United States Patent [19]

Huot

[11] **3,870,149**

[45] **Mar. 11, 1975**

[54] **DRILL HOLDING CASE**

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[73] Assignee: **Huot Manufacturing Company,** St. Paul, Minn.

[22] Filed: **Apr. 23, 1973**

[21] Appl. No.: **353,408**

[52] **U.S. Cl.** **206/379**

[51] **Int. Cl.** **B65d 85/20**

[58] **Field of Search** ..... 206/379, 45.15; 220/31 R

[56] **References Cited**

UNITED STATES PATENTS

1,930,617	10/1933	Huot	206/379
1,989,159	1/1935	Shiffman et al.	220/31 R
2,329,685	9/1943	Baker	206/45.15
2,491,264	12/1949	Hermani	220/31 R
2,564,601	8/1951	Huot	206/379

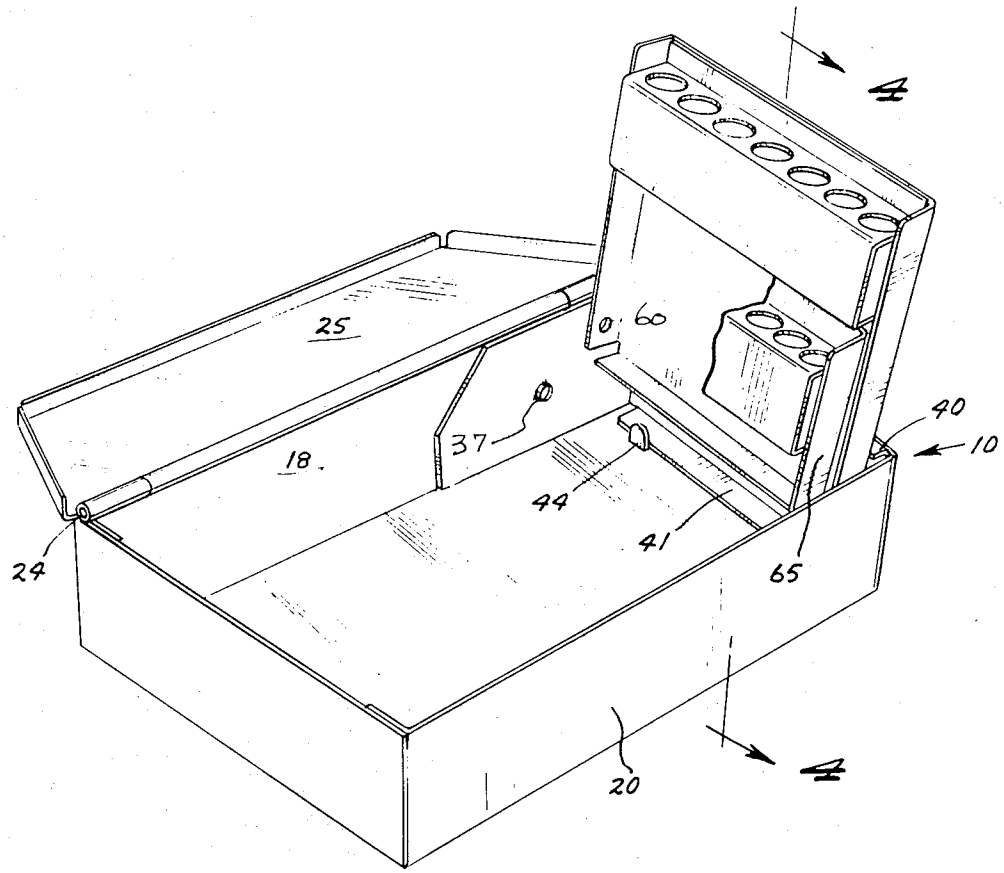
Primary Examiner—William T. Dixson, Jr.

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[57] **ABSTRACT**

An improvement in a drill holding case consisting of a housing, an insert disposed into said housing resting against an end wall thereof, a pair of tongues struck from the bottom of said housing securing said insert, said insert having parallel side walls having aligned pairs of projections struck therefrom forming inwardly extending annular collars which form bearings, a drill holding member carried by said insert, said member having a pair of side walls, said side walls having a pair of axially aligned annular projections extending outwardly thereof, said projections extending into a pair of said aligned collars to be journaled therein whereby said drill holding member is pivotally mounted and a cover for said case.

1 Claim, 5 Drawing Figures

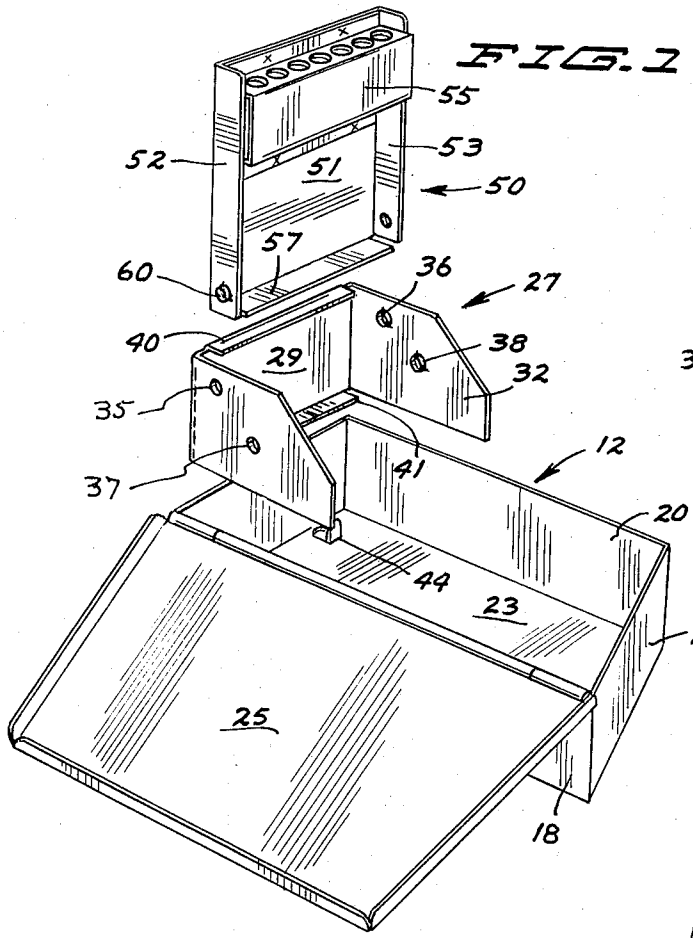


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SHEET 1 OF 2

FIG. 1



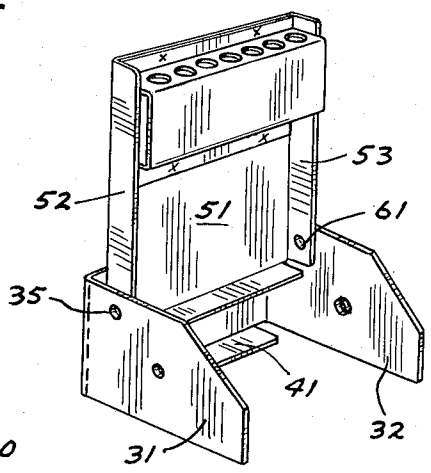


FIG. 2

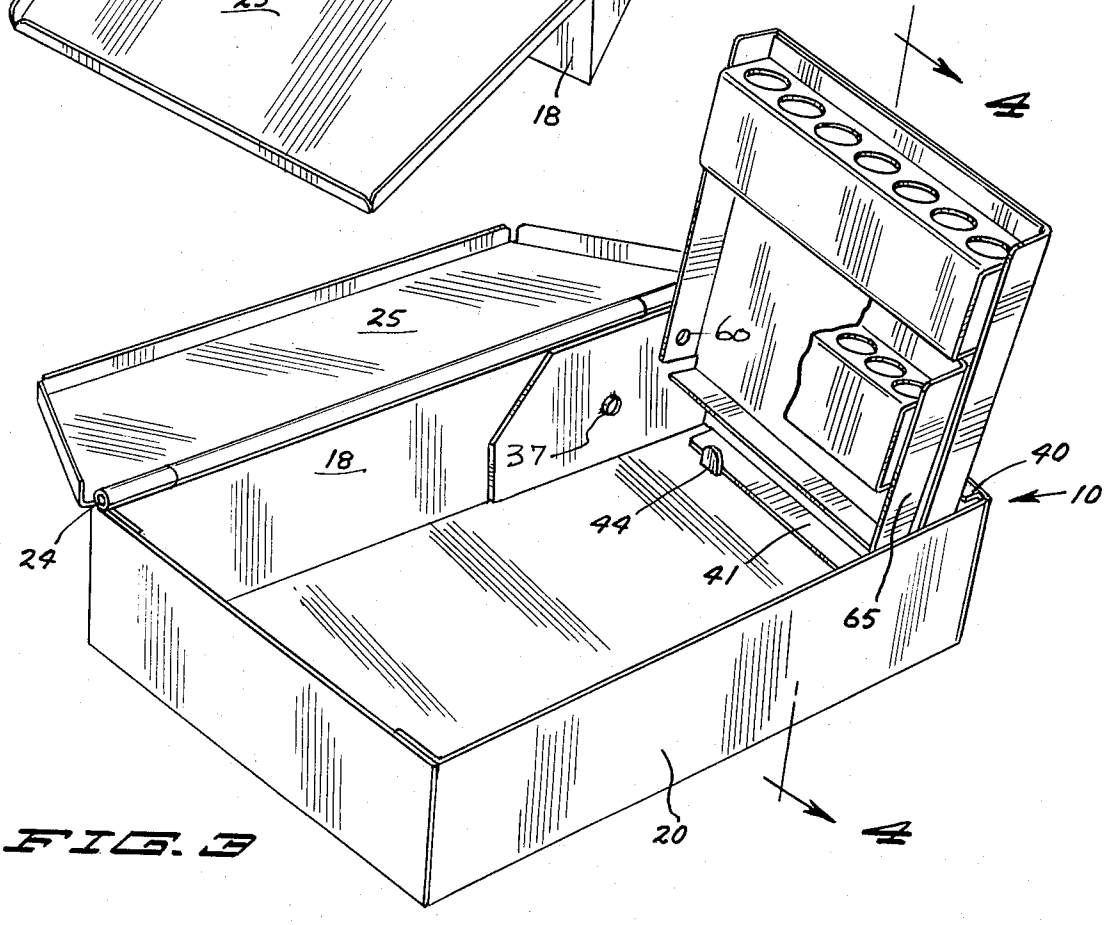


FIG. 3

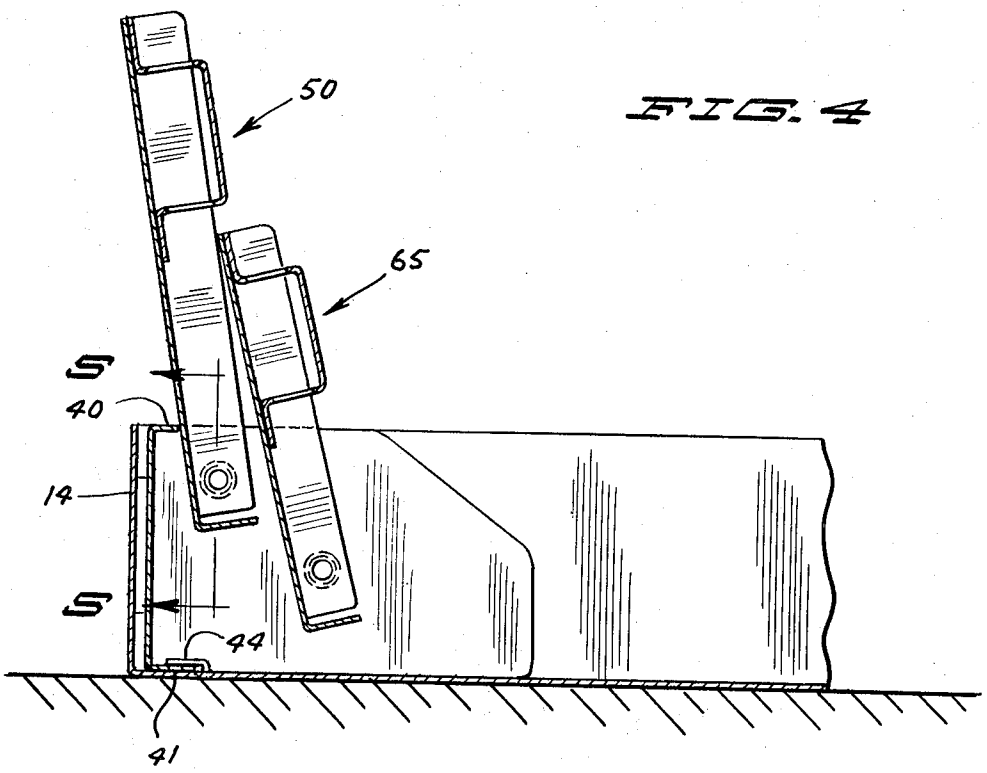


FIG. 4

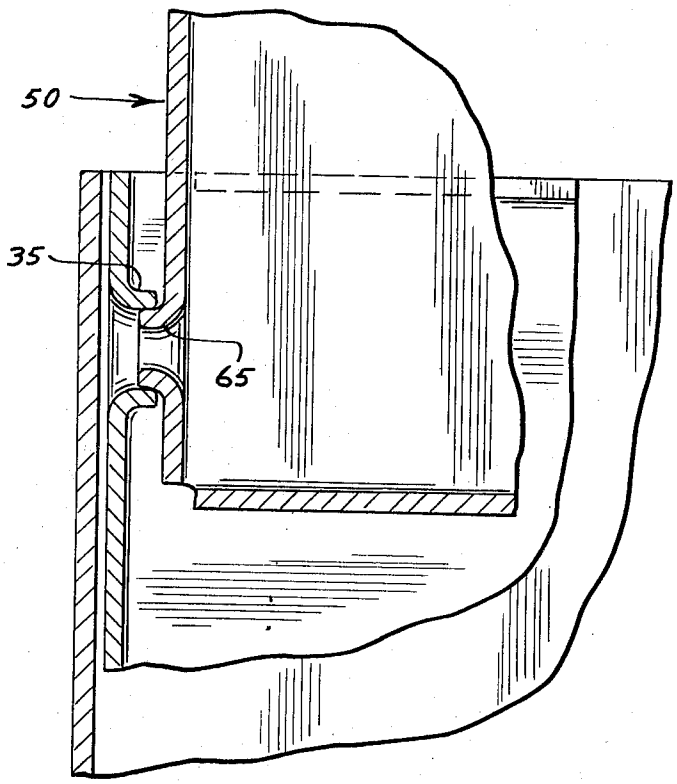


FIG. 5

DRILL HOLDING CASE

SUMMARY AND BACKGROUND OF THE INVENTION

The invention herein relates to an improvement in a drill holding case and particularly represents an improvement over related structure set forth and disclosed in U.S. Pat. No. 1,930,617 issued on Oct. 17, 1933 to Eugene F. Huot.

The improvement herein results in simplifyng the manufacture of the outer housing and the structure connection therewith to carry the drill holding member therein. The improvement specifically relates to a removable insert disposed within the outer casing to pivotally support the drill holding member within said outer housing.

It is an object of this invention therefore to provide a drill holding case or outer housing having means removably disposed therein to pivotally support a drill holding member.

It is more specifically an object of the invention herein to provide an outer housing, an insert removably disposed within said housing, said insert comprising a pair of spaced side walls having aligned pairs of inward projecting collars struck therefrom forming bearings and a drill holding member having a pair of outward projections struck therefrom journaled into an aligned pair of said first collars to be pivotally supported thereby.

These and other objects and advantages of the invention will be set forth in the following description made in connection with the accompanying drawings in which like reference characters refer to similar parts throughout the several views and in which:

FIG. 1 is an exploded view in perspective;

FIG. 2 is a view in perspective of an assembled portion of the device herein;

FIG. 3 is a view in perspective on an enlarged scale showing the device herein;

FIG. 4 is a broken view in vertical section on an enlarged scale taken on line 4—4 of FIG. 3 as indicated; and

FIG. 5 is a broken view in vertical section of a detail of structure herein taken on line 5—5 of FIG. 4 as indicated.

DESCRIPTION OF A PREFERRED EMBODIMENT

Referring to the drawings, the device herein comprises a drill holding case indicated generally by the reference numeral **10** and said case comprises a housing **12** having end walls **14** and **16** and side walls **18** and **20.** In the embodiment here illustrated, the side wall **18** is shown to have a somewhat greater length than the side wall **20** wherein the end wall **16** has an angular relationship to the end wall **14.** Said housing has a bottom wall **23** and hinged to said side wall **18** by a conventional piano type hinge **24** is a shallow lid or cover **25.**

A substantially U-shaped plate member **27** forms a removable insert for said housing comprising an end wall **29** having a pair of right angled forwardly extending side walls **31** and **32** and struck or punched therefrom and formed thereon as here shown are aligned pairs of inwardly projecting annular collars **35–36** and **37–38** forming bearings. Said collars are best illustrated by the collar **35** as shown in FIG. **5.**

Said end wall **29** of said insert has a narrow upper inwardly extending flange **40** forming a back rest for the member **50** to be described and has a lower inwardly extending flange **41** of somewhat greater width.

With said insert **27** being disposed in said housing **12** as indicated in FIG. **3,** a pair of tongue members **44** are struck from the bottom wall **23** of said housing and are bent inwardly to overly said flange **41** to removably secure said insert within said housing.

A drill holding member **50** such as illustrated is provided to be disposed within said insert **27.** The specific design of said drill holding member is not part of the invention herein with the exception of its interfitting relationship with said insert **27** as will be described.

Said drill holding member comprises a back wall **51** having side walls **52** and **53.** Carried between said side walls and secured to said back wall is a channel member **55** having its upper and lower walls apertured to provide graduated scaled openings to receive drills therein, said drills resting on the bottom wall **57** of said member **50.**

Adjacent the lower ends of said side walls **52** and **53** are a pair of outwardly struck or punched projections here shown forming projecting annular shoulders **60** and **61,** said shoulders being of such a diameter as to be received and accommodated within a pair of said aligned annular collars of said insert **27** such as annular collars **35** and **36.** Illustrative of said shoulders is the shoulder **60** shown in FIG. **5** journaled within said bearing or annular collar **35.** Thus said drill holding member **50** is pivotally disposed or mounted within said insert **27** and is raised to a vertical position as indicated in FIG. **3** for the insertion or removal of drills and for storage purposes said member **50** is pivoted or swung forwardly into a horizontal position.

With reference to FIG. **3** a second drill holding member **65** is indicated and will be of a structure as described in connection with the member **50.**

The use of the above device is believed to be quite obvious from its description and the device provides a safe storage for drills and a convenient means for carrying drills about while having them handily disposed in a graduated relationship for ready use. The use of the insert **27** represents a substantial reduction in the otherwise cost of fabricating the outer housing or case to serve a like purpose.

It will of course be understood that various changes may be made in form, details, arrangement and proportions of the parts without departing from the scope of the invention herein which, generally stated, consists in an apparatus capable of carrying out the objects above set forth, in the parts and combinations of parts disclosed and defined in the appended claims.

I claim:

1. A drill holding case structure having in combination

a housing having a bottom wall and upstanding end and side walls,

a substantially U-shaped plate member comprising an end wall and forwardly extending side walls forming an insert member,

projecting inwardly of said side walls are aligned pairs of collars,

means removably securing said insert member within said housing,

a drill holding member comprising a back wall and projecting side walls,

a pair of aligned outwardly extending projections adjacent the bottoms of said side walls received

within a pair of said aligned projecting collars of said insert member, whereby said insert member has said drill holding member pivotally disposed therein and is then disposed within said housing,

a flange projecting from the bottom of the end wall of said insert member, and

a tongue struck from said bottom wall of said housing engages said projecting flange removably securing said insert member.

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