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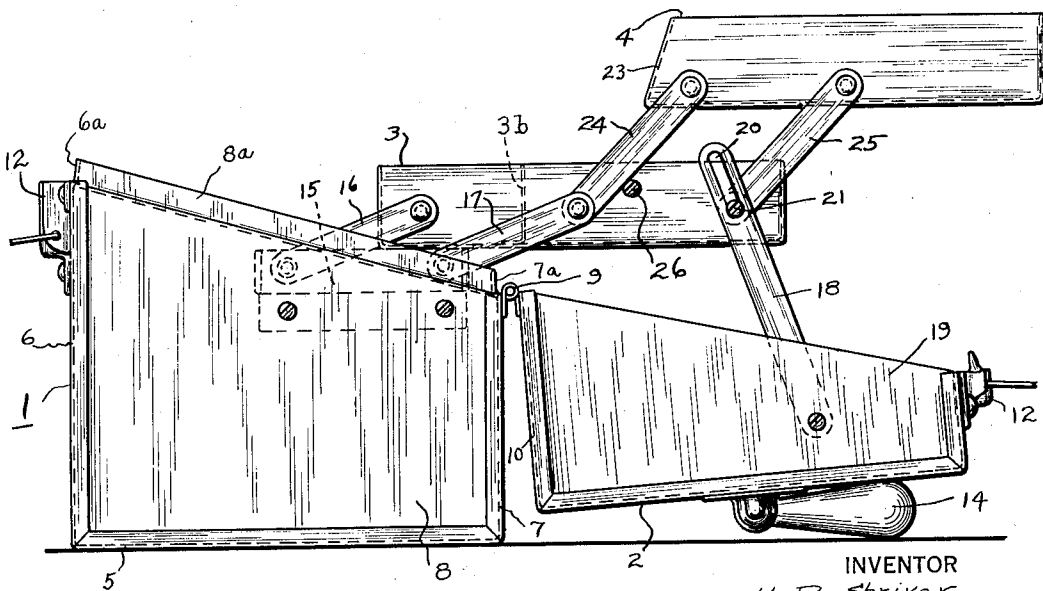
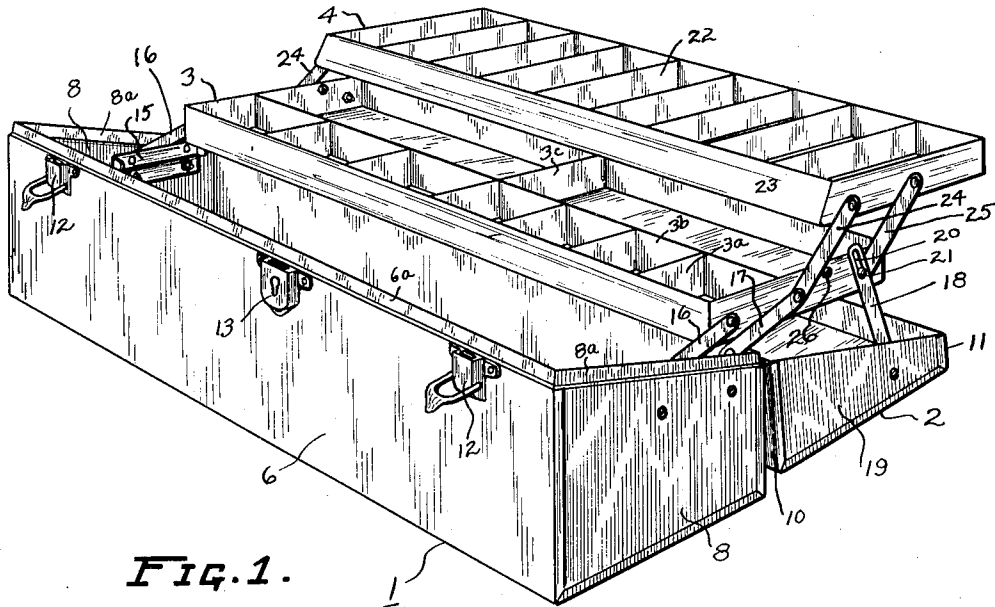
H. P. SHRIVER

1,925,409

KIT

Filed Nov. 6, 1926

2 Sheets-Sheet 1



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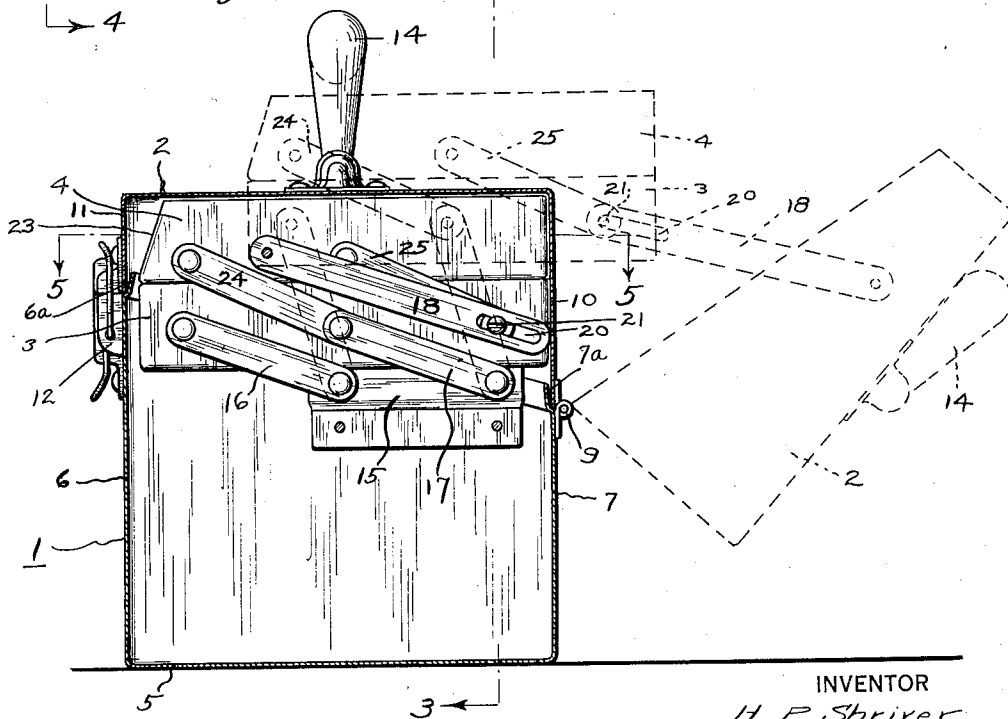
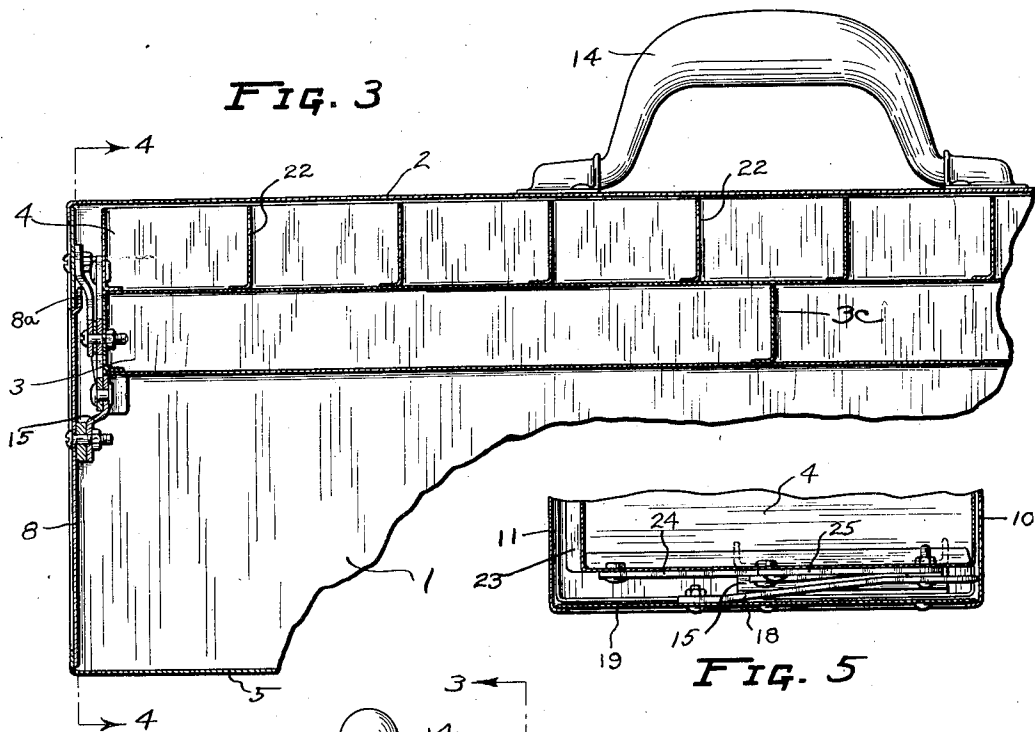
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•KIT

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

1,925,409

KIT

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Application November 6, 1926. Serial No. 146,665

4 Claims. (Cl. 206—16)

This invention relates to kits and more particularly to such kits having trays nestable therein.

5 An object of this invention is to provide a kit having a cover and trays nestable in said kit when the cover is closed.

Another object of the invention is to provide a kit including a box having a front side higher than the rear side, said kit containing a tray 10 movable into outwardly extended position by the opening of the cover.

A further object of the invention is to provide a kit having a pair of trays, the upper of said trays being movable independently of the first 15 tray to a predetermined position whereby access may be obtained to either of said trays when said second tray is in extended position.

Another object of the invention is to provide a kit including a box, a cover, a tray, and linkage, said linkage including a slotted link connected to the cover and the tray, said link inclining upwardly from said cover and toward the box when the cover is in open position, whereby to prevent substantially the tray from tipping 25 the box when in open position.

A further object of the invention is to provide a kit having a box and a cover and a tray movable outwardly into extended position by the opening of the cover, and a second or upper tray 30 secured by independently operable means to said first or lowermost tray whereby said second or upper tray may be independently swung into outwardly extending position to gain access to said lowermost tray.

35 Another object of the invention is to provide a kit having a box and a cover and a plurality of trays, the lowermost of said trays being moved into open position by the opening of the cover, said cover being arranged to be supported from the surface upon which the box rests, linkage being arranged to support said lowermost tray from the cover in open position, whereby to substantially prevent the trays from overbalancing the kit when in extended position.

45 Other objects of the invention will be apparent to those skilled in the art from the description of it hereinafter given.

My invention contemplates in one embodiment thereof a sheet metal kit for carrying fishing 50 tackle and the like. For this purpose it is desirable to have a plurality of readily accessible trays containing various forms of tackle or other articles. When the kit is in closed position the trays preferably fit one on top of the other 55 and nest within the box. Upon opening of the

cover the lowermost tray is automatically brought into outwardly extended position. If the object to be sought is in the upper tray, this tray is in accessible position. If it is desired to obtain access to the lower tray, the upper tray may then 60 be independently extended outwardly and upwardly to a predetermined position which will provide access to the lower tray and yet which will not tend appreciably to overbalance or tip over the kit.

65 The lowermost tray is not only moved into extended position by the opening of the cover but the same means which causes the lower tray to be extended by the cover serves to prevent the kit from becoming overbalanced when the trays 70 are extended. This may be conveniently accomplished by slotted links connected to the cover and lower tray. The cover in turn is arranged to be supported from the surface upon which the kit is disposed, as by the handle of the cover 75 resting on the surface. Thus, in effect, the said first or lowermost tray is supported directly from the surface upon which the kit rests. The links connecting the cover and the lowermost tray, moreover, preferably incline upwardly and toward 80 the box when the cover is open, thereby serving further to prevent overbalancing of the kit when the trays are extended.

In the drawings:

Figure 1 is a perspective view of a kit embodying my invention, the cover being open and both trays in extended position; 85

Figure 2 is an end elevation of the kit shown in Fig. 1 showing the cover open and both trays in extended position; 90

Figure 3 is a vertical longitudinal section on line 3—3 of Fig. 4, showing the kit with the trays and cover in closed position;

Figure 4 is a vertical transverse section through the kit taken on line 4—4 of Fig. 3; and 95

Figure 5 is a horizontal sectional view taken on line 5—5 of Fig. 4.

The kit shown in the drawings comprises a box 1, cover 2 and trays 3 and 4. The box 1 has the bottom 5, side walls 6 and 7 and end 100 walls 8. The front side 6 is shown as being higher than the rear side 7 whereby a cover of smaller vertical dimensions may be employed. The upper portion of the said end and side walls may preferably be inset as at 6a, 7a and 8a 105 whereby the outer surface of the cover may be caused to meet flush with the outer surface of the box 1. The cover 2 which is secured to the box 1 by the hinges 9 is provided with a rear wall 10 and a shorter front wall 11 to provide 110

a kit of rectangular vertical section when the cover is closed. Fastening means 12 and 13 may be provided to secure the cover 2 and box 1 in closed relation. The cover 2 is provided with a suitable handle 14 which, when the cover is open, is adapted to rest upon a surface upon which the box 1 may be disposed. Within the box 1 and secured to the ends thereof are shown the brackets 15 which may be secured to the end walls 8 by suitable fastening means such as rivets or nuts and bolts. The trays 3 and 4 are supported on the brackets 15 when the kit is in closed position.

The first or lowermost tray 3 is shown as provided with partitions 3a, 3b and 3c to provide compartments of desired size for the articles to be carried,—for example, fishing tackle. To each end of the tray 3 are secured ends of links 16 and 17, which links are of equal length. The opposite ends of the links 16 and 17 are secured to the brackets 15 in such manner that the effective lengths of the links 16 and 17 are equal and that said links remain in parallel relation to one another. Slotted links 18 are shown as pivotally secured adjacent one end thereof to the inner faces of the end walls 19 of the cover 2 by suitable fasteners. These links 18 are connected through the slots 20 to the pins 21 secured to the ends of the trays.

The second or upper tray 4 is shown as provided with partitions 22 to provide compartments of the desired size and shape. The front wall 23 of the tray 4 is shown as inclined rearwardly so as not to interfere with the opening and closing of the cover. This function is clearly illustrated in Fig. 4. Links 24 and 25 are shown secured at their ends to the trays 3 and 4 respectively whereby the upper tray 4 may readily be moved independently of the lower tray 3. Stops 26 are provided whereby, when the upper tray 4 is moved into extended position, the said tray may be caused to take a predetermined position with respect to the lower tray 3.

When the kit is in closed position and the cover is opened, the slotted links 18 cooperate with the pins 21, as illustrated in the dotted lines in Fig. 4, to pull the lower tray into the outwardly extending position shown in Figs. 1 and 2 whereby the lower tray 3 extends outwardly over the cover 2. The upper tray 4 meanwhile remains in superimposed position on the lower tray 3. When the lower tray 3 is in outwardly extending position, it and the upper tray are supported in part by the links 18, the pins 21 resting upon the bottoms of the slots 20. When the cover is open, it will also be noted that the links 18 incline upwardly toward the box 1. Since the handle 14 rests upon the surface upon which the box 1 is disposed, the tray 3 is in effect supported at its rearward end from said surface through the handle 14, cover 2 and links 18. The portion of the handle contacting with the surface upon which the box is disposed thus acts as a fulcrum support rearwardly of the box 1, thereby greatly minimizing or substantially eliminating any tendency of the kit to be overbalanced or tipped over.

When the cover is opened, the second or upper tray 4 still remains superimposed on the lower tray 3 in the same relation thereto as when the kit was closed. Thus, where it is desired to have access to the upper tray 4 it is merely necessary to open the cover 2. Where, however, it is desired to have access to the lower tray 3, the upper tray 4 may be independently moved manually to the position shown in Fig. 1. It will be

noted that the stops 26 limit the movement of the links 24 and 25 so that the upper tray 4 is spaced sufficiently far in a vertical direction from the lower tray 3 to permit ready access to all portions of the lower tray 3. The use of such stops 26 permits the use of relatively short links 24 and 25, thus rendering the kit more compact and minimizing any overbalancing effect of the upper tray 4 when extended, for the reason that the shorter the links the less distance rearwardly can the upper tray 4 extend.

To close the kit from the position shown in Fig. 1, the upper tray 4 may first be disposed manually upon the lower tray 3 or not, as desired. If the upper tray 4 is not manually superimposed upon the lower tray 3, the cover 2 when raised and moved to closed position cooperates with the upper tray to push it into position on the lower tray 3 and then by means of the slotted links 18 moves both trays into nested position within the box 1.

It will thus be seen that I have provided an advantageous kit having trays to which access is readily available, the kit having a minimum tendency to overbalance when open, and providing a neat and compact carrying means when closed. It will also be seen that while the invention has been shown as a sheet metal kit, it can obviously be constructed of fiber, wood, or other materials.

Furthermore, it is to be understood that the particular forms of apparatus shown and described, and the particular procedure set forth, are presented for purposes of explanation and illustration and that various modifications of said apparatus and procedure can be made without departing from my invention as defined in the appended claims.

What I claim is:

1. A sheet metal kit comprising, in combination, an open top box, a cover hinged to said box, a plurality of superposed trays, links secured to the lowermost of said trays and to said box, links secured to said lowermost tray and to said cover, said links being so arranged that opening said cover will move said lowermost tray from a position within said box to a position over the rear wall of said box, said trays still remaining in superposed position, independently operable means for disposing the upper of said superposed trays in stepped relation to the lower tray, and means for holding said upper tray in spaced relation to the lower tray when said trays are in stepped position.
2. A kit comprising, in combination, an open top box, a cover hinged to said box, a tray nested within said box, pairs of links secured to said tray and to said box, links secured to each end of said tray and to said cover, all of said links being so arranged that moving said cover will move said tray from a nested position within said box to an outwardly extended position over a wall of said box, a second tray normally seated on and superposed above said first tray, links connecting said trays for independently moving said second tray outwardly over said first tray, and means on said first tray for limiting the outward movement of said second tray and holding said second tray in outwardly extending position in upwardly spaced relation to said first tray.
3. A kit comprising, in combination, an open top box, a cover hinged to said box, a tray nested within said box, pairs of links secured to said tray and to said box, links secured to each end

of said tray and to said cover, all of said links being so arranged that opening said cover will move said tray from a nested position in said box to an outwardly extending position over a wall of said box, a second tray normally seated on and superposed above said first tray, links connecting said trays for independently moving said second tray outwardly over said first tray, outwardly extending lugs on said first tray engageable with said last mentioned links for limiting the outwardly extending movement of said second tray and holding said second tray in outwardly extending position in upwardly spaced relation to said first tray.

4. A kit comprising, in combination, an open top box, a cover hinged thereto, a tray normally nested within said box, side links connecting said tray and said box, pivot pins on said box and tray for pivotally supporting said connecting links, slotted links pivoted to said cover and having the slots therein slidably received by certain of the pivot pins carried by said tray, said links during complete opening movement of the cover causing said tray to move from nested position to an outwardly extending position over a wall of said box, and to permit said cover to be opened approximately 90 degrees without disturbing the tray nested within said box, a second tray normally seated on and superposed above said first tray, links connecting said trays for independently moving said second tray outwardly over said first tray, and means for holding said upper tray in upwardly spaced relation to the lower tray when said trays are in extended position.

HARRY P. SHRIVER.

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75	150