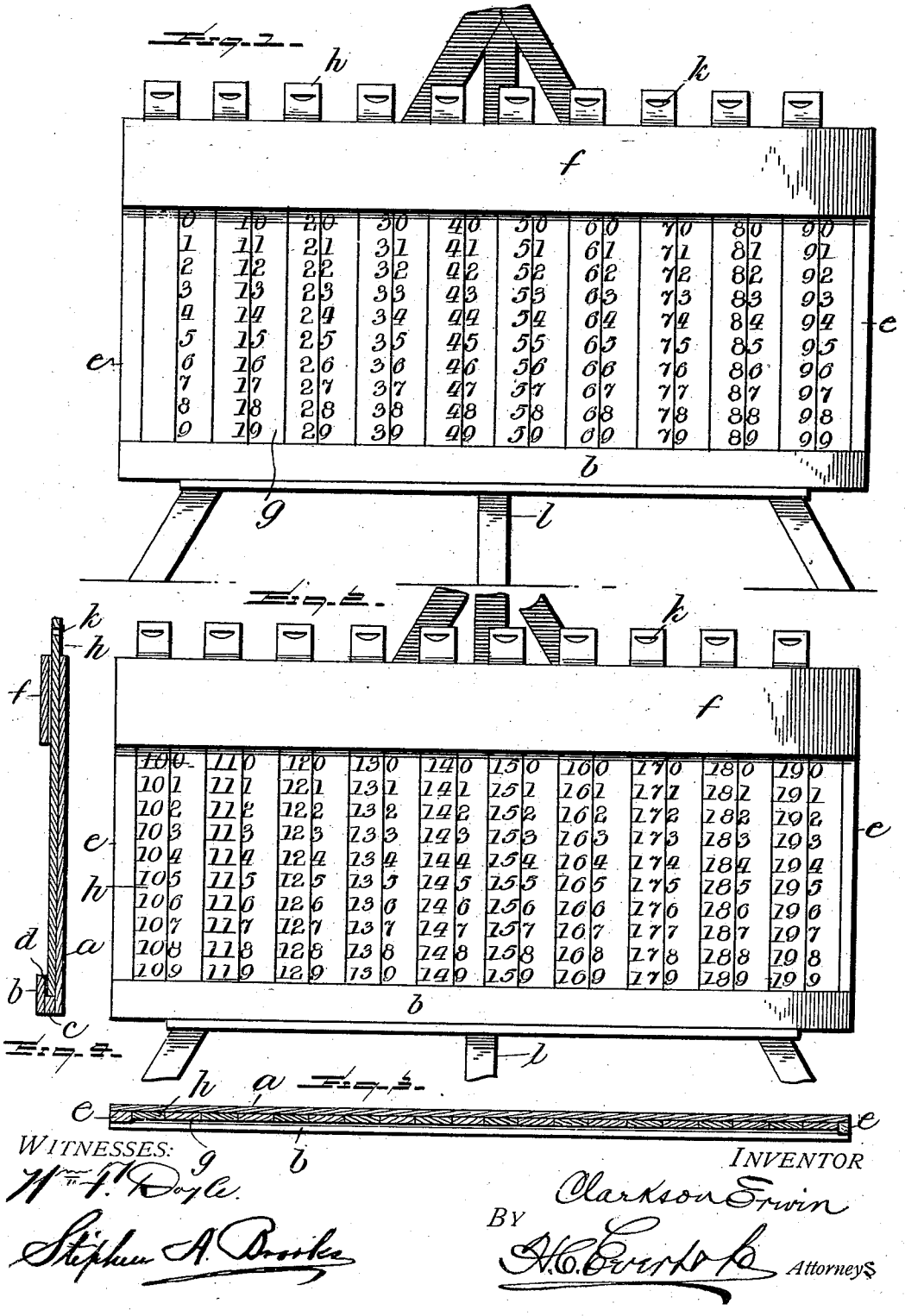
No. 711,486. Patented Oct. 21, 1902.

C. ERWIN.

EDUCATIONAL DEVICE.

(Application filed June 9, 1902.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

CLARKSON ERWIN, OF INGALLS, OKLAHOMA TERRITORY.

EDUCATIONAL DEVICE.

SPECIFICATION forming part of Letters Patent No. 711,486, dated October 21, 1902.

Application filed June 9, 1902. Serial No. 110,808. (No model.)

To all whom it may concern:

Be it known that I, CLARKSON ERWIN, a citizen of the United States of America, residing at Ingalls, in the county of Payne and Territory of Oklahoma, have invented certain new and useful Improvements in Educational Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in educational appliances, and has for its object to provide a simple, cheap, and effective device for the teaching of numbers in a manner that the student may readily and more easily grasp and understand the proportional values and to this end to provide a device having changeable strips bearing numbers and stationary strips bearing numerals, the two strips when placed side by side in alinement showing numerals in succession. The movable or changeable strips are numbered consecutively on both sides, so that when reversed from the position in which they represent numerals from "0" to "99" they will represent numerals from "100" to "199," or the device may be arranged to represent numerals higher than those shown in the accompanying drawings, illustrating a practical form of my invention.

In describing the invention in detail reference will be had to the drawings, wherein like letters will be employed for indicating like parts throughout the several views, in which—

Figure 1 is a front elevation of my improved device, showing same supported on an easel or stand. Fig. 2 is a like view of the same, showing the changeable strips reversed from the position in which they are shown in Fig. 1. Fig. 3 is a transverse vertical sectional view of the device, and Fig. 4 is a longitudinal sectional view thereof.

To put my invention into practice, I provide a back *a* of a suitable length and width, which may be made of wood or other desired material and is of a size according to the extent to which it is desired to show consecutive numerals. Attached to the front face of this back *a* along the lower edge thereof is a facing-strip *b*, there being interposed between the facing-strip *b* and the back *a* a strip *c* of less width than the strip *b* in order to form a longitudinal pocket *d* throughout the length of the back *a* for a purpose as will more readily appear hereinafter. End strips *e* are also secured to the outer face of the back *a* at each end of the latter, and at the upper edge of said back there is secured to said end strips a guide-board *f*, which serves to hold the changeable strips bearing the numerals in position and is preferably constructed of a material that it may be used as a blackboard or the like.

Secured to the back *a* at equal distances are a number of vertical strips *g*, each of which bears a series of consecutively-arranged numbers. These strips are securely fastened, so as to remain stationary with the back, their lower ends lying within the pocket *d* and their upper ends preferably being flush with the upper edge of the board *f* and back *a*. The spaces between these series of stationary strips *g* are adapted to receive a series of removable or changeable strips *h*, each of which bears a series of consecutive numbers—that is, the movable strips—the first strip being numbered, for instance, "10," the next one "11," each one being one number higher than the preceding one. As many of the certain numerals are provided on each of these strips *h* as there are consecutive numbers on the stationary strips *g*. These strips *h* on their reverse sides are numbered in a like manner, so that when reversed and read in connection with the numbers on the stationary strips different numbers appear, the strips when faced in one way being numbered to read from "0" to "99" and when reversed to read from "100" to "199." It will of course be evident that the numbers may be increased by enlarging the device, so as to provide a greater number of stationary and movable strips. At their upper ends the movable strips preferably extend some distance above the back and are provided with notches *k*, forming finger-catches, so that the strips may readily be withdrawn or held to be inserted. When in position the face of the changeable strips is flush with the face of the stationary strips, and the lower ends of the changeable strips are held in the pocket *d* at the lower end of the back.

The device is preferably employed supported on an easel *l* or other suitable support, as shown.

It will be observed that with this device a rapid means of teaching the rotation and value of the ordinals is afforded to the beginner, the strips when in the position shown in Fig. 1 giving the ordinals in rotation from "0" to "99," and when the changeable strips are reversed, as shown in Fig. 2, showing the ordinals in rotation from "100" to "199."

It will of course be evident that in the construction minor details may be changed in the construction without departing from the general spirit of my invention.

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

1. In an educational device, a back, end strips secured to the outer face of said back, a facing-strip secured along the lower edge of said back on the outer face thereof, a guide-board secured to the outer face of the back along the upper edge thereof, stationary strips bearing numerals secured to the back equidistant apart, and removable strips bearing numerals adapted to fit in position between the stationary strips, substantially as described, and for the purpose set forth.

2. In an educational device, a back, strips of unequal width secured along the lower edge thereof forming a pocket, a guide-board secured along the upper edge of the back, stationary strips secured equidistant apart on the outer face of the back and bearing consecutive numerals, and removable strips bearing numerals adapted to fit between the stationary strips, said removable strips being numbered on both sides, and extending above the back, substantially as described, and for the purpose set forth.

In testimony whereof I affix my signature, in the presence of two witnesses, this 3d day of June, 1902.

CLARKSON ERWIN.

Witnesses:
L. N. JEROME,
ARCH WITT.