Letters A, A, &c., is a representation of the table board, having eleven channels, or grooves B, B, &c., cut crossways in or on its face, and ending in the marginal channels *c*, *c'*, of like form, for the purpose of allowing the types F &c., to be moved or distributed up and down the table, from the "font," or perpendicular channels D, D, &c., at the base of the table.

These channels are about three-eighths of an inch deep, (though this precise depth, nor the particular number of channels as herein specified, nor arrangement of them is material to the invention,) and are cut under in the shape of a T, so that the buttons on the lower ends of the types, cannot get out of the channels when once arranged in them. In these channels are arranged any required number of types, by the removal of strip E, from the lower end of the board; when filled, the strip is again replaced, and the types, which are made from solid blocks, with buttons turned or cut on their lower ends, are then ready for use. The operation of which is, that, when the types are classified, in the "font," or channels D, D, &c., say for instance, as in the present drawing from left to right, according to numerical order, then to perform the problem on the board, 1, is moved from the channel D', into the cross channel B', then into the left hand marginal channel *c*, to the cross channel B', where it is stationed; after which 2, 3, 4, &c., are moved in the order in which they are arranged, from their respective channels, till the problem is solved, or when the alphabet is used to spell the word, &c., required.

Having now described my invention I will proceed to state what I claim, and desire to secure by Letters Patent is—

The manner in which I make my education tables substantially as set forth, of two sets or series of grooves, one for the font, the other for the operations of calculation in combination with sliding types, the groves and types so constructed as to prevent the types from being lifted or falling out, and the grooves so arranged that the types may pass by each other as set forth.

EDWIN ALLEN.

Witnesses:

BITHEAH WATTLES,

JOHN WATTLES.