

Dec. 15, 1925.

H. E. McCrery ET AL

1,565,809

SHIPPING DRUM

Filed Nov. 20, 1922

2 Sheets-Sheet 1

Fig. 1.

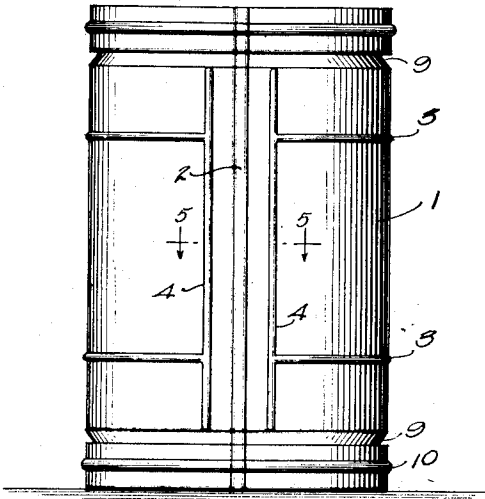


Fig. 2.

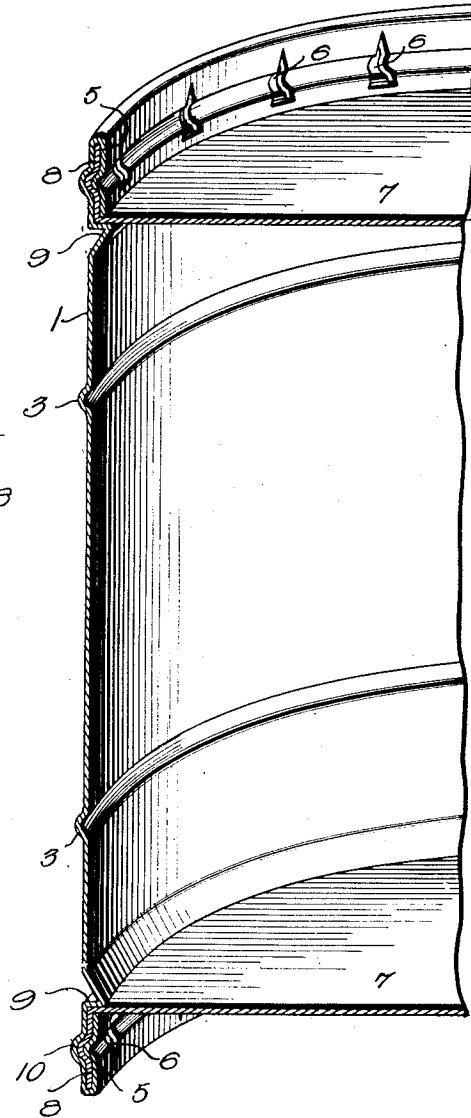
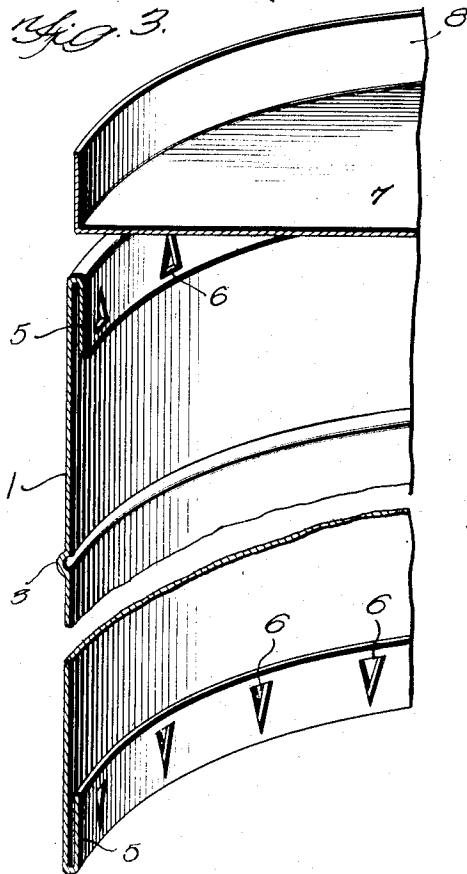


Fig. 3.



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2 Sheets-Sheet 2

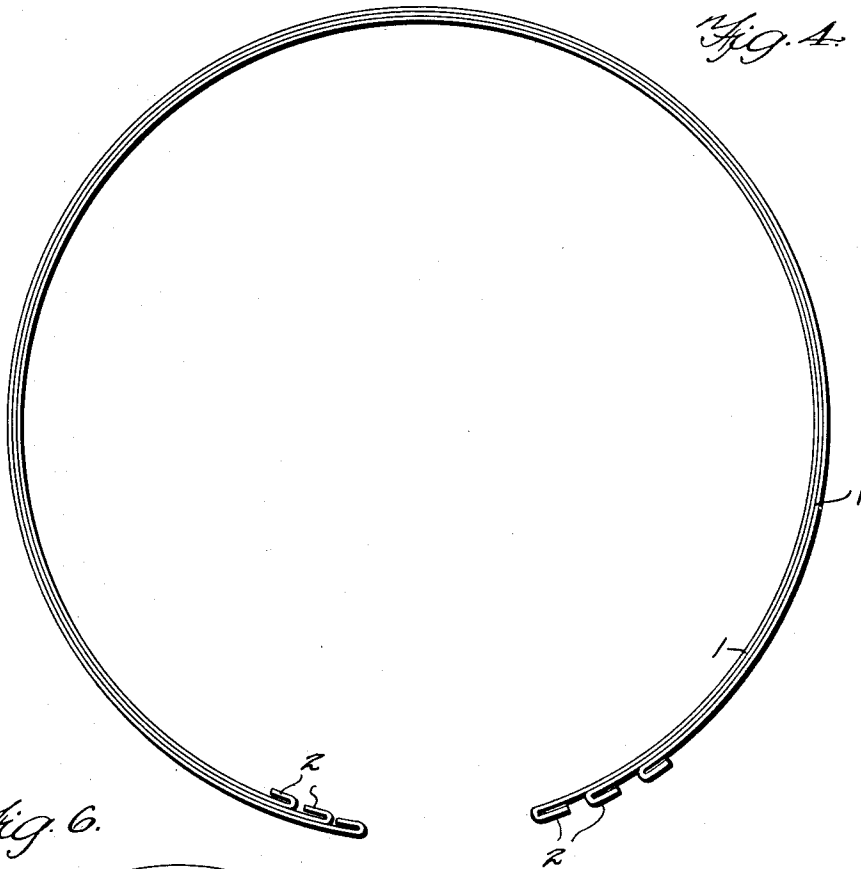


Fig. 6.

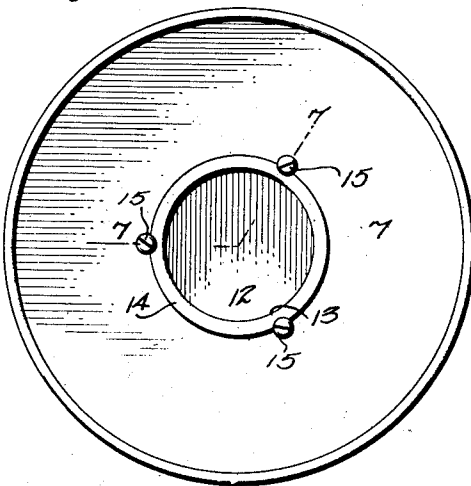


Fig. 5.

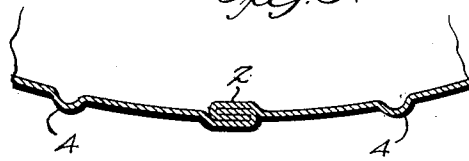
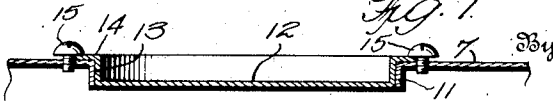


Fig. 7.



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UNITED STATES PATENT OFFICE.

HAROLD E. McCRERY AND ALBERT E. JESSER, OF PHILADELPHIA, PENNSYLVANIA,
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SHIPPING DRUM.

Application filed November 20, 1922. Serial No. 602,095.

To all whom it may concern:

Be it known that we, HAROLD E. McCRERY and ALBERT E. JESSER, citizens of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Shipping Drums, of which the following is a specification.

This invention relates to shipping drums, and methods of assembling the same.

In the use of sheet metal shipping drums, the body and heads are formed and then shipped separate to the user who assembles them. In one type of shipping drum, the body is crimped or rolled inwardly adjacent the ends to form shoulders which serve as supports for the heads, the heads being placed in position and a portion of the body beyond said shoulder being rolled or turned over to engage a flange formed on the periphery of the head.

In the present invention, we provide a drum consisting of a body having preformed rolled edges to receive the head, the shoulder beneath the head being rolled in the drum by the user after the head has been inserted. By eliminating the shoulder beneath the head and providing a substantially flat body, a large number of bodies may be nested in shipping, thus reducing the cost of shipment.

An object of the invention is the provision of a body having its edges provided with seams adapted to be interlocked and being provided with reenforcing hoops, rolled in the body and vertical reenforcements arranged adjacent each side of the seam.

In the accompanying drawings, we have shown one embodiment of the invention. In this showing:

Figure 1 is a front elevation of the drum,

Figure 2 is a vertical sectional view,

Figure 3 is a similar view showing the head about to be placed in position,

Figure 4 is an end elevation of a number of drums nested,

Figure 5 is a detail sectional view on line 5—5 of Figure 1,

Figure 6 is a plan view of a head provided with a supplementary opening, and

Figure 7 is a detail sectional view on line 7—7 of Figure 6.

Referring to the drawings, the reference numeral 1 designates the body of the drum

which, as shown, is formed of sheet metal and is provided with curled edges 2 adapted to form an Acme seam. These body portions are adapted to be shipped knocked down and nested, as shown in Figure 3 of the drawings, and when the drum is to be used by a shipper, the edges 2 are interlocked and hammered to form a tight joint, as shown in Figure 5 of the drawings. During the manufacture of the drum, the body is rolled to form horizontal hoops 3, extending substantially the entire distance around the drum. These hoops are connected to vertical, rolled portions 4, forming braces on each side of the seam. The ends of the body portion are turned over, as at 5, and extend substantially parallel to the body portion. The parallel portions may be provided with triangular shaped cut out portions 6, to permit it to be readily compressed when the head is placed in position. The head consists of a substantially circular plate 7 having a peripheral flange 8.

The head and drum are shipped separable in knocked down condition and when the drum is to be assembled, the head is sprung into position between the turned-over portion and the body and after the head has been placed in position, the body is rolled to form a shoulder 9 adjacent the head and retain it in position. A roll 10 may also be formed in the flange of the head, the turned over portion 5 and the adjacent portion of the body, as shown in Figure 2 of the drawings.

In Figures 6 and 7 of the drawings, I have shown a head having a supplemental opening therein. An inwardly extending flange 11 is arranged around this opening and the opening is adapted to receive a cover 12, having an upstanding flange 13 at its periphery. This flange is provided with a horizontal extension 14, to frictionally engage the head. The cover is retained in position by sheet metal screws 15.

The advantages to be obtained by assembling a collapsible shipping drum in the method described will be readily apparent. If the shoulders 9 are formed in the drum before it is shipped, it is impossible to snugly nest the bodies as shown in Figure 4 of the drawings, as the shoulders occupy a space and it is necessary to space each pair of bodies a distance equal to the depth of

the shoulder. By providing the turned over edges for the reception of the head and then rolling the shoulder 9 after the head has been inserted, the space occupied by the
5 bodies in shipping is materially reduced.

The drum forming the subject matter of the present invention is materially strengthened by the vertically rolled portions 4, formed adjacent the seam. The rolled portions 3 serve as hoops to reenforce the drum and also provide traction rings on which the barrel may be rolled. This prevents the entire body from coming in contact with the ground when the barrel is loaded and is
15 rolled from one place to another.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the sub-
20 joined claims.

Having thus described the invention, we
25 claim:

1. A knock down drum comprising a substantially cylindrical sheet metal body portion having its end turned over to receive a head, said turned over portion being provided at points spaced from its edge with
30 alined cut out portions to permit it to be

compressed, and a head having a peripheral flange, said flange being adapted to be received between the end of the body portion and the turned-over portion, said flange, said
35 turned over portion and said body portion adjacent said flange, being rolled in alignment with said cut out portions to form an outstanding annular bead.

2. A knock down drum comprising a
40 substantially cylindrical sheet metal body portion having its end turned over to receive a head, said turned over portion being provided at points spaced from its edge with alined cut out portions to permit it
45 to be compressed, a head having a peripheral flange, said flange being adapted to be received between the end of the body portion and the turned over portion, said flange and turned over portion, and said body portion
50 adjacent said flange, being rolled in alignment with said cut out portions to form an outstanding annular bead of substantially semi-circular cross section, and an annular
55 shoulder rolled inwardly from said body portion inwardly of said head, said shoulder having a flat face parallel to and contacting with the inner face of said head.

In testimony whereof, we affix our signatures.

HAROLD E. McCRERY.
ALBERT E. JESSER.