Sept. 3, 1929. M. MIRKIN 1,726,752

BATHTUB

Filed March 26, 1928 2 Sheets-Sheet 1

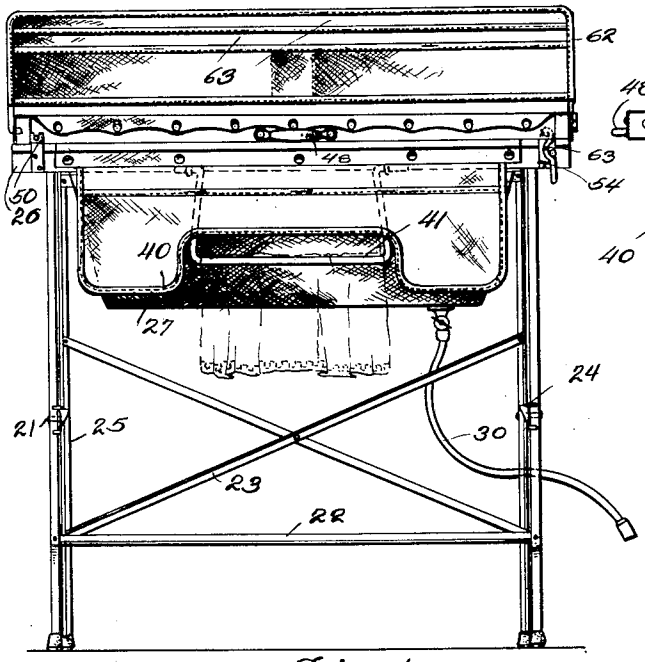
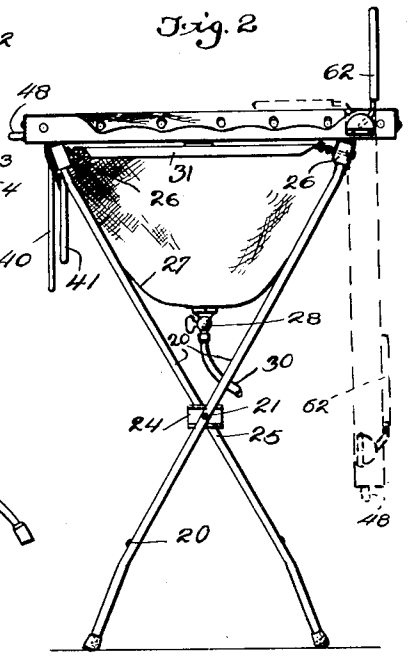


Fig. 1

Fig. 2



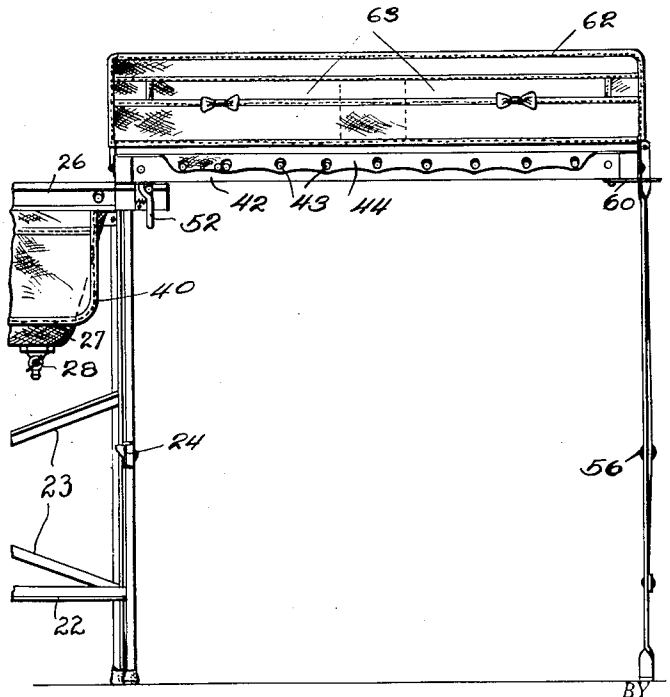


Fig. 3

Fig. 4

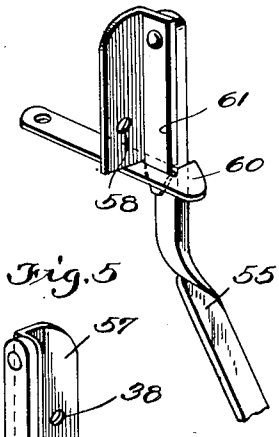
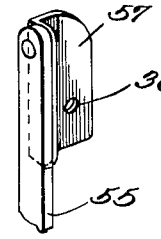


Fig. 5



INVENTOR.
Max Mirkin
BY
ATTORNEYS

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BATHTUB

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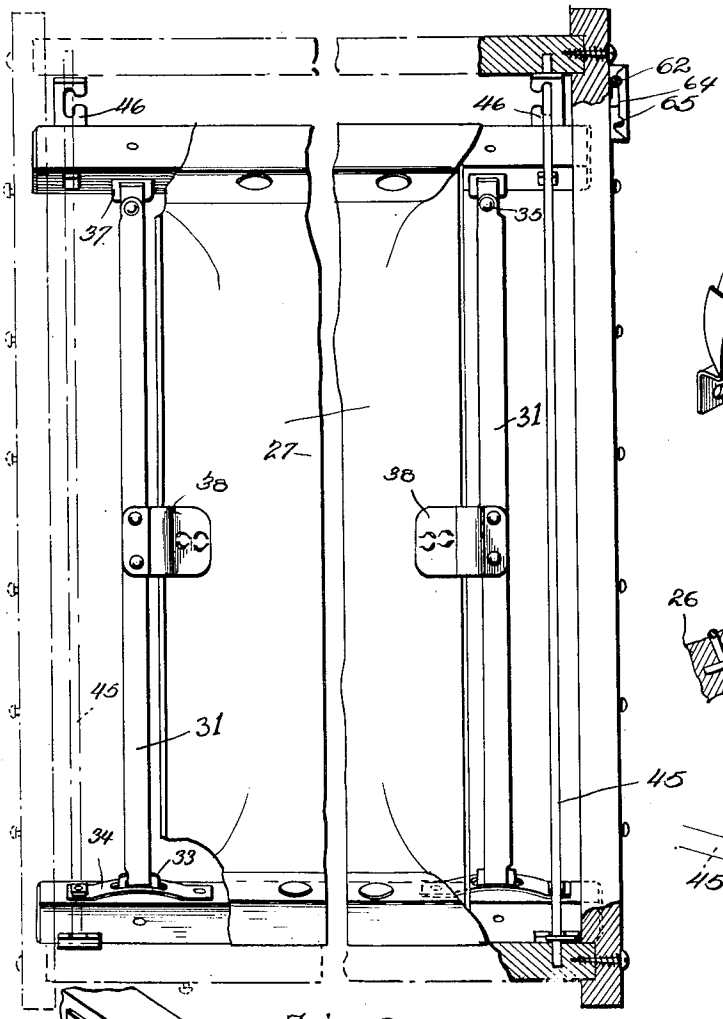


Fig. 6

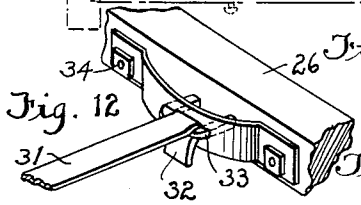


Fig. 12

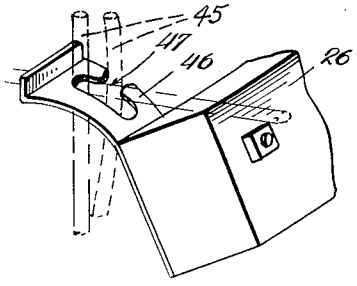


Fig. 10

Fig. 7

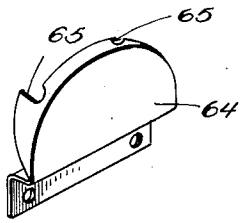


Fig. 8

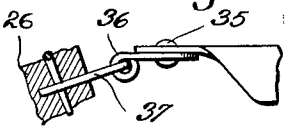


Fig. 9

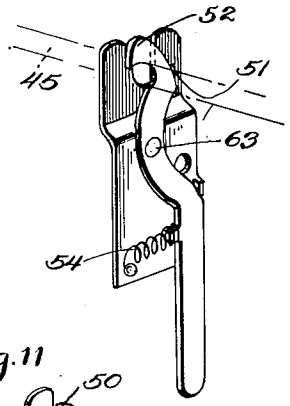
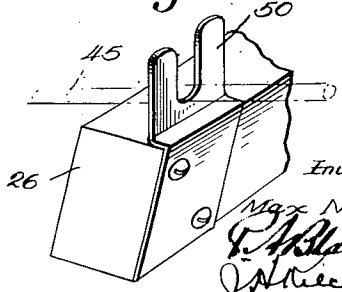


Fig. 11



Inventor
Max Mirkin
Attorneys

Patented Sept. 3, 1929. 1,726,752

UNITED STATES PATENT OFFICE.

MAX MIRKIN, OF NEW YORK, N. Y., ASSIGNOR TO HARRY RUDMAN, OF NEW YORK, N. Y.

BATHTUB.

Application filed March 26, 1928. Serial No. 264,836.

This invention relates to improvements in bath tubs and more particularly that type of collapsible bath tub suitable for use in washing or bathing children.

One of the objects of the present invention is to provide a simple and practical bath tub of the above general character which may be inexpensively manufactured and assembled.

A further object is to provide an article of the above character which will be very strong and durable and maintain its set up position without danger of collapsing or spilling the contents of the tub.

A further object is to provide a tub of the above character with various attachments and accessories whereby the device as a whole will be most convenient and serviceable in use and operation.

A further object is to provide a bath tub of the above general character with a dressing table attachment which may be easily moved from operative to inoperative position, or vice versa, or whereby the same dressing table attachment may be permanently set up adjacent the tub.

A further object is to provide various locking and holding features in a tub of this character whereby there will be no danger of the tub collapsing, and when the parts are collapsed, will remain in their collapsed position.

A further object is to provide a structure of the above general character with various braces connected with the frame for convenience of manipulation and to avoid danger of splitting or tearing the flexible material of which the tub itself is made.

Other objects will be in part obvious from the annexed drawings and in part hereinafter indicated in connection therewith by the following analysis of this invention.

This invention accordingly consists in the features of construction, combination of parts and in the unique relation of the members and in the relative proportioning and disposition thereof, all as more completely outlined herein.

To enable others skilled in the art to fully comprehend the underlying features thereof that they may embody the same by the numerous modifications in structure and relation contemplated by this invention, drawings depicting a preferred form of the invention have been annexed as part of this disclosure, and in such drawings, like characters of reference denote corresponding parts throughout all of the views, of which—

Fig. 1 is a front elevational view of the tub with the dressing table in position;

Fig. 2 is an end elevational view of the same;

Fig. 3 is a fragmentary view similar to Fig. 1 showing the same table differently located or positioned with respect to the tub;

Fig. 4 is a detail view showing one of the detachable legs of the table when used as in Fig. 3;

Fig. 5 is a similar view of another detail;

Fig. 6 is an enlarged detail plan view, partly in section, showing certain details of construction;

Fig. 7 is a detail perspective view of one of the locking means for holding the back rack in place;

Fig. 8 is a detail view of one of the side braces;

Fig. 9 is a detail perspective view of one of the locking means for holding the dressing table in place;

Fig. 10 is a detail perspective view showing the manner in which the dressing table is attached to the tub;

Fig. 11 is a detail perspective view of one of the forward supports for the dressing table.

Fig. 12 is a detail perspective view of a securing means.

It is, of course, realized that collapsible dressing tables of the general character herein set forth are old and well known, as illustrated in my prior patent, No. 1,650,720, November 29, 1927, and the present invention is directed to certain improvements in such construction.

Referring now to the drawings in detail, 20 indicates the supporting legs for the tub. These are preferably made of stamped out metal and are pivotally connected at 21, whereby the tub may be collapsed in the manner hereinafter set forth. The legs are longitudinally connected along their lower ends by horizontal braces 22, as well as diagonal braces 23, thereby to provide a substantial structure free from endwise movement when the tub is set up and filled with water. It will be noted particularly that a stamped sheet metal brace 24 is also used at the point 21, which brace includes extending lugs 25 adapted to engage the legs 20 thereby to limit their expanding movement beyond a

predetermined amount. This positively prevents a tearing of the fabric or any strain whatsoever during the unfolding of the tub.

The upper parts of these supporting legs are connected preferably by longitudinally extending wooden strips 26 to which the tub itself is directly attached. The tub 27 may be made of any suitable collapsible material such as rubberized fabric, and is provided with a valve or spigot mechanism 28 to permit draining of the tub, as well as filling, for it is quite obvious that the tube 30 may have its free end connected with the bath tub spigot for filling the tub or be left free for draining the tub.

Transversely extending between the bars are braces 31. These braces 31 are shown more clearly in Fig. 6, and are preferably made from stamped sheet metal having hooks 32 at one end adapted to snap into eyelets 33 and be held in place by means of band springs 34, Fig. 12. The opposite ends of these braces 31 are pivotally connected at 35 to provide a laterally swinging movement with respect to a hook-like member 36, which passes thru a slotted member 37 permanently secured in any desired manner to the rear strip 26. These details of construction are shown clearly in Fig. 8. This universal joint construction is very desirable inasmuch as it permits the braces during assembly to be swung laterally, as well as vertically, clear of the tub and then dropped downwardly and vertically into place. It will also be noted that these end braces 31 carry supporting members 38 from which an adjustable support may be suspended as shown clearly in my prior patent above referred to.

The front of the bath tub is preferably provided with a depending curtain 40 having pockets for holding wash-cloths, soap or the like, as well as a pivotally mounted depending towel rack 41. Both of these members swing relatively inwardly when the tub is collapsed.

Considering now the dressing table, this comprises a rectangular frame work 42 having a plurality of buttons 43 along each side, to which the cover 44 may be detachably secured. This cover itself is preferably of heavy canvas and mounted in such a way that it may be easily and quickly taken off to be cleaned. The table as shown more clearly in Fig. 6 is provided parallel to each end, but spaced slightly inwardly therefrom with bars or wires 45 which are adapted to coact with a curved supporting means 46 secured to the longitudinal members 26 as shown clearly in Fig. 10. These wires 45 are adapted to be sprung into a recess 47 and held in position whereby when the table top is grasped by the handle 48, in Fig. 2, it may be moved upwardly and rearwardly having a combined sliding and pivotal movement by reason of the wire and slotted construction above described until it hangs in a vertical position as indicated in dotted lines. When it is desired to restore the table top to its horizontal position of use, then the handle 48 is grasped and swung upwardly and forwardly and then down into the horizontal position. The forward ends of the wires rest in the supports shown in Figs. 9 and 11. At one side of the support 50 shown in Fig. 11, there is a sheet metal notch into which the wire 45 is rested. The wire 45 at the opposite end, as shown in Fig. 9, rests in a similar slotted sheet metal member 51, but is held in locked position by means of latch 52 pivoted at 53 and held by its locking position as by means of a spring 54. Thus, the table is rigidly secured in place and held against movement in any direction by means of the braces 50, 51 cooperating with the supports 46 on the opposite rail 26 and also held against unintentional upward movement.

If desired, this same identical dressing table may be provided with detachable legs and mounted in the manner shown in Fig. 3. These legs 55, as indicated in Figs. 4 and 5, are pivotally connected at 56, and their upper ends provided with brackets 57 secured in any desired manner as by means of screws passing thru holes 58 into the end frame of the table top. One of these legs is preferably provided with a catch 60 secured to the end side of the frame as shown in Fig. 3 and yieldingly held in locking engagement by means of leaf spring 61. In this manner, there is no danger of the legs 55 moving in their lateral direction, thereby unintentionally allowing the table top to collapse.

It will also be noted that the table top regardless of the position in which it is attached to the tub is provided with a back rack 62 provided with pockets 63 for holding talcum powder or other accessories. This back rack is pivotally mounted at its ends to the frame work of the dressing table and includes an upwardly extending wire frame adapted to cooperate with a locking device as shown more clearly in Figs. 6 and 7. In other words, the end wires of the frame 62 are pivoted at 64, but are adapted to snap into notches 65 and be held in either raised or lowered positions, as shown in Fig. 2. Were it not for this construction, it will be apparent that when the dressing table is moved to the dotted line position shown in Fig. 2, then this back rack would occupy a horizontal position tending to allow the contents of the pockets 63 to roll out. If, however, this back rack is swung upwardly to the dotted line position shown in Fig. 2 prior to the removal of the dressing table, then the contents of the pockets will occupy a vertical position without danger of dropping out.

From the above, the operation and method of use of the present device should be clear, especially when taken in connection with my

prior patent above referred to, and it is probably unnecessary to go into the details thereof. It will be seen from the description and drawings that the present invention contemplates a simple and practical device, which will be safe in use and operation, free from any lateral or longitudinal movement tending to spill the water when the tub is in use and provided with a removable and alternately applicable dressing table for use in connection with the tub, upon which the child may be conveniently placed while being dried and dressed.

Without further analysis, the foregoing will so fully reveal the gist of this invention that others can by applying current knowledge readily adapt it for various applications without omitting certain features that, from the standpoint of the prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention, and therefore such adaptations should and are intended to be comprehended within the meaning and range of equivalency of the following claims.

I claim:

1. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, and end braces connecting the front and back frame members having a universal connection at one end with one of the frame members, and a locking engagement at their opposite ends with the other frame member.

2. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, and end braces connecting the front and back frame members having a universal connection at one end with one of the frame members, and a locking engagement at their opposite ends with the other frame member, said end braces having supporting brackets intermediate their ends adapted to depend over the sides of the collapsible tub.

3. In a collapsible tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, the rear frame member being provided with notched sheet metal members, and a relatively movable dressing table having a bar associated therewith engaging said notched members whereby the dressing table may be slidably swung upwardly and over the top.

4. In a collapsible tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, the rear frame members being provided with notched sheet metal members, and a relatively movable dressing table having a bar associated therewith engaging said notched members whereby the dressing table may be slidably swung upwardly and over the top, the connection between the table and tub being such as to permit ready removal and separation of the parts.

5. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, the rear frame member being provided with notched members, and a relatively movable dressing table having means associated therewith engaging said notched members whereby the dressing table may be slidably swung upwardly and over the top, and supports on the forward frame member adapted to coact with said dressing table and hold the same in locking position.

6. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table comprising a rectangular frame having transverse wires or the like adjacent and parallel to its ends, and notched devices on the rear longitudinal frame member coacting with said wires whereby the table may have a sliding and swinging movement with respect to the tub in going from horizontal to vertical position.

7. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table comprising a rectangular frame having transverse wires or the like adjacent and parallel to its ends, and notched devices on the rear longitudinal frame member coacting with said wires whereby the table may have a sliding and swinging movement with respect to the tub in going from horizontal to vertical position, and means on the other frame member for holding said table locked in horizontal position.

8. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table having a sliding and swinging movement with respect to said tub, and a back rack pivotally mounted upon said table, and means associated with the pivot for holding said back rack in relatively vertical or horizontal position as desired.

9. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table comprising a rectangular frame member having wires or the like adjacent and parallel to the ends, and cooperating devices on the rear frame member coacting with said wires whereby the table may be attached to the tub either along the longitudinal side or the end side as desired.

10. In a collapsible bath tub of the charac-

ter described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table comprising a rectangular frame member having wires or the like adjacent and parallel to the ends, and cooperating devices on the rear frame member coacting with said wires whereby the table may be attached to the tub either along the longitudinal side or the end side as desired, and means associated with the front longitudinal member for holding said table in locked horizontal position whether secured to the tub along the longitudinal side or the end side.

11. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a dressing table comprising a rectangular frame member having wires or the like adjacent and parallel to the ends, cooperating devices on the rear frame member coacting with said wires whereby the table may be attached to the tub either along the longitudinal side or the end side as desired, means associated with the front longitudinal member for holding said table in locked position whether secured to the tub along the longitudinal side or the end side, and detachable legs associated with said table for supporting the table in horizontal position when mounted at the end of the tub.

12. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a towel rack or the like pivotally suspended from one of said frame members, and a dressing table pivotally suspended from the other of said frame members, and means whereby said dressing table may be slidably swung upwardly and over the tub and locked in position on said first frame member.

13. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, a towel rack or the like pivotally suspended from one of said frame members, a dressing table pivotally suspended from the other of said frame members, and means whereby said dressing table may be slidably swung upwardly and over the tub and locked in position on said first frame member, and braces interposed between said front and rear frame members for holding the same in relative position against expanding or collapsing movement.

14. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, supporting legs for said frame having crossed pivotal connections, means for limiting the pivotal movement of said legs as the table is expanded, braces connecting the front and rear frame members adapted to prevent collapsing of the tub, and a dressing table detachably, pivotally and slidably connected with one of the frame members, whereby it may be applied to the side or end of the tub as desired, and means for locking said table in horizontal position.

15. In a collapsible bath tub of the character described, in combination, main longitudinally extending supporting frame members from which the tub is supported, supporting legs for said frame having crossed pivotal connections, means for limiting the pivotal movement of said legs as the table is expanded, brackets connecting the front and rear frame members adapted to prevent collapse of the tub, and a dressing table detachably, pivotally and slidably connected with one of the frame members, whereby it may be applied to the side or end of the tub as desired, means for locking said table in horizontal position, and a back rack on said dressing table having pockets therein, and means for locking said back rack in substantially vertical or horizontal position as desired depending on the horizontal or vertical position of the dressing table.

Signed at New York, New York, this 20 day of March, 1928.

MAX MIRKIN.