Jan. 23, 1945. H. E. ADELL 2,367,747

BOOK RACK FOR BLACKBOARDS

Filed July 20, 1943

FIG. 1

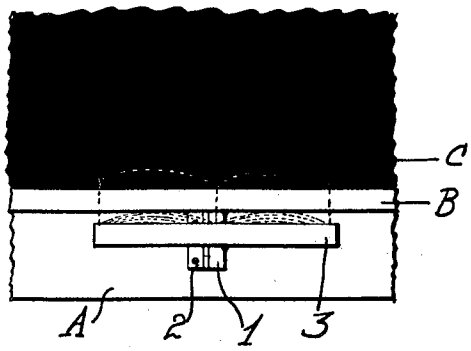


FIG. 2

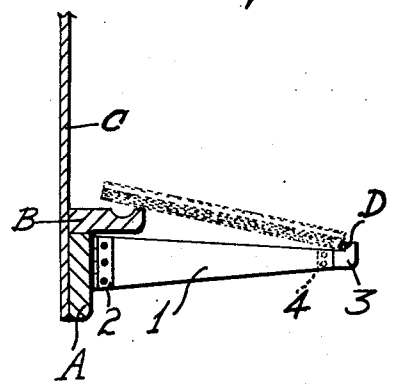


FIG. 3

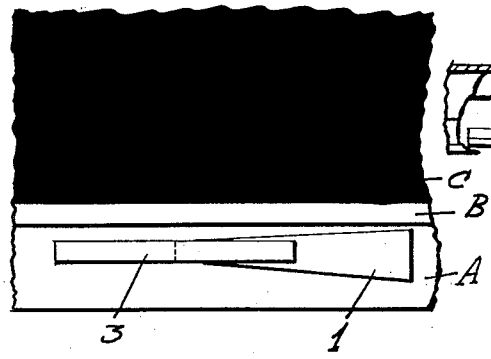


FIG. 4

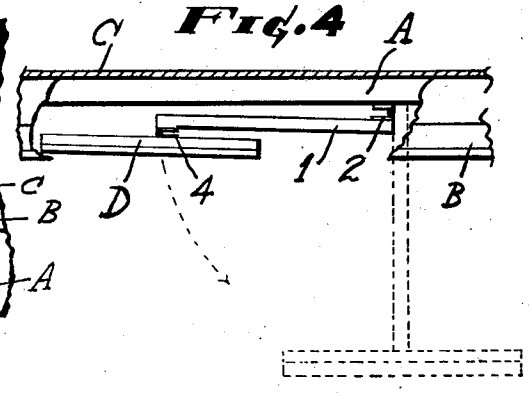


FIG. 5

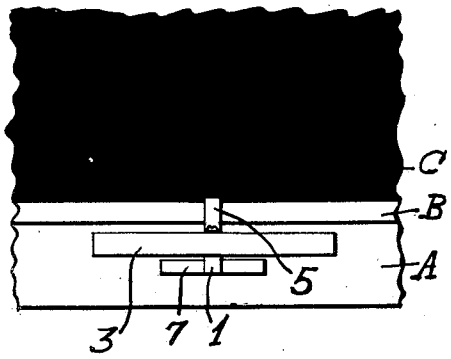
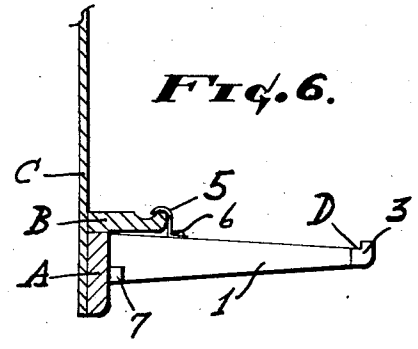


FIG. 6.



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BOOKRACK FOR BLACKBOARDS

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Application July 20, 1943, Serial No. 495,460

3 Claims. (Cl. 45—58)

This invention relates to a book rack for a black board, the principal object of which is to support a book in an open position as a convenient reference for pupils while working at the black board.

A further object of this invention is to provide a collapsible book rack and means to carry the same in working relation to a black board, said book rack adapted to fold beneath the chalk trough to avoid obstruction at congested times or during drill practice of the pupils.

A still further object of this invention is to provide an inexpensive rack for a book that is easily installed and efficient in its performance.

These and other objects will hereinafter be more fully explained, reference being had to the accompanying drawing forming a part of this specification and in which like characters will apply to like parts in the different views.

Referring to the drawing:

Fig. 1 is a front elevation of the book rack in its operative unfolded position, also a fragmentary portion of the black board, its chalk trough and apron.

Fig. 2 is a side view of Fig. 1, partly in section and illustrating the position of the book by dotted lines.

Fig. 3 is a similar view to that of Fig. 1, but showing the rack collapsed by rocking the same to one side and beneath the chalk trough.

Fig. 4 is a plan view of Fig. 3 in which the chalk trough is broken away for convenience of illustration.

Fig. 5 is a front elevation similar to that of Fig. 1, except the rack supporting means being modified to slideably engage along the chalk trough and removable therefrom.

Fig. 6 is a side view of Fig. 5, the black board components being in section.

The components of this invention consist of an arm 1 having rule joints, and being connected by hinge 2 to an apron A of a chalk trough B of a black board C, said arm having a cross bar 3 rule hinged to the outer end of the arm by a hinge 4 whereby the rack is collapsible and adapted to fold on itself and against the apron beneath the chalk trough as a shield therefor as the outer edge of said trough extends beyond the rack thus folded. Said rack being so constructed and adapted to fold as above stated is means to avoid an obstruction which otherwise would occur while pupils are passing along the front of the black board. The said cross bar has a rabbet D formed along its upper edge inward thereof and being L-shaped in cross section to receive one end of a book seated thereon while the other end lies on the upper side of the chalk trough to slantingly carry the book confronting the pupil; the rabbet thus formed will retain the book from sliding outward as the one end thereof engages against the vertical wall of the rabbet. In Figs. 5 and 6 is illustrated a modified way of constructing the rack and connecting the same to the chalk trough for movement of the rack longitudinally of the black board to any predetermined point convenient to the pupil, said modification consisting of a metallic hook 5 that engages over the outer edge of the chalk trough and extending downward therefrom and being secured to the upper edge of said arm by a screw 6 and, by upward and downward rocking at the outer end of the rack, the same may be engaged or disengaged, and being so connected the hook will be locked against disengagement but free to slide longitudinally of the chalk trough. Across the inner end of the arm and being adjacent its lower edge is a cross bar 7 secured thereto and resting against the apron to avoid lateral rocking at the outer end of the rack while carrying the hook or during sliding movement of the rack. In either case a plurality of racks may be provided for each black board and being spaced therealong, it being understood that the book rack thus modified and put into practice may be removed and placed in a convenient storage for future use, and such other modifications may be made as lie within the scope of the appended claims.

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

1. In a book rack for black boards of the class described, comprising in combination with a chalk trough and apron therefor, an arm, one end of which abuttingly engages the outer face of the apron and having one wing of a leaf hinge secured to one side of the arm, the other wing being secured to the outer face of the apron, whereby the arm will fold one way on the apron and be normally retained at right angles to the apron when the arm is rocked the other way to its extremity, a cross bar lying across the other end of the arm to snug engagement therewith at the longitudinal center of said cross bar and having one wing of a leaf hinge secured to the other side of said arm, the other wing of said hinge being secured to its adjacent side of the cross bar whereby the said bar will fold on the arm when rocked one way and be retained at right angles to said arm when rocked to its extremity the other way, means on the cross bar to receive one

end of a book seated thereon while the other end of the book rests on the upper side of the chalk trough to slantingly support the book.

2. In a book rack for a black board having a chalk-trough and an apron therefor, an arm of suitable length and thickness and its edges converging toward one end thereof and a bar L-shaped in cross section, said bar being hingedly connected at its longitudinal center to the convergent end of the arm so that one leg of said bar will extend upward from an edge of said arm, the hinge being secured to abutting sides of the arm and bar when the latter is rocked to engagement on the arm, and when rocked in the other direction to its extremity, said bar will be stopped at right angles to the arm, the other end of said arm being rule-jointed to a chalk trough apron, the hinge being secured to the side of the arm opposite the hinge for the bar so that the arm and bar will fold in parallelism with each other and also with the said chalk trough apron.

3. In a book rack for a black board, an arm having one end thereof hingedly connected at one side in working relation to a black board and outwardly extending at right angles thereto and adapted to rock in one direction to parallelism with the black board, a bar L-shaped in cross section hingedly connected at its longitudinal center to the opposite side of the other end of the arm in such a way as to retain the bar at right angles to the arm, but free to rock oppositely to that of the arm so that the bar and arm will lap on each other and in parallelism with the black board.

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