

(No Model.)

2 Sheets—Sheet 1.

A. P. EASTMAN.
SCHOOL, SONG, AND SIGN ROLL.

No. 268,468.

Patented Dec. 5, 1882.

Fig. 1.

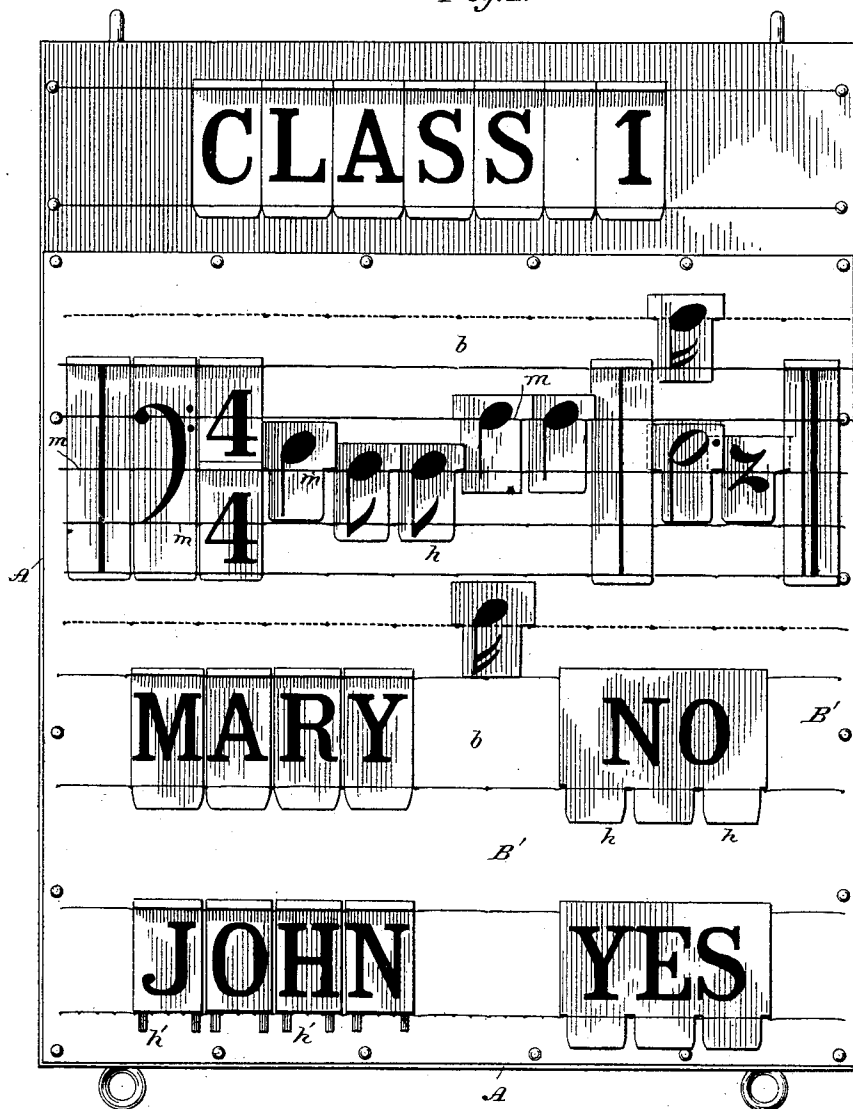


Fig. 2.

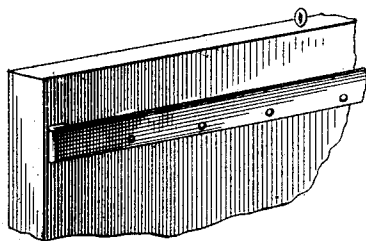
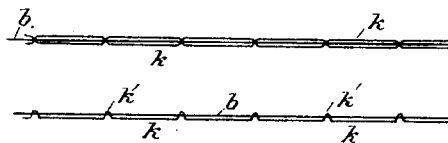


Fig. 3.



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Fig. 4.

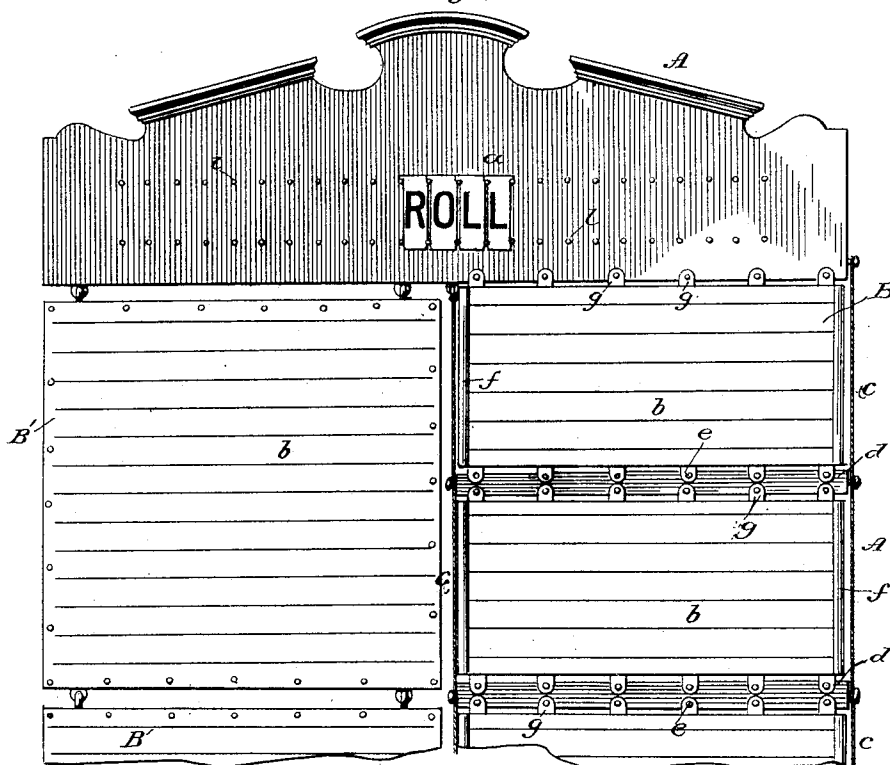


Fig. 5.

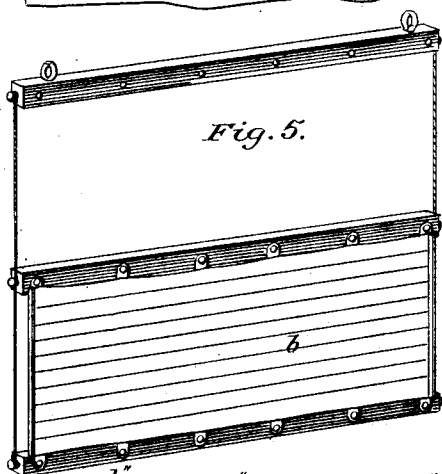


Fig. 6.

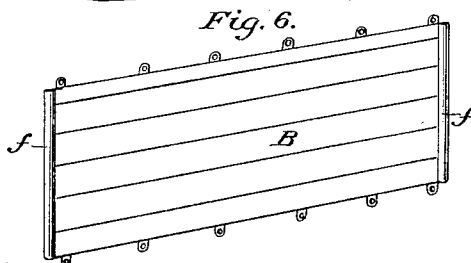
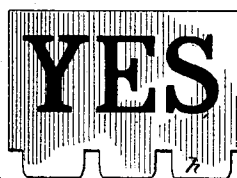
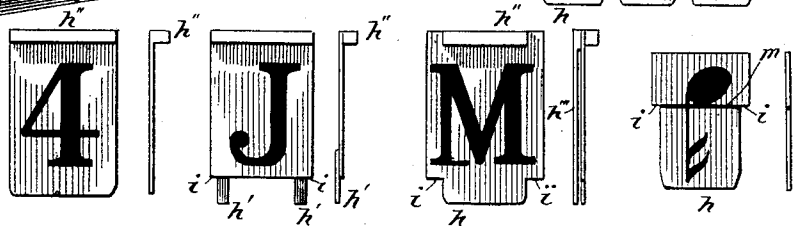


Fig. 7.



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UNITED STATES PATENT OFFICE.

ALBERT P. EASTMAN, OF FALLS CHURCH, VIRGINIA.

SCHOOL, SONG, AND SIGN ROLL.

SPECIFICATION forming part of Letters Patent No. 268,468, dated December 5, 1882.

Application filed January 20, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALBERT P. EASTMAN, of Falls Church, county of Fairfax, State of Virginia, have invented a new and useful School, Song, and Sign Roll; and I do hereby declare that the following is a full, clear, and exact description thereof, and of the manner of constructing and operating the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of a part of my device. Figs. 2 and 3 show different forms of the keepers employed. Fig. 4 shows the parts of the invention put together. Figs. 5 and 6 show details, and Fig. 7 shows different forms of tags employed.

The object of my invention is to construct a changeable roll or poster upon which there may be set up any printed letters, any cut, illustration, musical score, or the like, which may be removed again, when done with, to make room for another; and the invention consists in the devices and combinations hereinafter fully specified, and pointed out in the claims.

I provide, first, a backing or ground of any suitable material. For outdoor use I prefer light thin wood, painted or suitably water-proofed, or sheet metal. For indoor use cardboard, or some woven fabric sufficiently inelastic, will suffice; but my preferred construction is a heading and frame-work, A, of wood, upon which a fabric, b, is evenly stretched. The heading is better fitted to receive the more permanent part of the device—such as the name of the school, the name of the firm, or the like—and the frame gives firmness to the structure. The fabric renders it light, and admits of ready and easy modification of those parts of the devices arranged upon it which require more frequent changing. This backing or ground may be hung or supported in any suitable manner. I have shown in Fig. 4 a preferred construction of heading and frame-work and means of supporting the parts. The heading is composed of a piece of rigid material, a, adapted to be suspended in any convenient manner, from which depend two or more cords, c. These cords suspend cross-bars d, provided with one or more rows of headed

pins, e. The lower edge of the heading may be studded with such pins partly or entirely across. A panel, B, of flexible material, provided at its ends with stretching-sticks f, and upon its upper and lower edges with loops g, arranged at distances apart corresponding to the headed pins upon the cross-bars, admits of being spread and attached to the cross-bars, as shown. As many of such cross-bars and panels may be thus suspended upon the suspending-cords as is desired, as is sufficiently obvious. The stretching-sticks are also of use as a rod or rods upon which to roll the flexible panel when detached, which is very convenient for the transportation after any device may have been set upon them. Panels of canvas, B', stretched upon rigid frames, may be interpolated by means of loops or eyes upon their upper and lower edges, or, by means of eyes upon one edge and hooks upon the other, may be attached to each other and to the heading, forming a chain of rigid panels. Upon this backing I set up the print, cut, illustration, musical score, or the like, by means of tags, Fig. 7, arranged in the necessary order, which tags have printed, painted, or in anywise formed on them the necessary letters or characters to compose the same. Each tag may bear a single letter, or a syllable, a cut or part of a cut, or illustration, or border, or an element of the musical score. A sufficient number of such tags are provided and so printed that out of them, as parts, the complete word or design may be composed. These tags may be made of card-board, sheet metal, or thin wood, or any equivalent material having sufficient rigidity. The tags are to be set up on the backing in any desired series or order, in straight or curved lines, as may suit the designer.

The means for securing the tags to the backing consist of projections formed on the tags arranged to engage with keepers secured upon the backing. The said projections upon the tags may consist of portions of the card, broad and single, projecting from the body of it, as at h in Fig. 7, and forming shoulders, as at i; or they may be two or more slenderer parts formed thereon or attached thereto, as at h',

and having bearing-shoulders, as at *i'*, or a single projection overhanging upon the front, as at *h'*, or overhanging in the rear of the tag, from the top of it, as at *h'''*, Fig. 7.

5 The keepers, by means of which the tags, with their projections or shoulders, are held upon the backing, consist of fine wires, slender strips of sheet metal, strong thread, or equivalent material, secured at proper intervals to the backing, as shown in Figs. 2 and 10 3. In case of wire or thread, it may be looped upon the backing in the shape of a long stitch, as seen at *k*. This stitch may be formed very short upon the back of the backing, as at *k'*, 15 and long upon the front, as at *k*, for the purpose of arranging the inscription entirely upon one face only of the roll; or the stitches may also be made of a like length upon the back as upon the front, as shown at *b* in Fig. 3, in 20 which case both sides of the backing may be used to arrange the prints upon. In the case of a strip of sheet metal or paper-board, or a thin splint of wood, it may be secured to the backing at its ends or along its lower edge, as shown in Fig. 2. I may also employ broad- 25 headed screws or tacks driven into the backing nearly to their heads, the necks of the tacks engaging the shoulders and projections upon the tags, as shown at *l*, Fig. 4. The color of the tags may be the same as that of the backing, or a higher color if a brighter effect is desired. That of the letter or print upon the tags must be of a sharper contrasting color. The color of the keepers, when the printed face 35 of the tag is fixed between them and the backing, should correspond with the ground color of the tag, except in case of setting up the musical score, maps, ornamental cuts, and the like, in which the line followed or the point marked by the keeper coincides with the lines 40 or points of the print set up, in which case it may be the color of the print upon the tags, as shown at *m*, or a color blending therewith, as may suit the designer.

45 For the purpose of supplementing the five lines of the musical score with the added lines and notes above or below, I combine with keepers of a color contrasting with the backing and preferably corresponding with the print 50 upon the tag, the same being to form the five lines of the score, keepers also of a color corresponding with the backing, arranged both above and below the aforesaid keepers, and tags bearing the imprint of a note and a portion of a line, the latter, when engaged with 55 the last-mentioned keepers, indicating the added lines and notes above and below.

It will be seen that my device may be employed to great advantage in week-day schools 60 to represent mottoes, maps, designs, &c.; in Sunday-schools to represent the roll of the school, showing those present, amount collected, &c., the movable sections representing the different classes, and attached to or placed 65 near the seats occupied by the classes until

collected by the officers of the school at the proper time, and hung together, as before described; forming a complete roll of the membership of the school, and indicating by different-colored letters, colored slips under the names, or signs before or after the names, any 70 fact in regard to attendance, punctuality, &c., which may be desired. It can also be used as a song-roll and as a substitute for the black-board, poster, or printed programme, and in 75 stores to advertise goods, as an express-call in windows, or upon walls, or anywhere as an advertiser or bulletin.

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

80 1. The combination, with a backing provided with keepers of thread, wire, or the like looped through said backing, substantially as set forth, of tags adapted to engage with said keepers. 85

2. The combination, with a backing provided with keepers of thread, wire, or the like looped through said backing, as described, of tags adapted to engage with said keepers, and having projections, whereby they may be 90 arranged in an orderly relation to each other.

3. The combination, with a head-piece studied with broad-headed tacks or their equivalent in an orderly series, of tags having projections adapted to engage and to be held 95 thereby, substantially as and for the purpose set forth.

4. The combination, with flexible backing provided with keepers of thread or the like looped through said backing, as described, of 100 tags having projections, and adapted to engage and be held by said keepers, as set forth.

5. The combination of a backing of one color and keepers of another color, adapted to receive tags and serve as the lines of the musical 105 staff, as set forth.

6. A tag having a musical character, and having also a line differing in color from that of the backing on which the tag is placed, and representing the added line or lines of the 110 musical staff, as set forth.

7. The combination, with a backing and keepers of one color, of keepers of another color arranged in the five lines of the musical staff, and tags engaging with the last-mentioned 115 keepers, and tags having transverse lines agreeing with the last-named keepers and engaging with those first named, as and for the purpose set forth.

8. The combination, with a backing provided with keepers of thread or the like looped through said backing, as set forth, of a tag having one or more projections, and adapted to engage the keepers thereby, as set 120 forth. 125

9. A tag of card-board or other suitable material, and inscribed with one or more letters or characters, and having one or more downward projections, whereby shoulders are formed 130 at the sides of the tags and between the pro-

jections, in case there be more than one of the latter, as set forth.

10. The combination of a head-piece, suspending-cords, cross-bars, movable flexible
5 panels, and suitable attaching devices, all forming a school or song roll, as set forth.

11. In a school or song roll, as set forth, the combination of a head-piece and separa-

ble attaching devices, whereby a chain of panels may be formed with the head-piece, as set forth.

ALBERT P. EASTMAN.

Witnesses:

R. F. BARNES,

W. C. JIRDINSTON.