United States Patent

McDaniel

[15] **3,662,877**

[45] **May 16, 1972**

[54] MISSILE LAUNCHER CONTAINER

[72] Inventor: **Donald M. McDaniel,** Guntersville, Ala.

[73] Assignee: **The United States of America as represented by the Secretary of the Army**

[22] Filed: **Mar. 31, 1970**

[21] Appl. No.: **24,293**

[52] **U.S. Cl.** .....**206/3,** 220/4 R

[51] **Int. Cl.**.....**F42b 37/00,** F42b 39/00, B65d 85/30

[58] **Field of Search** .....220/4, 4 E, 9 F; 206/3, 46 F, 206/46 FC

[56] **References Cited**

UNITED STATES PATENTS

3,465,871	9/1969	Lyons	206/3
2,919,017	12/1959	Weber	220/94 X
2,161,402	6/1939	Arutunoff	220/44 X
3,072,022	1/1963	Wood	206/3 X
3,438,480	4/1969	Chabrelot	220/94 X

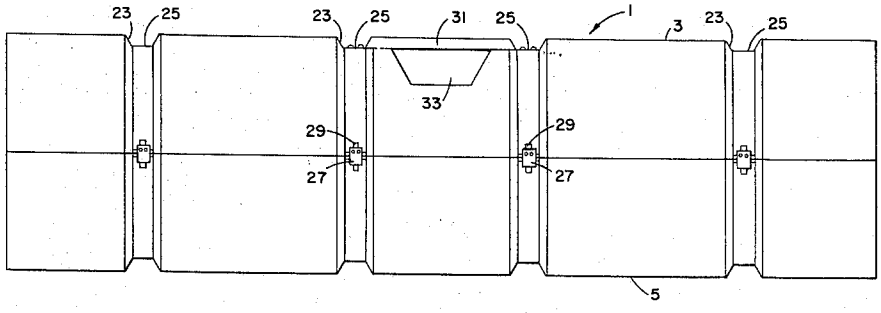
Primary Examiner—George E. Lowrance

Attorney—Harry M. Saragovitz, Edward J. Kelly, Herbert Berl and Charles R. Carter

[57] **ABSTRACT**

A container for a missile launcher and batteries for operating the launcher consisting of shell of rectangular cross section including a pair of sections that are provided with a plurality of contiguous cavities. Padded seats are located in the cavities for supporting the launcher and a pair of cushions is placed in each section for restraining end movement of the launcher. Walls are formed in one of the sections to provide storage compartments for the batteries. A shoulder is formed on one of the sections and a seal is disposed for engagement with a shoulder of the other section to provide a waterproof seal between the sections. The sections include circumferential recesses and bands engage the recesses and include cooperating closure latch members for securing the sections together. A handle is secured to a pair of the bands to provide a means for carrying the container. The shell is provided with a depression to allow clearance adjacent the handle.

1 Claim, 6 Drawing Figures



PATENTED MAY 16 1972

3,662,877

SHEET 1 OF 2

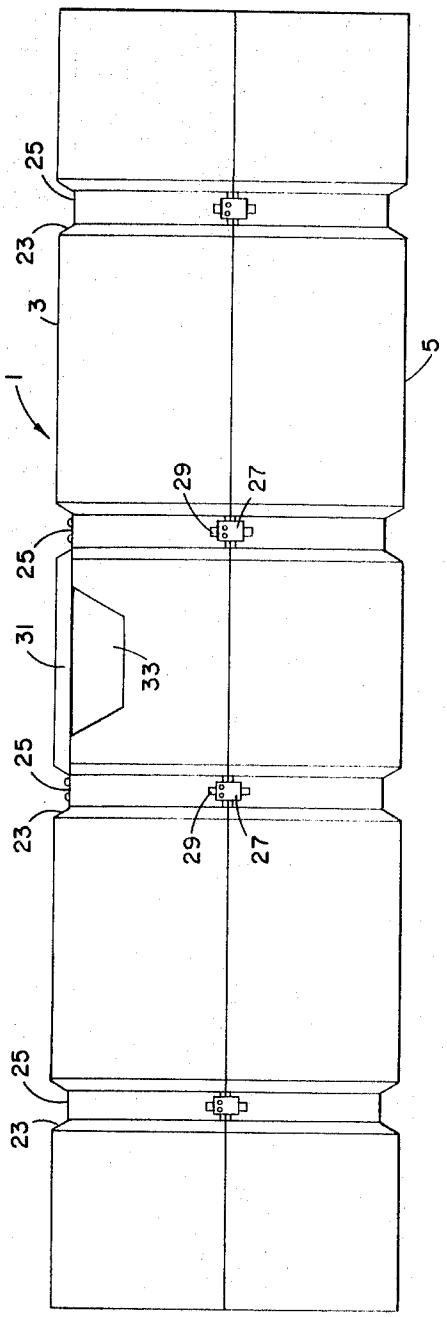


FIG. 1

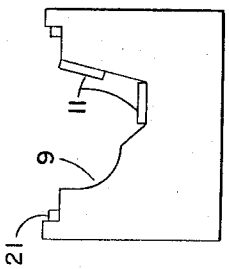


FIG. 6

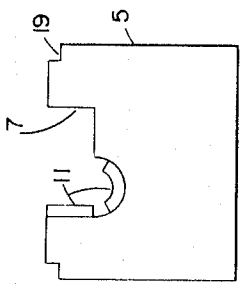


FIG. 5

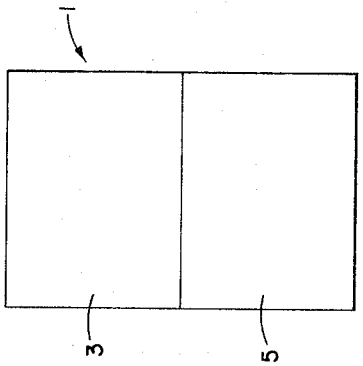


FIG. 2

Donald M. McDaniel,
INVENTOR
BY Harry M. Saragovitz
Edward J. Kelly
Herbert Berl
Charles R. Carter

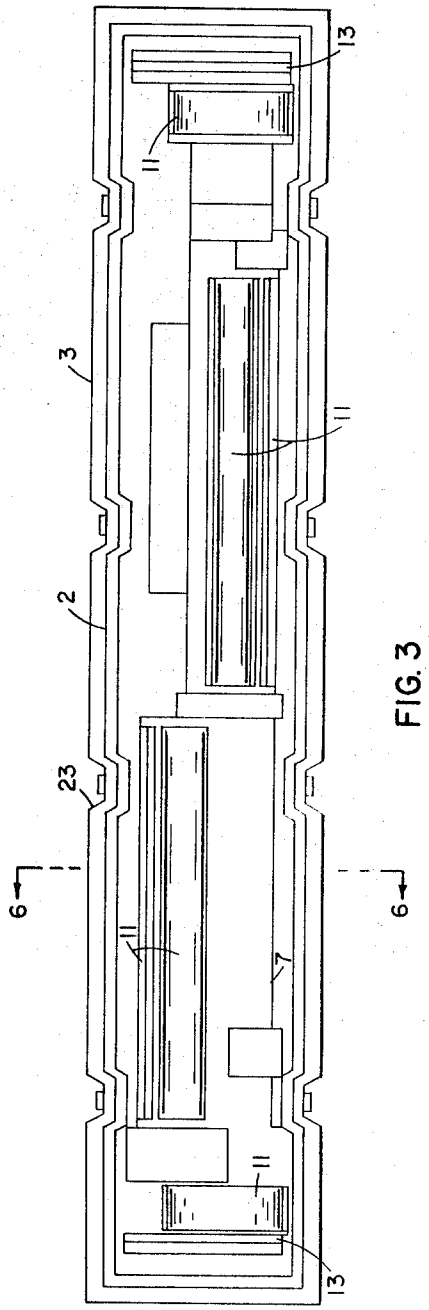


FIG. 3

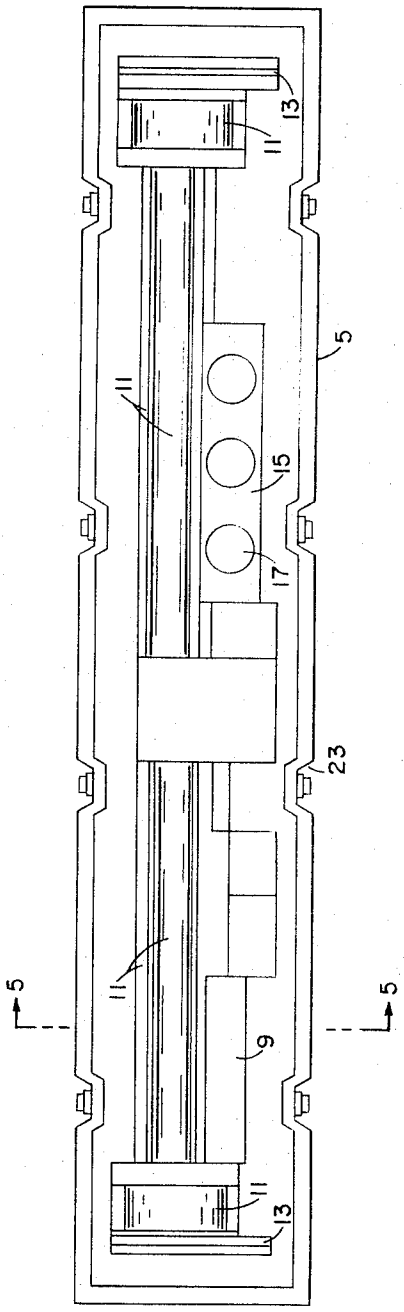


FIG. 4

Donald M. McDaniel,
INVENTOR

BY Harry M. Saragovitz
Edward J. Kelly
Herbert Berl
Charles R. Carter

MISSILE LAUNCHER CONTAINER

BACKGROUND OF THE INVENTION

This invention relates to the field of missile launcher containers. Existing unit containers are very costly and wooden containers involve a weight problem in transportation. A more practical container such as the present polystyrene structure was required to eliminate both of the disadvantages.

SUMMARY OF THE INVENTION

The present invention provides a practical container for military use in that it is reuseable, recloseable and includes carrying, stocking, and sealing provisions.

The invention may be better understood from the following detailed description taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows an elevational view of the container.

FIG. 2 shows an end view of the container.

FIG. 3 shows a plan view of the lower section.

FIG. 4 shows a plan view of the upper section.

FIG. 5 is a sectional view of the lower section shown along line 5—5 of FIG. 4.

FIG. 6 is a sectional view of the upper sections shown along line 6—6 of FIG. 3.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Reference numeral 1 generally indicates the container shell of a substantially rectangular cross section including sections 3 and 5. Contiguous cavities 7 and 9 are formed in sections 3 and 5 respectively and are of various depths, more clearly seen in FIGS. 5 and 6, at different locations in the sections. A plurality of padded seats 11 are bonded at different positions to walls forming the cavities for supporting the launcher therein. Cushions 13 are positioned near the ends of each section for restraining end movement of the launcher and consist of

polyethylene foam attached to plywood. Walls 15 are formed in section 5 to provide a plurality of battery storage compartments 17. A shoulder 19 extends around the peripheral edge of section 5 to engage a seal 21 to prevent water leakage when the seal and shoulder are mated. Circumferential recesses 23 are formed in the outer surface of each section and bands 25 engage the surfaces and extend around their respective section. The ends of the lower section bands includes latch members 27 and 29 on the ends of the bands for engagement to secure the sections together. A handle 31 is secured to the intermediate bands to provide a means for carrying the container. A depression 33 is formed in the upper section beneath the handle to provide clearance for entry adjacent said handle.

It is noted that the generally rectangular cross sectional shape is provided for stacking the containers.

I claim:

1. A container for a missile launcher and batteries for operation thereof comprising: a shell of substantially rectangular cross section including a pair of sections each provided with a plurality of contiguous cavities; padded seats located in said cavities for supporting the launcher therein; a pair of cushions in each section near the ends thereof for restraining end movement of the launcher; walls formed in one of said sections to provide storage compartments for said batteries; each of said sections having a plurality of circumferential recesses; a plurality of band elements disposed in said recesses; each band element provided with a cooperating closure latch member for securing the sections together; a shoulder formed on one of said sections and a seal disposed for engagement with said shoulder to provide a waterproof seal between said sections; a handle secured to an intermediate pair of said band elements to provide means for carrying said container; said shell being provided with a depression between said intermediate elements to provide hand clearance beneath said handle; said padded seats being polyethylene foam; said cushions consisting of a complete assembly of plywood and polyethylene foam; and said seal being polyurethene foam.

* * * * *