No. 838,840. PATENTED DEC. 18, 1906.

G. W. CAMPMAN.

EDUCATIONAL DEVICE.

APPLICATION FILED APR. 11, 1906.

Fig. 1.

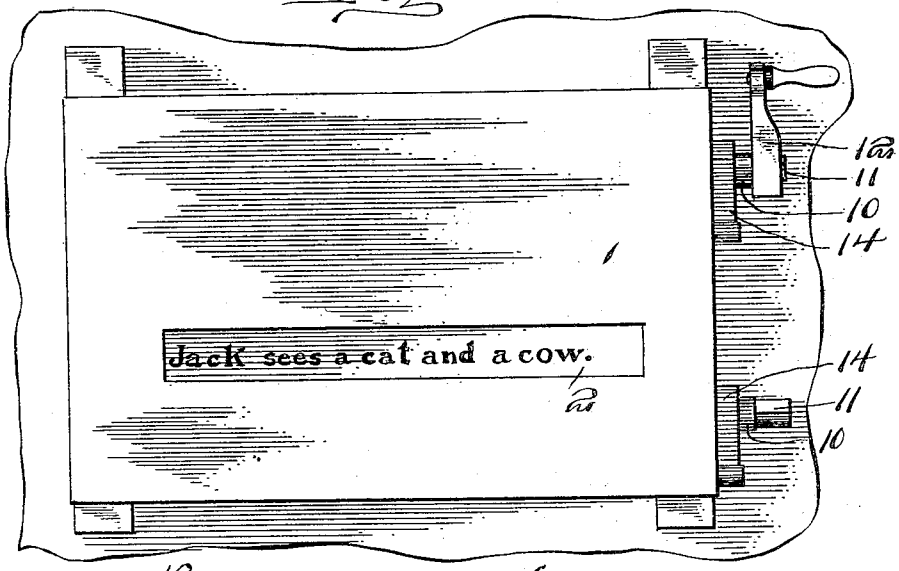


Fig. 2.

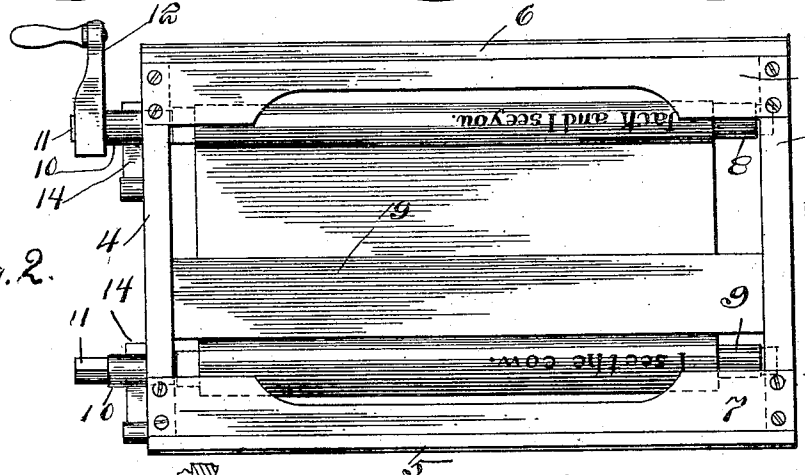


Fig. 5.

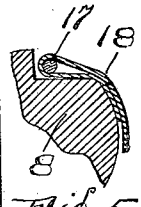


Fig. 3.

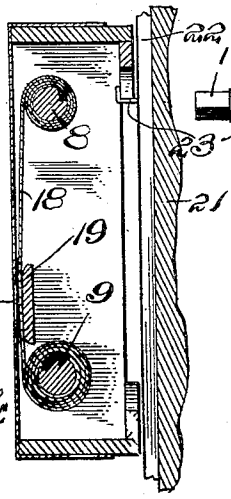


Fig. 4.

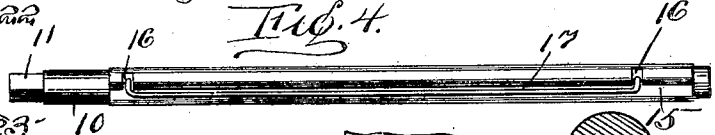


Fig. 6.

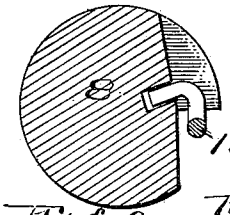


Fig. 7.

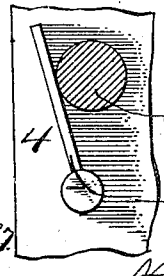


Fig. 8.



Witnesses:
Jesse C. Miller
H. E. Butler

Inventor.
George W. Campman

by A. C. Ewert & Co.

Attorneys.

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE W. CAMPMAN, OF EAST PITTSBURG, PENNSYLVANIA.

EDUCATIONAL DEVICE.

No. 838,840. Specification of Letters Patent. Patented Dec. 18, 1906.

Application filed April 11, 1906. Serial No. 311,125.

To all whom it may concern:

Be it known that I, GEORGE W. CAMPMAN, a citizen of the United States of America, residing at East Pittsburg, in the county of Allegheny and State of Pennsylvania, 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 devices; and the invention has for its primary object to provide a novel form of movable chart particularly adapted for use in the primary departments of schools.

Another object of this invention is to provide an educational device for exposing a variety of sentences one at a time, whereby a pupil or scholar can study and read a single sentence without having his or her attention distracted or confused with associate sentences.

A further object of this invention is to provide an educational device having a movable chart which can be quickly and easily operated, the device being extremely simple in construction, strong and durable, and comparatively inexpensive to manufacture.

With the above and other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed, and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a front elevation of my improved device. Fig. 2 is a detached rear elevation of the same. Fig. 3 is a transverse sectional view of the device. Fig. 4 is a front elevation of one of the rollers used in connection with the device. Fig. 5 is a detail sectional view of a portion of the same. Fig. 6 is a cross-sectional view of one of the rollers. Fig. 7 is an elevation of a portion of one of the end walls of the device, illustrating a spring used in connection therewith. Fig. 8 is a cross-sectional view of a roller, upon a smaller scale, illustrating a slightly-modified form of construction.

To put my invention into practice, I construct my improved educational device of a casing consisting of a front wall 1, having a longitudinally-disposed slot 2 formed therein, end walls 3 and 4, a bottom plate 5, a top plate 6, and rear plates 7 7, said rear plates being arranged at the top and bottom edges of the casing. The end walls 3 and 4, together with the rear plates and top and bottom plates, are preferably constructed of wood, while the front wall 1 thereof is made of metal or fabric, which is mounted upon the top and bottom plate of the casing.

Within the casing are revolubly mounted two rollers 8 and 9, the ends 10 10 of said rollers protruding through the end wall 4 of the casing and being provided with rectangular shank portions 11 to accommodate a crank 12. The end wall 4 adjacent to the rollers 8 and 9 is provided with two springs 14 14, said springs bearing against the ends 10 10 of the rollers 8 and 9 and acting as a tension device or brake to prevent said rollers from rotating except when turned by the crank 12.

Each one of the rollers is slotted longitudinally, as at 15, and adjacent to each end provided with recesses 16 16. In the recesses are mounted the ends of a wire or rod 17, which extends along the slot 15 to form a clamp.

An apron or strip of paper 18 has its ends connected to the rollers 8 and 9, the ends of said apron being held by the wire 17 of each roller. The apron or strip of paper 18 is adapted to wind from one roller to the other, and to support the apron or strip of paper 18 in front of the slot 2 I provide the casing with a transverse guide-plate 19. Upon the apron or strip of paper is printed or otherwise marked a plurality of sentences, as "Jack sees the cat and the cow," this sentence being exposed through the slot 2 of the casing, as illustrated in Fig. 1 of the drawings. Various other sentences are arranged transversely of the apron from one end thereof to the other, and different sentences are exposed one at a time through the slot 2 by rotating either one of the rollers 8 and 9 by means of the crank-handle 12.

In Fig. 8 of the drawings I have illustrated a slightly-modified form of construction of the rollers, these rollers being provided with a transverse slot 20, in which the end of the apron or strip of paper 18 may be inserted and held therein by revolving the roller until the end of the apron is bound thereon. This manner of securing the end of the apron or strip of paper to the rollers dispenses entirely with the recessing of the rollers 8 and 9, also with

the wire 17, used in connection with the same.

In practice any suitable means may be used for supporting the educational device upon a wall, in the present instance I having illustrated a blackboard 21, which is provided with vertically-disposed cleats 22, carrying outwardly-extending hooks 23, said hooks being adapted to engage under one of the rear plates 7 of the educational device and support said device in a vertical position whereby the sentence exposed through the slot 2 can be easily and quickly read.

I am aware of printed charts having been used heretofore; but from experience I have found that when a plurality of sentences are exposed while one sentence is being read or studied the exposed sentences tend to distract a child's attention and prevent the thought of a child from being centered upon one subject, and I have also found that in order that a variety of sentences may be used in connection with a chair that a chart of considerable size is necessary, which is rather cumbersome to handle, soils easily, and is extremely difficult to manipulate while teaching.

My invention aims to obviate the above defect by simply exposing one sentence at a time through the slot 2 of the device, and by using an apron or strip of paper a large number of sentences can be easily printed upon the apron or strip of paper and stored upon the rollers 8 and 9 to be used at any desired time.

In connection with the device a plurality of rollers of aprons or strips of paper are used, each containing a large number of sentences, and since the rollers 8 and 9 are of a small diameter relative to the width of the casing it is possible to use long strips of paper containing a great many sentences. As the ends of the apron or strip of paper are easily and quickly detached from the rollers, it is possible to mount other aprons or strips of paper upon the rollers and move them to display any sentence through the opening of the casing that may be desired. I do not care to confine myself to the number of strips of paper or aprons that may accompany one device, and it is obvious as to the material from which the device is made.

Such changes in the size, proportion, and minor details of construction as are permissible by the appended claim may be resorted to without departing from the spirit and scope of the invention.

What I claim, and desire to secure by Letters Patent, is—

A device of the class described, comprising a frame or casing, the front wall of which is provided with a slot or opening, a guide-plate located within the casing directly in the rear of said slot or opening, rollers journaled in the end walls of the casing, and having one end of each extending beyond the casing and shaped to receive a crank, tension-springs secured to one end wall of the casing and engaging the extending portions of said rollers, each of said rollers being longitudinally grooved for the major portion of its length and having notches adjacent the ends of the grooves and communicating therewith, an apron-securing rod located in the groove of each roller so as to lie inside the periphery of the roller and having inturned ends engaging in said notches, and an apron having its ends secured to the respective rollers by said rods and adapted in being wound from one roller to the other to pass between the front and said guide.

In testimony whereof I affix my signature in the presence of two witnesses.

GEORGE W. CAMPMAN.

Witnesses:
K. H. BUTLER,
E. E. POTTER.