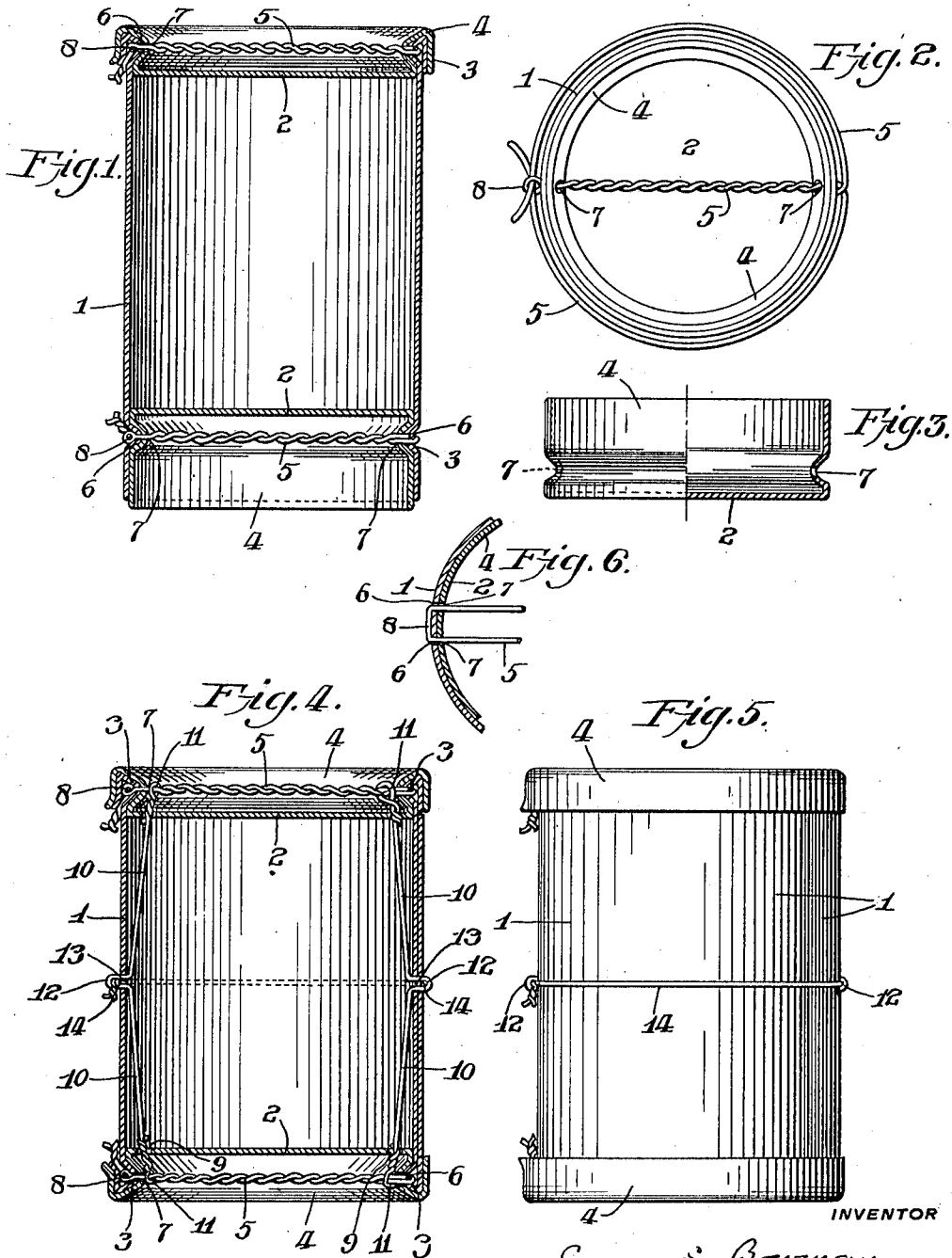


G. S. BOWMAN.
SHIPPING PACKAGE.
APPLICATION FILED FEB. 27, 1912.

1,035,151.

Patented Aug. 13, 1912.



WITNESSES

H. Gamble.
J. D. Stroup

George S. Bowman

BY

Chas. A. Carter.

ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE S. BOWMAN, OF LEBANON, PENNSYLVANIA.

SHIPPING-PACKAGE.

1,035,151.

Specification of Letters Patent.

Patented Aug. 13, 1912.

Application filed February 27, 1912. Serial No. 680,332.

To all whom it may concern:

Be it known that I, GEORGE S. BOWMAN, a citizen of the United States, and a resident of Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Shipping-Packages, of which the following is a specification.

My invention relates to improvements in shipping packages and more particularly to improvements in means for securing the heads or ends to the main body of the package which latter may be of either a permanent or knock-down construction.

The particular object of my invention is to furnish a strong, simple, inexpensive shipping package, preferably of metal, which I will hereinafter more particularly describe.

In the accompanying drawings forming part of this specification and in which similar letters of reference indicate similar parts throughout the several views: Figure 1, is a central vertical sectional elevation through a cylindrical sheet metal package, in one end of which the end of the body and the flange of the head are rolled or bent over and the other end of which is shown with these parts unbent, embodying my improvements; Fig. 2, a plan of the upper end of Fig. 1, showing ends of wire 5 brought around the package but not tightened; Fig. 3, partly a side and partly a sectional view of the flanged head of my package; Fig. 4, a central sectional elevation of the package showing a connection between the tying wires at opposite ends of the package; Fig. 5, a side elevation of Fig. 4; Fig. 6, a plan of part of one end of the package showing a tying wire passing through two perforations in the end of the body and in the flange of the head.

The body of my package is constructed of sheet metal, wood, paper, or other suitable material, and for many reasons I prefer, but do not desire to confine myself to, a cylindrical form. The meeting ends of the body may be secured in any of the approved methods or the edges may simply overlap one another and be held in place by the heads or by encircling hoops or wires in conjunction with the fastening of the heads.

1 is the body of the package, 2 flanged heads of the same diameter or cross section as the interior of the body and adapted to

be placed within the ends of the body as shown. It is preferable, but not essential, that the material forming the body 1 be grooved, as shown at 3 and that the flange 4 of the head 2 be similarly grooved, the grooves acting together to assist in holding the heads in place and to form a receptacle for a wire 5 as presently described.

The sides of the body 1 are furnished with perforations 6 which are diametrically opposite one another and the flanges of the heads 2 are furnished with similar perforations 7, also diametrically opposite, which are, when the head is in place in the body, in register with the perforations 6 in the latter. A doubled wire 5, the bight of which carries or is looped to form a head 8, is passed through the holes in the body and flanges of the heads, as shown and is passed one part to one side and the other part to the other side of the package, resting in the groove 3, if the body be furnished therewith, and the ends are passed through the loop 8 and are twisted together so as to tighten them against the body and to secure them. I prefer that the wire lying inside the flange of the head be twisted as shown so as to form but one strand but this is not essential nor is it essential that the wire 5 be looped at its bight. It might pass through two holes 6—6, 7—7 in the body and flange as shown in Fig. 6; in fact any arrangement which will hold this doubled end of the wire in place may be used but the looping and twisting, before described, being the less expensive, is to be usually preferred. The head having been placed in the body and secured by the wire 5, which not only holds the head to the body but also forms an effective tie for preventing the ends of the latter from opening, the flange 4 of the head and the ends of the body which are in engagement with this flange are bent outwardly and downwardly over the wire 5 which encircles the outer part of the body and the package is completed.

In some cases, more particularly where the package is to contain heavy articles, railway track spikes for instance, I deem it best to join the two cross wires 5 at the ends of the package by wires 10 looped at their ends for the passage of the wires 5 as shown at 11 and passing through holes 9 formed in the heads 2 as shown in Fig. 4.

If desired the wire 10 may be bent at 12 to form a loop which may pass through holes 13 formed in the overlapping sides of the body 1 and a wire 14 may be passed through this loop and around the central part of the body, its ends being twisted together to hold it and bind it against the body, to assist in strengthening this latter, as shown in Figs. 4 and 5.

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

1. In a package, in combination, a body, flanged heads closing the ends of said body
15 and a wire passing through perforations in the ends of said body and in said flange and across said head, the ends of said wire being adapted to pass around the outer ends of said body and to be secured together.

20 2. In a package, in combination, a body, flanged heads closing the ends of said body and a doubled wire passing through perforations in the ends of said body and in said flange and across said head, the ends of
25 said wire being adapted to be bent one in one direction and the other in the other direction around the outer ends of said body and to be secured the one to the other.

3. In a package, in combination, a body
30 furnished near its ends with circumferential grooves, flanged heads adapted to be passed into the ends of said body and the flanges of which are furnished with grooves adapted to engage the grooves on the body, and a
35 wire adapted to pass through perforations in said body and flanges and across said heads and the ends of which are adapted to

encircle the outer portions of the ends of said body and to be secured together.

4. In a package, in combination, a body, 40 flanged heads adapted to close the ends of said body, and a doubled wire adapted to pass through perforations in said body and flange and across said head, and which is adapted to encircle said body and to have 45 its ends secured together, the outer ends of said body and flange being adapted to be bent outwardly and downwardly substantially as set forth.

5. In a package, in combination, a body, 50 flanged heads adapted to close the ends of said body, wires adapted to pass through perforations in ends of said body and in said flanges, to cross the outer end of said heads, to encircle said body, the ends of each 55 wire being adapted to be secured together, and a wire joining the said wires and passing through said package.

6. In a package, in combination, a body, 60 flanged heads adapted to close the ends of said body, wires adapted to pass through said body and flanges, to cross said heads and to surround said body, a wire the ends of which are looped and adapted to be carried by said head crossing wires and to pass 65 through said package and furnished with a loop passing through the side of said package, and a wire adapted to encircle said package and to pass through said latter loop, all substantially as set forth.

GEORGE S. BOWMAN.

Witnesses:

JAMES LORD,
J. C. KRAMER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."