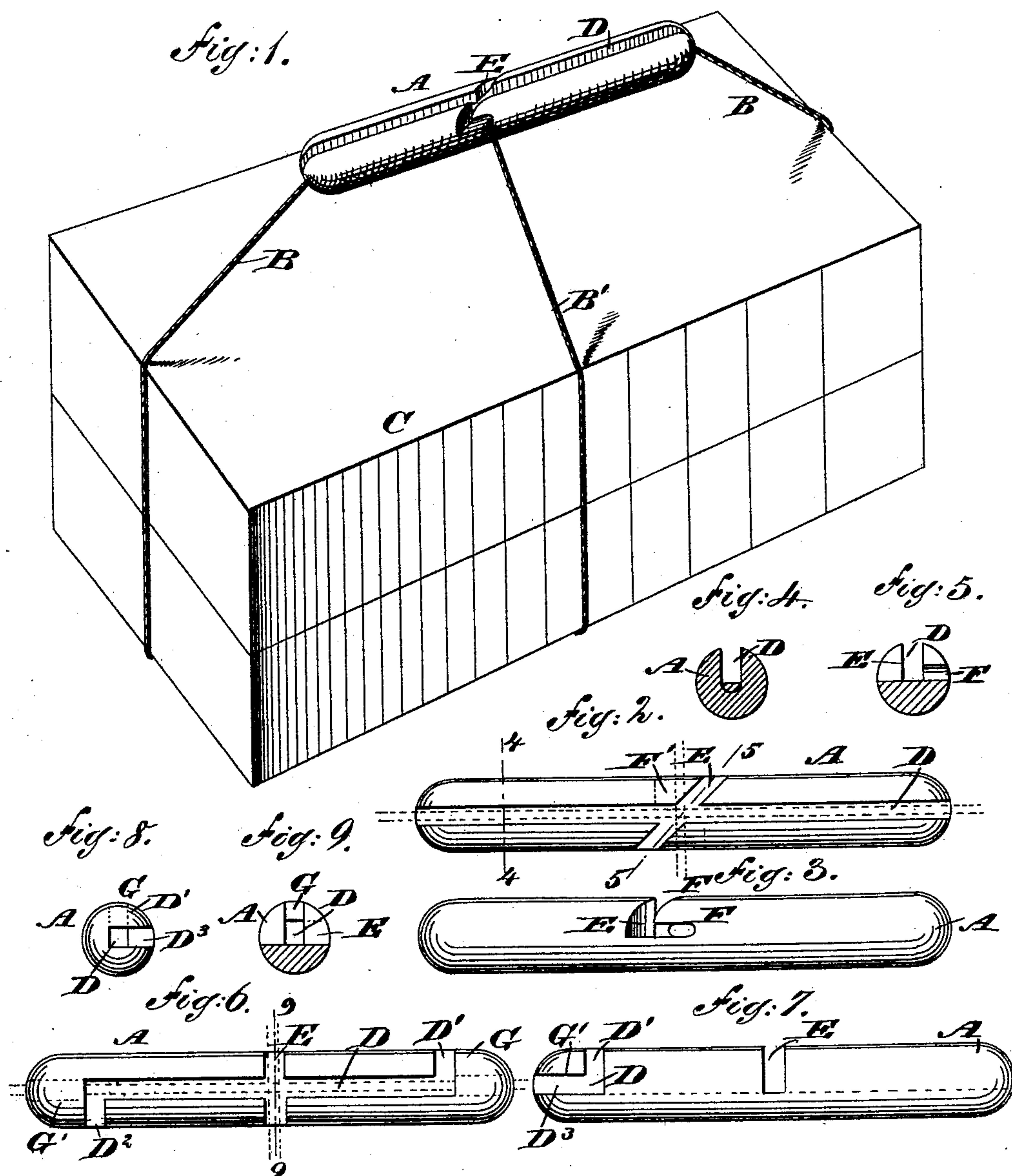


(No Model.)

F. H. PALMER.  
PACKAGE CARRIER.

No. 480,618.

Patented Aug. 9, 1892.



WITNESSES

Chas. Viola  
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# UNITED STATES PATENT OFFICE.

FRANK H. PALMER, OF BROOKLYN, NEW YORK.

## PACKAGE-CARRIER.

SPECIFICATION forming part of Letters Patent No. 480,618, dated August 9, 1892.

Application filed November 23, 1891. Serial No. 412,727. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK H. PALMER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Package-Carrier, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved package-carrier, which is simple and durable in construction, readily applied to the binding-strings of the package, and arranged to conveniently carry the package when applied without danger of being accidentally detached and lost.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improvement as applied. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of the same. Fig. 4 is a transverse section of the same on the line 4 4 of Fig. 2. Fig. 5 is a similar view of the same on the line 5 5 of Fig. 2. Fig. 6 is a plan view of a modified form of the improvement. Fig. 7 is a side elevation of the same. Fig. 8 is an end view of the same. Fig. 9 is a transverse section of the same on the line 9 9 of Fig. 6.

The improved package-carrier consists principally of a grooved handle A, adapted to receive the package-strings B B' of the package C, as illustrated in Figs. 1 to 5, inclusive. The handle A is provided in its top with a longitudinally-extending groove D, adapted to receive the longitudinal package-string B. At or near the middle of the handle A is arranged a transverse groove E, extending diagonally, intersecting the longitudinal groove D, and formed at its ends at opposite sides with under-cuts F F', arranged opposite each other at about right angles to the longitudinal groove D, as is plainly seen by reference to Fig. 2. The diagonal groove E is adapted to receive the transverse package-string B', the same being placed into the top of the transverse groove E to finally pass to the under-cuts F and F', so that the overhanging parts

lock the transverse package-string in place. In applying this handle to the package-strings the operator lifts the strings B and B' sufficiently to place the handle under the strings, so that the longitudinal string B passes into the longitudinal groove D. The operator then bends the transverse string B' in opposite directions near the handle, so as to pass the transverse string B' into the diagonal groove E, from which the strings pass into the oppositely-arranged under-cuts F and F'. The handle A is then attached to the package-strings, and the latter are prevented from becoming detached by being passed into the under-cuts, the overhanging walls or parts of which prevent detachment of the strings.

As illustrated in Figs. 6 to 9, inclusive, the longitudinal groove D in the top of the handle A does not extend to the ends and terminates in transverse grooves D' and D<sup>2</sup>, extending in opposite directions, as is plainly shown in Fig. 6. The transverse grooves D' and D<sup>2</sup>, as well as the ends of the longitudinal groove D, open into an under-cut D<sup>3</sup>, extending centrally in the end of the handle, as is plainly shown in Fig. 8, the said under-cut reaching from about the center to the side of the respective transverse groove D' or D<sup>2</sup>. The middle transverse groove E is not made diagonal, but extends at right angles to the longitudinal groove D and is not provided with under-cuts, as above described with reference to Figs. 2 to 5.

As will be readily seen by the foregoing description and the Figs. 6 to 9 referred to, the under-cuts are formed in the longitudinal groove D instead of the transverse groove. The under-cuts D<sup>3</sup> form overhanging lugs G and G' on the ends of the handle A to prevent the strings from becoming detached when applied to the handle. In applying this form of handle the strings B and B' are again lifted to permit of placing the handle below the strings, the longitudinal string B being bent in opposite directions at the ends of the handle to pass the same into the transverse grooves D' and D<sup>2</sup> to engage the under-cuts D<sup>3</sup>, so that the longitudinal string assumes an entirely straight position, as shown in dotted lines in Fig. 6. The transverse string B' passes into the transverse groove E. Now it



will be seen that when the operator takes hold of the handle from below he can readily carry the package without his fingers coming in contact with the strings, thus preventing the cutting of the hands and at the same time guarding against accidental displacement of the handle. It will further be seen that by this construction the handle is securely held in place in the middle of the package or at the crossing of the two strings, the handle being prevented from slipping in either direction.

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

1. A package-carrier provided with a handle having a longitudinal groove on top for the longitudinal package-string and provided with under-cuts on the sides to engage and

lock the transverse package-string in place, substantially as shown and described.

2. A package-carrier provided with a handle having a longitudinal groove and under-cuts arranged at the sides of the said groove near the middle of the handle, substantially as shown and described.

3. A package-carrier provided with a handle having a longitudinal groove and under-cuts arranged at the sides of the said groove near the middle of the handle, the said under-cuts opening into a groove extending diagonally across the said longitudinal groove, substantially as shown and described.

FRANK H. PALMER.

Witnesses:

THEO. G. HOSTER,  
C. SEDGWICK.