L. O. HARRIS.

Bulletin-Board.

No. 224,684. Patented Feb. 17, 1880.

Fig. 1.

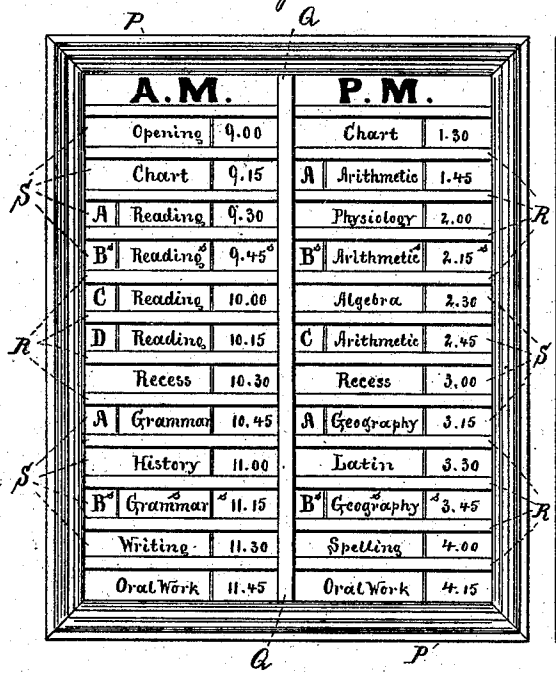


Fig. 2.

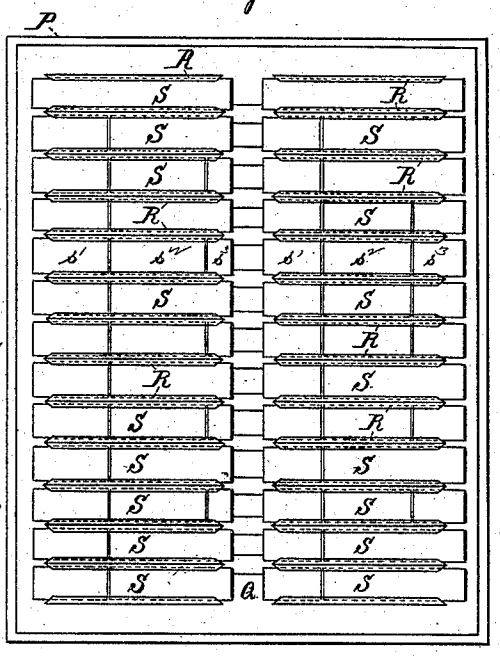


Fig. 3.

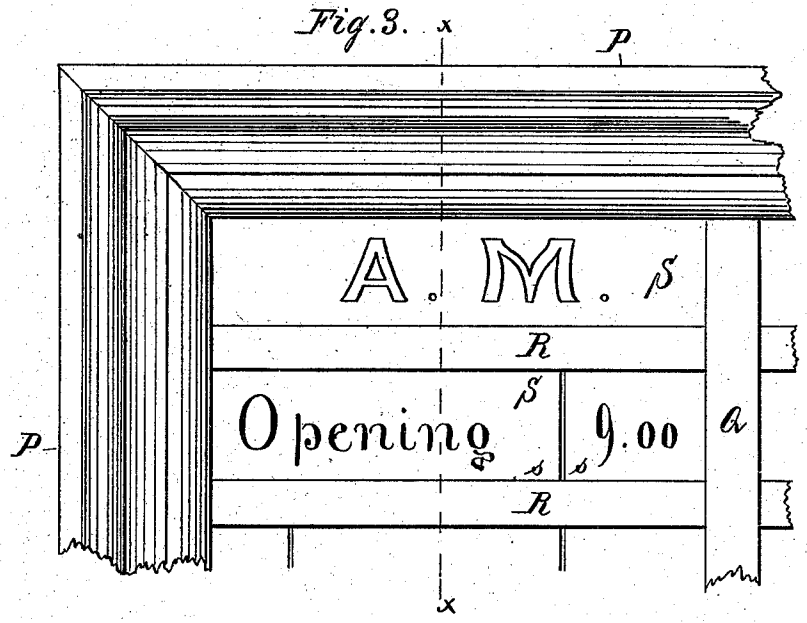
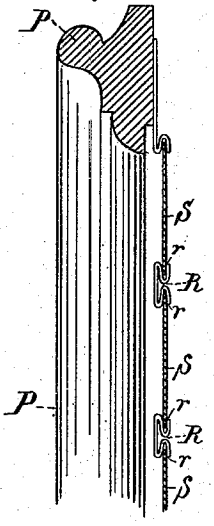


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

LEE O. HARRIS, OF GREENFIELD, INDIANA, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO SAMUEL W. BARNETT, OF SAME PLACE.

BULLETIN-BOARD.

SPECIFICATION forming part of Letters Patent No. 224,684, dated February 17, 1880.

Application filed September 22, 1879.

To all whom it may concern:

Be it known that I, LEE O. HARRIS, of Greenfield, county of Hancock, and State of Indiana, have invented certain new and useful Improvements in Adjustable School-Programmes, of which the following is a specification, reference being had to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts.

Figure 1 is a front elevation of my improved programme, which is in the general form of a framed bulletin. Fig. 2 is a rear elevation thereof. Fig. 3 is an enlarged view of a portion thereof. Fig. 4 is a sectional view on the dotted line *x x*, illustrating the formation of the grooves which hold the cards and the position of the cards therein.

The object of my invention is to construct a bulletin for school purposes, which shall display the names of the various studies, the order in which they come, and the hours for hearing recitations in each, and which can be easily varied and adjusted to correspond to any new regulation, or as the classes advance and changes become necessary.

In the drawings, the portion marked P represents the inclosing-frame, which is not in itself dissimilar to an ordinary picture-frame; Q, a vertical cross-bar for supporting the grooved pieces; R, grooved pieces running horizontally across the frame, or the bars Q attached thereto, the grooves of which hold and support the cards; and S, the cards upon which the desired matter is printed or otherwise inscribed.

The frame P is usually, as before stated, substantially the same as an ordinary picture-frame, but may be of any desired material or construction. The bar Q is simply a support, usually running vertically through the center of the frame, to support the grooved pieces R. It may, however, in some cases be dispensed with, especially should the frame be constructed of a small size.

The horizontal pieces R are constructed of sheet metal, which is bent in the form shown, so as to form a groove, *r*, upon each side. The same piece thus serves to support the upper edge of one series of cards and the lower edge of the one immediately above it.

The advantage of using sheet metal rather than wood or other rigid material is that the grooves therein, when constructed as contemplated by my invention, can be readily expanded or contracted to fit card-board of various thicknesses or to hold the cards with a more or less powerful pressure, as may best satisfy the user. Each of these grooves being open at both ends, the various sections of each card can be inserted or removed at pleasure without disturbing the others.

These grooved pieces or cross-bars are as applicable to any bulletins with which removable slips or cards are employed as to school-programmes. I do not, therefore, confine myself to this particular use, but expect to employ them as constructed in any form of bulletin to which they are suited irrespective of its purpose.

The cards S are made in sections, s^1 s^2, &c., as shown, so that the studies may be arranged and timed independently. Said cards are, however, each contained entire in a single groove, and as the grooves are open at both ends the various sections of card can be removed and rearranged without disturbing the whole card, or the cards may be replaced with others giving entirely different information, as before stated.

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

1. In an adjustable school-programme or bulletin-board, the combination of a series of removable and interchangeable cards with a set of cross-pieces, R, each constructed, as shown, to form two grooves, *r r*, from the single piece of metal of which it is composed, all substantially as and for the purposes herein set forth.

2. In a bulletin-frame for holding removable and interchangeable slips or cards, cross-pieces R, constructed of sheet metal, and each bent, as shown, to form two grooves, *r r*, from the single piece of metal of which the cross-piece is composed, substantially as shown and described, and for the purposes specified.

In witness whereof I have hereunto set my hand and seal at Greenfield, Indiana, this 18th day of September, A. D. 1879.

LEE OLIVER HARRIS. [L. S.]

In presence of—
ANDREW HAGEN,
DANIEL B. COOPER.