

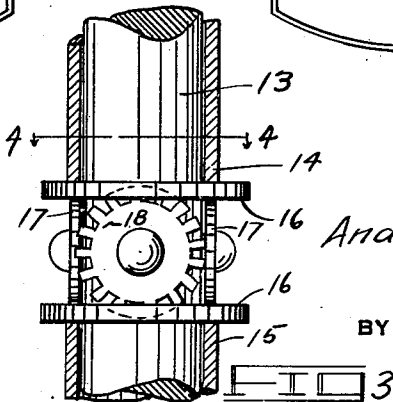
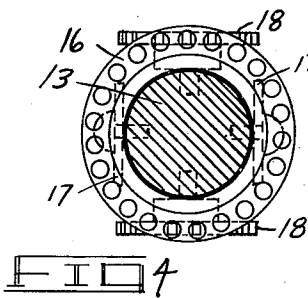
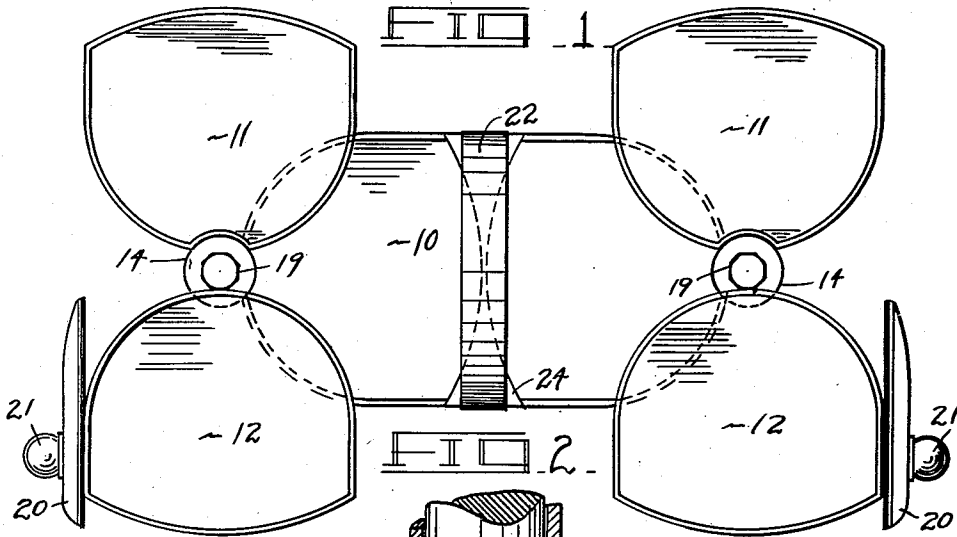
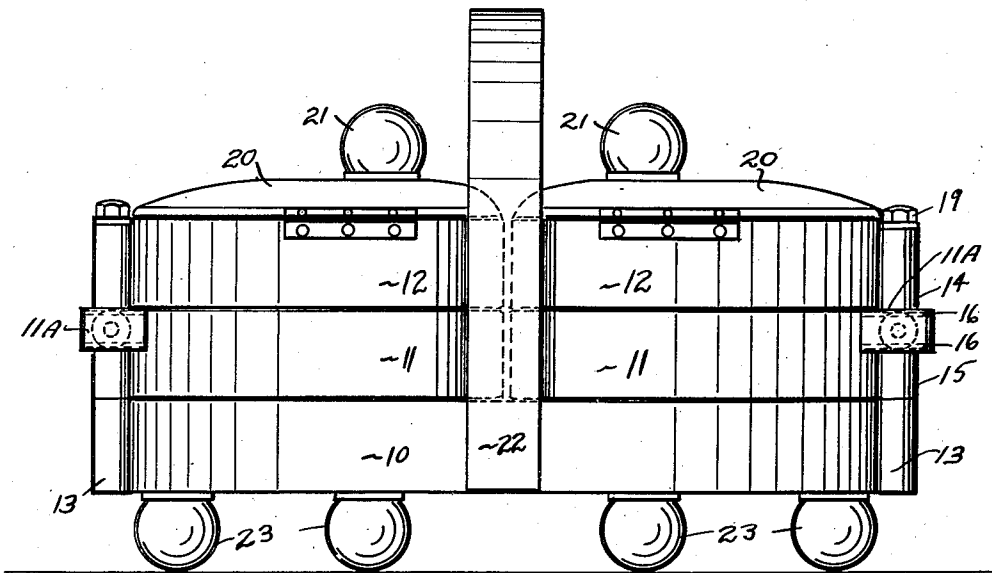
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MENDING KIT

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MENDING KIT

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4 Claims. (Cl. 312-152)

This invention relates to a mending kit.

The principal object of this invention is the provision of a mending kit incorporating a novel opening principle by means of which manual movement of one of the top trays thereof automatically causes movement in an opposite direction of another of the trays thereof so that the entire section of the mending kit is opened with a single movement.

A further object of the invention is the provision of a mending kit comprising a plurality of trays normally positioned one above the other so that each successive tray acts as a closure for the other, the uppermost trays being provided with separate lid portions as closures therefor.

A further object of the invention is the provision of a mending kit comprising two oppositely disposed sections of trays positioned on a single tray serving as a base and the whole provided with a convenient handle.

The mending kit shown and described herein has been designed to provide an attractive and convenient mending kit the various tray portions of which are quickly made available by simple sideward movement of the topmost tray of each section thereof, gear means in connection with pivot bearings of the said trays serving to reverse the sideward movement with respect to the different layers of trays.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side elevation of the mending kit showing the various trays thereof in closed position.

Figure 2 is a top plan view of the mending kit showing the various trays thereof in open position.

Figure 3 is an enlarged detail view showing the gearing means utilized to accomplish the simultaneous opening of the various trays.

Figure 4 is a cross sectional elevation taken on lines 4-4 of Figure 3.

By referring to the drawing and Figure 1 in particular it will be seen that the mending kit comprises a bottom tray 10 and a pair each of

center and upper trays 11 and 12, respectively, positioned thereon in a movable manner. The pairs of center and upper trays 11 and 12, respectively, are movably positioned with respect to the tray 10 by reason of a tubular bearing assembly formed at each end of the tray 10 and extending upwardly. Each of these tubular bearing assemblies comprises a vertically positioned bearing post 13 and two tubular sleeve sections 14 and 15 each of which terminate in opposed flanges 16 which are held in uniform separation and engagement by means of a pair of rollers 17 and a pair of gears 18, the gears 18 engaging annularly positioned perforations in the flanges 16 so that clockwise rotation of the tubular sleeve 14 and its flange 16 will result in anti-clockwise rotation of the tubular sleeve 15 and its flange 16 by reason of the reversal of movement through the gears 18. It will be seen that the sleeves 15 rest upon shoulders formed on the posts 13 at a point even with the top of the bottom tray 10. A nut 19 is threadably positioned upon a washer positioned on the upper end of the post 13 and sleeve 14 so as to insure the proper placement of the various component parts of the gear and bearing assembly. It will thus be seen that due to the fact that the tubular sleeves 14 and 15 are affixed to and serve to carry the trays 12 and 11, respectively, that movement of either of the trays 12 automatically results in an opposite movement of the tray 11 thereunder and further it will be seen by referring to Figure 2 that due to the rounded shape of the trays and positioning of the bearing and gearing assemblies the three trays comprising each half section of the mending kit are opened almost completely thus assuring the practical and efficient use of the space therein as the same is readily accessible. Housings 11a adapted to conceal the gearing are positioned about each of the gearing assemblies and are attached to and carried on the trays 11 as shown in Figure 1. In order to more definitely show the gearing assemblies the housing has not been shown in Figures 2, 3 and 4 of the drawing.

By again referring to the drawing it will be seen that each of the trays 12 are provided with hinged lid portions 20 and that these lid portions 20 are in turn provided with knobs 21 so that the same may be readily opened. In this connection it is obvious that, if desirable, latches may be incorporated in the lid structure to insure the closure thereof. It will also be seen by referring to the middle section of the mending kit that a convenient handle 22 is positioned on

the sides of the tray 10 and extends upwardly over the mending kit assembly in a practical and convenient manner. The tray 10 is also provided with a plurality of relatively short legs 23 all of which serves to enhance the attractiveness of the completed article.

By referring to Figure 2 of the drawing it will be seen that a central section 24 is provided in connection with the upper surfaces of the tray 10 in order to suitably close the opening necessary between the movable trays 11 and 12 and in this connection it is obvious that this closure may be varied in form so as to partially or completely fill or close the space between the trays 11 and 12 when in closed position.

It will thus be seen that a mending kit has been designed comprising several trays neatly grouped together and assembled in such manner that upon the manual movement of either of the uppermost trays to either side the tray immediately therebelow is caused to move in the opposite direction so that in effect the two trays open fan like thus making available for use the lowermost tray of the kit. It will further be seen that the fan like opening movement is occasioned by an extremely simple gearing mechanism wherein movement of the supporting tubular sleeves of the trays results in a reversing gear action to effect the movement desired.

What I claim is:

1. A mending kit comprising a tray, a plurality of legs on said tray together with a handle for the same, a plurality of secondary trays positioned above the said tray, the said secondary trays arranged in pairs, each of the said pairs of secondary trays pivoted to a common axis, gear means positioned at the said axis adapted to re-

verse motion imparted to one of the secondary trays so as to effectively move the other of the pair of secondary trays in the opposite direction.

2. A mending kit comprising a tray, a plurality of secondary trays positioned above the said tray, said secondary trays arranged in pairs, each of the said pairs of secondary trays pivoted to a common axis, means positioned at the said axis adapted to reverse motion imparted to one of the secondary trays so as to effectively move the other of the pair of secondary trays in the opposite direction.

3. A mending kit comprising a tray, a plurality of secondary trays positioned above the said tray, the said secondary trays arranged in pairs, a sleeve affixed to each of the said secondary trays, each of the said pairs of secondary trays pivoted to a common axis by means of the said sleeves, gear means positioned between the said sleeves at the said axis adapted to reverse motion imparted to one of the said secondary trays so as to effectively move the other of the pair of secondary trays in the opposite direction.

4. A mending kit comprising a tray, a plurality of legs on said tray together with a handle for the same, a plurality of secondary trays positioned above the said tray, the said secondary trays arranged in pairs, each of the said pairs of secondary trays pivoted to a common axis, gear means positioned at the said axis adapted to reverse motion imparted to one of the secondary trays so as to effectively move the other of the pair of secondary trays in the opposite direction, together with lids hinged to the uppermost of the said trays.

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