Jan. 3, 1967 F. J. HEAL 3,295,733

BOOK CARRIERS

Filed July 12, 1965

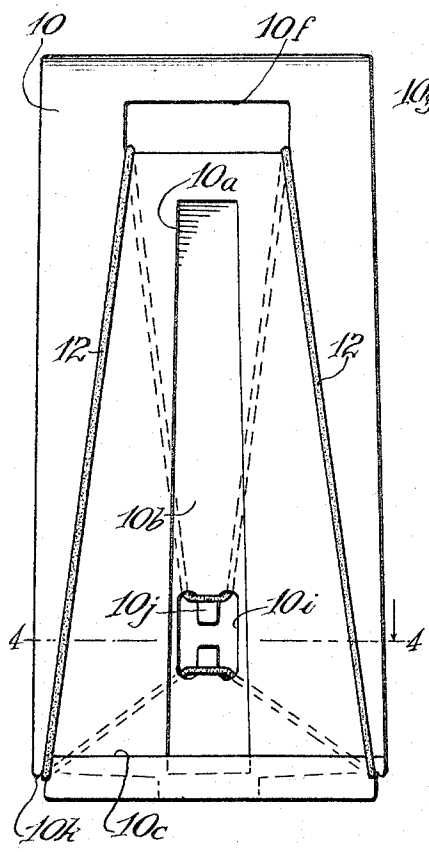


Fig. 1.

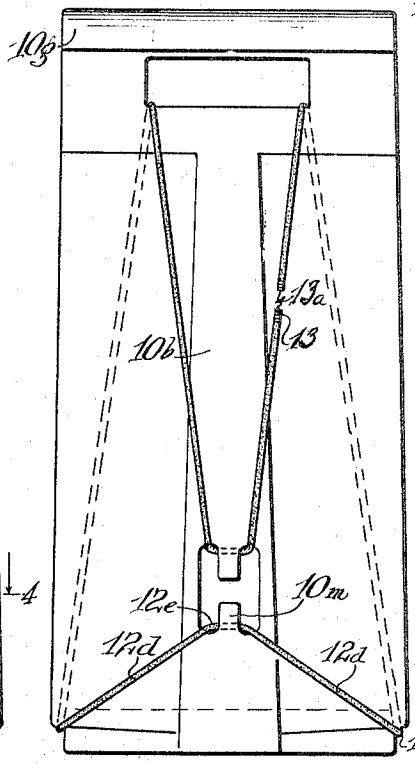


Fig. 2.

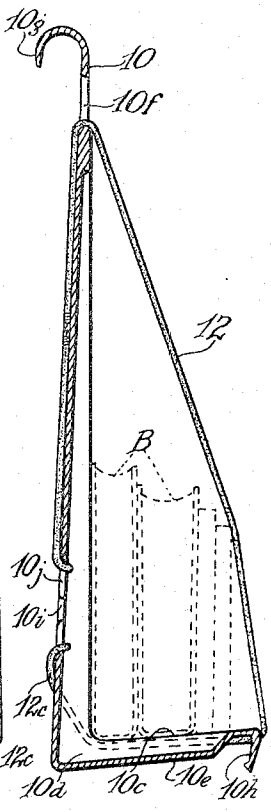


Fig. 3.

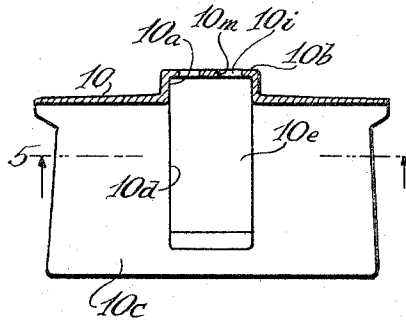


Fig. 4.

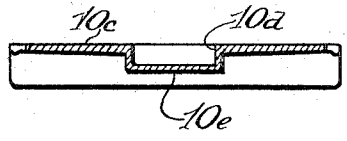


Fig. 5.

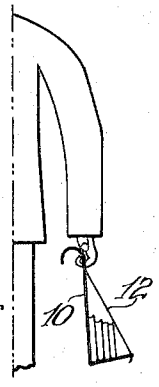


Fig. 6.

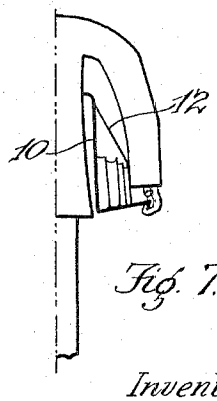


Fig. 7.

Inventor.

Francis J. Heal

By Frederick C. Bromley

Attorney.

United States Patent Office

3,295,733

Patented Jan. 3, 1967

3,295,733

BOOK CARRIERS

Francis J. Heal, Toronto, Ontario, Canada, assignor, by direct and mesne assignments, of thirty-three and one-third percent to Michael Horodelski, Toronto, Ontario, Canada, and thirty-three and one-third percent to Reginald C. Longman, Don Mills, Ontario, Canada

Filed July 12, 1965, Ser. No. 471,322
4 Claims. (Cl. 224—45)

My invention relates to sets of books carried by students underneath the arm and, more particularly, to devices designed for supporting and holding the books together while they are being carried. Such devices as have come to my attention are quite involved or unhandy, and it is the main object of the present invention to provide a carrier for the purpose specified which is made only in two simple units, one to support the books and the other to hold them together.

A further object is to provide a sturdy rack of metal or plastic material as the unit for supporting the books, and an elastic cord as the unit for holding the books firmly in the rack.

Another object is to form the carrier in a manner to be suspended from the hand or from a rail when the student is walking or riding in a public conveyance, or to be held under the arm as a set of books is ordinarily carried.

An additional object is to construct the rack of the carrier with reinforcing formations designed to keep the rack rigid while it is loaded with books or subjected to carrying strains.

A better understanding of the invention may be gained by reference to the accompanying drawing, in which—

FIG. 1 is a front elevational view of the carrier, with the elastic cord applied;

FIG. 2 is a rear elevational view;

FIG. 3 is a vertical section showing the carrier loaded with a set of books;

FIG. 4 is a section on the line 4—4 of FIG. 1, without the elastic cord;

FIG. 5 is a section on the line 5—5 of FIG. 4;

FIG. 6 is a view showing the carrier suspended from the hand; and

FIG. 7 is a similar view showing the carrier held under the arm.

Specific reference to the drawing indicates the rack of the carrier as a sturdy plate **10** of substantially rectangular form. In actual size the plate would be approximately 15 inches high, 8 inches wide, and 3/16 inch thick. To reinforce the plate against bending under strains, it is struck back in the center with a vertical recess **10***a* defining a rear wall **10***b*. At the bottom the plate is extended with a forward shelf **10***c* at slightly less than a right angle to form a rack for accommodating a set of books B as illustrated in FIG. 3, with a tendency for the books to settle or nest in the rack.

The shelf **10***c* of the rack is struck down in a medial zone with a recess **10***d* defining a bottom **10***e* which is a continuation of the rear wall **10***b*, as shown at left-bottom in FIG. 3. It is now evident that the wall **10***b* and bottom **10***e* constitute reinforcements to fortify the rack against bending when carrying a heavy load of books or when it is subjected to strains.

The rack is made with a horizontal opening **10***f* near the top for a hand grip when the carrier is held suspended as in FIG. 6; and the upper end of the rack is rounded rearwardly to form a hook **10***g* suitable for hanging the carrier from a rail or molding when the student is riding in a public conveyance. However, the rack may be carried conveniently under the arm, as shown in FIG. 7, the bottom **10***e* of the rack presenting a frontal pocket

10*h* engageable by the fingers from underneath to secure a firm supporting grip on the rack.

The retaining unit applied to the rack **10** for holding the set of books B in place is in the form of an elastic cord **12**. The ends of the cord are clamped in coiled wire sockets **13** terminating with hooks **13***a*. The cord assumes the form of an endless loop when the hooks **13***a* are connected as shown in FIG. 2. In the application of the loop to the rack **10**, widely-spaced portions **12** extend from the lower edge of the opening **10***f* to the bottom of the rack **10** as shown in FIG. 1. At the top the loop sections **12** pass through the opening and continue with more narrowly-spaced portions **12***a* and an end **12***b*, the latter being returned to the front by passing through an opening **10***i* in the center of the rack. A lug **10***j* depends into the opening **10***i*, and the end **12***b* of the cord loop is engaged with the lug **10***j* from the frontal side, as seen in FIG. 1. At the bottom the cord sections **12** take return bends **12***c* on the inner sides of guard lugs **10***k* extended from the lower end of the rack; and the bends rise with converging sections **12***d* joining in a loop end **12***e*. A lug **10***m* similar to the lug **10***j* rises from the bottom of the opening **10***i*; and the end **12***e* engages the lug **10***m* on the frontal side. The cord is now anchored at both ends of the rack; and the frontal cord sections **12** may be distended to allow the books to be mounted on the rack, and then released to engage them with tension as indicated in FIG. 3.

It is now apparent that the novel book carrier has a rack of sturdy construction, with a shelf on which the books may be stacked as shown to settle or nest in the rack. In addition, a simple elastic cord is retentively looped around the rack to present frontal portions engageable with the books as stated. Thus, the carrier—made only in two pieces—is suitable for supporting a set of books retentively, and of a nature to be produced at low cost on a quantity basis.

I claim:

1. A book carrier comprising a plate designed to serve as a backing for a set of books and having an opening near the upper end, a shelf extended forwardly from the bottom of the plate for support of the books, means for retaining the books in the carrier comprising an elastic cord loop with frontal companion sections spanning the lower edge of the opening and the outer edge of the shelf and terminal sections anchored on the reverse side of the plate.

2. The book carrier of claim 1, the plate having a medial opening defining opposed lugs and the elastic cord loop having terminal sections returning toward each other on the reverse side of the plate and being anchored on said lugs.

3. The book carrier of claim 1, the free end of the shelf being bent down to form a pocket opening rearwardly for a finger grip when the carrier is supported under the arm.

4. The book carrier of claim 1, the top of the plate being rolled back to form a hook for the hanging support of the carrier.

References Cited by the Examiner

UNITED STATES PATENTS

188,199	3/1877	Smith	224—45
3,041,774	7/1962	Walker	224—46 X
3,123,264	3/1964	Proctor	224—48 X

FOREIGN PATENTS

501,770	7/1930	Germany.

HUGO O. SCHULZ, *Primary Examiner.*