B. A. WILLIAMS.

AMMUNITION CASE OR RECEPTACLE.

APPLICATION FILED OCT. 9, 1917.

1,274,828. Patented Aug. 6, 1918.

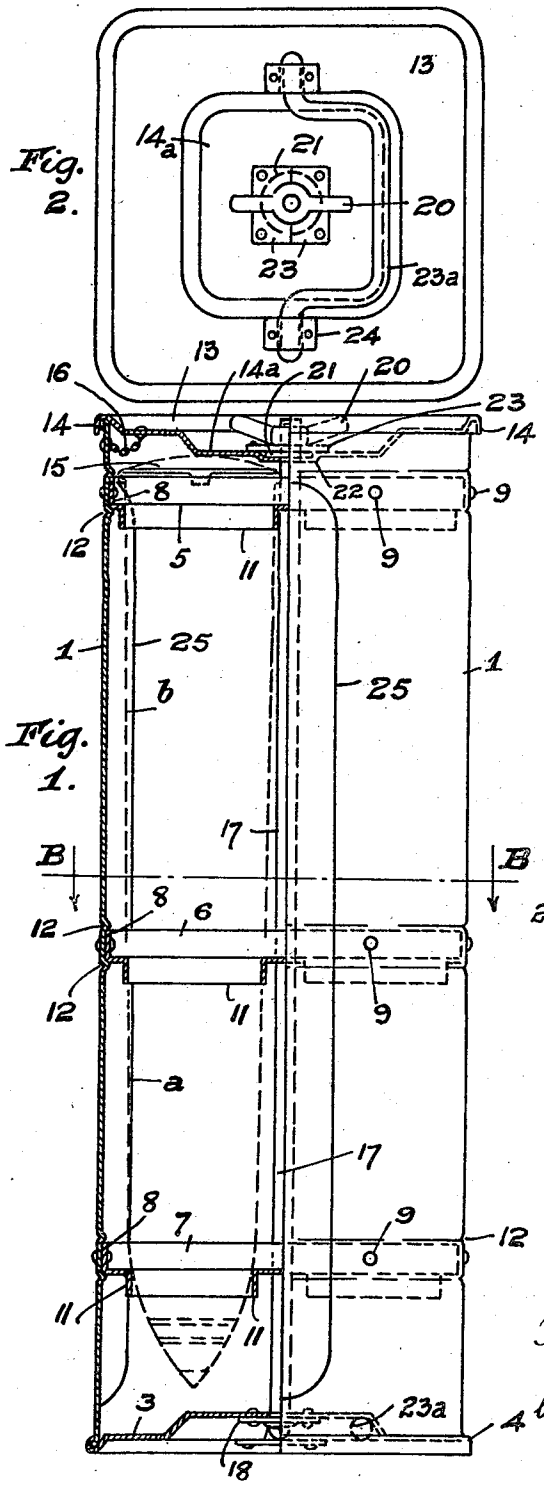


Fig. 2.

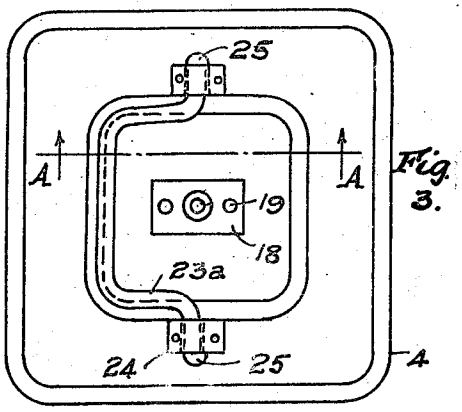


Fig. 3.

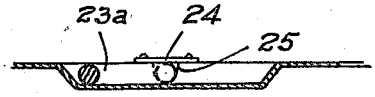


Fig. 4.

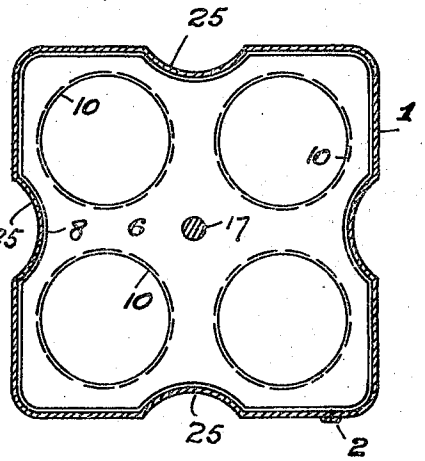


Fig. 5.

Inventor:
Benjamin Allen Williams,
by Hauke & Anderson,
Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

BENJAMIN ALLEN WILLIAMS, OF CHESTER, ENGLAND.

AMMUNITION CASE OR RECEPTACLE.

1,274,828. Specification of Letters Patent. Patented Aug. 6, 1918.

Application filed October 9, 1917. Serial No. 195,566.

To all whom it may concern:

Be it known that I, BENJAMIN ALLEN WILLIAMS, a subject of the King of Great Britain, and a resident of Chester, England, have invented certain new and useful Improvements in Ammunition Cases or Receptacles, of which the following is a specification.

This invention relates to an improved construction of receptacle for transporting case shot, shells, or the like ammunition.

Such receptacles are at present usually constructed of wood, and considerable time and skilled labor is required for their manufacture. The object of the present invention is to provide a type of receptacle which may be quickly and economically constructed, the receptacle according to the present invention being made up from stamped sheet metal, the construction thus lending itself to manufacture on a large scale. Further advantages of the invention arise from the fact that in the improved receptacle the overall cubical volume is reduced as compared with the present wooden receptacles by about 40 per cent., while the life of the receptacle is also considerably increased, and by making the receptacle of stamped sheet metal as described, it may be produced in great quantities by machinery and with unskilled female labor. The improved sheet metal receptacle is also fireproof.

A receptacle constructed in accordance with this invention is shown in the accompanying drawings, in which Figure 1. is an elevation, the left half being shown in longitudinal section and the right half in outside elevation. Fig. 2. is a plan of the top of the receptacle, and Fig. 3. an inverted plan of the base. Fig. 4. is a fragmentary detail view in section on the line A—A, Fig. 3. and Fig. 5. is a sectional plan on the line B—B of Fig. 1. showing the mid-diaphragm of the receptacle.

According to this invention the receptacle comprises an outer shell 1 of sheet metal which is longitudinally seamed at 2, the base 3 being permanently secured to the shell 1 by a peripheral seam 4. Fitted across the receptacle is a series, say three, of diaphrams 5, 6, 7. These sheet metal diaphragms are stamped up and flanged at 8 around their peripheries to fit the interior of the shell 1, the diaphragms being secured to the shell by their flanges 8, either by means of electric spot welding or by rivets 9. The diaphragms are each pierced with, say four, circular apertures 10, these apertures being also flanged at 11, and the diameters of the perforations in succeeding diaphragms are made of slightly decreasing size to conform to the varying diameter of the shell *a* and its case *b* shown in dotted lines so that the case shot sits snugly in the flanged apertures. The diameter of the flanged perforations in the lowest diaphragm 7 is made such that the weight of the shell *a* and its case *b* is taken by the engagement of the curved end of the shell *a* against the flange 11 of this lowest diaphragm. In order to facilitate the expeditious positioning of the diaphragms, 5, 6 and 7 during the process of assembling, the receptacle 1 is indented from the outside at 12 to form a series of slightly inwardly projecting ridges which are only set up from the inner face of the receptacle sufficiently to permit of the flanges 8 of the diaphragms being sprung past such ridges into position, the ridges being flanged in pairs in order also to form a socket for retaining the diaphragms while being riveted or welded. The receptacle is provided with a removable lid 13 flanged at 14 to fit over the upper rim of the shell 1, the lid being provided with a recess 14^a, the sunken floor of which is adapted to engage the end of the shot case, or a spring cap 15 fitting thereon, so that when the lid is screwed down by a bolt mechanism, the shot and case *a*, *b*, are engaged by an endwise grip, the nose end of the shot being clear of the base 3. In order to prevent the lid when removed being lost or misplaced, it is permanently secured to the shell by a short chain 16 or other flexible element.

The lid 13 is secured in place on the receptacle 1 by a bolt 17 which passes down the center of the case, the foot of the bolt being riveted to a foot plate 18 which is in turn riveted at 19 to the base 3. The top end of the bolt 17 is threaded where it passes up and out through a clearance hole in the lid 13, this screwed end of the bolt being engaged by a wing nut 20, by screwing up which a longitudinal grip on the shell *a* and its case *b* is effected and the lid 13 securely held in place.

In order to maintain the wing nut 20 permanently in engagement with the lid 13 so that it may not be lost, an annular flange 21

on the nut is housed within a recess 22 stamped in the lid 13, such recess being covered by plates 23 secured to the lid. In this way, while the nut is free to rotate when screwing or unscrewing, it is always permanently attached to the lid and kept in its correct axial position. The depth of the recess 14^a in the lid 13 is arranged to be such that the wing nut 20 is below the top rim of the flange 14, nothing projecting above this rim, and a series of receptacles being thus capable of being stacked end on end. The receptacle 1 is provided with handles 23^a on each end by which it may be conveniently transported, the handles being arranged to lie below the recesses 14^a in the lid and the base of the receptacle 1, the bearings for the handles being formed by recesses 25 stamped in the ends and inclosed by plates 24 riveted thereto.

The sides of the receptacle 1 may be longitudinally corrugated as shown at 25 to impart increased strength.

I claim—

In a receptacle for ammunition, in combination; a sheet metal outer case; longitudinal corrugations in the walls of the case; a base permanently secured to the case; a recess in the base; a pivoted handle housed in said recess; a series of stamped sheet metal diaphragms disposed transversely in the receptacle; ridges in the wall of the case for positioning the diaphragms; perforations in the diaphragms to receive the ammunition; a removable lid; a recess in said lid; a pivoted handle housed in said lid recess; a bolt disposed longitudinally in the receptacle and secured to the base, a nut engaging the bolt and the lid by means of which an endwise grip on the ammunition is obtained between the lid and the lowest diaphragm, and means for securing the nut to the lid, said nut being housed in the recess of the lid.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN ALLEN WILLIAMS.

Witnesses:

C. R. Woolley,

Chas. Hawkins.

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