

Nov. 23, 1943.

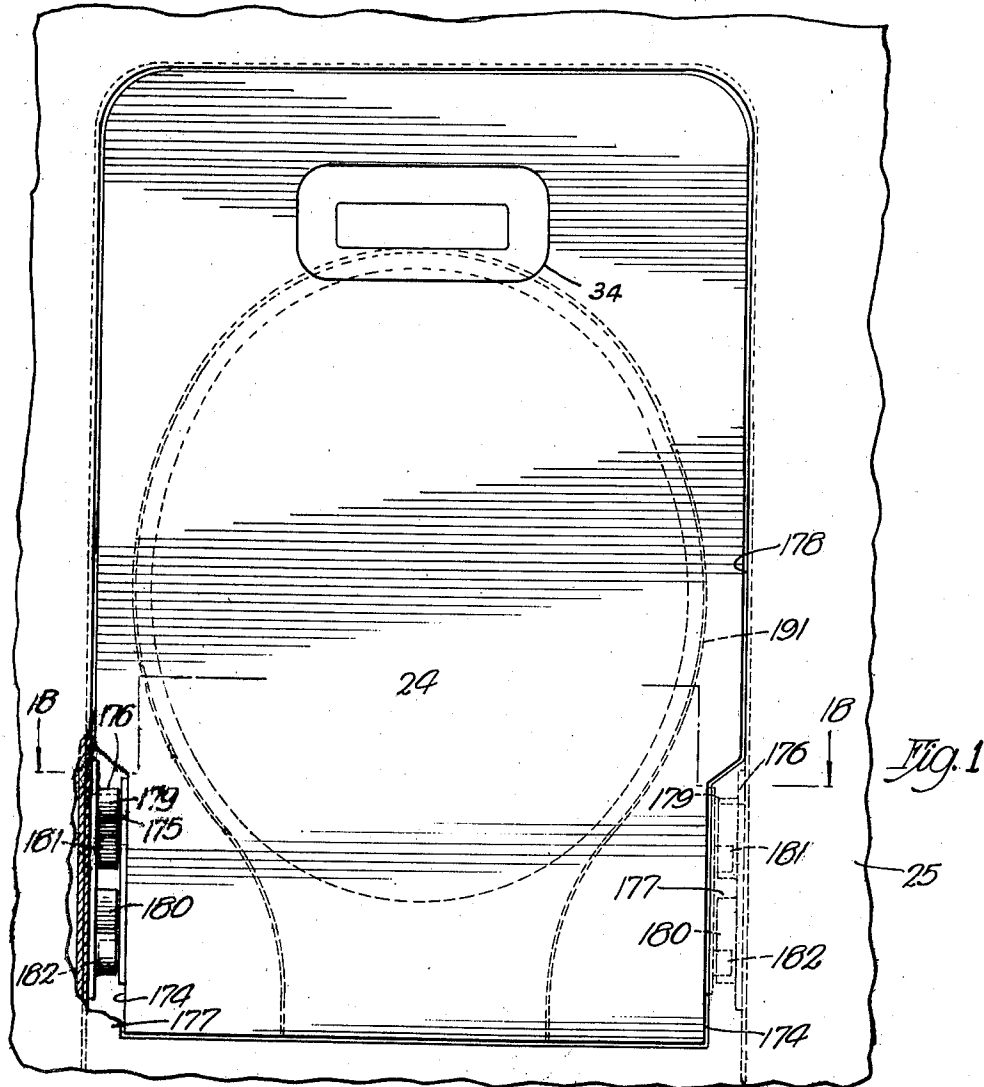
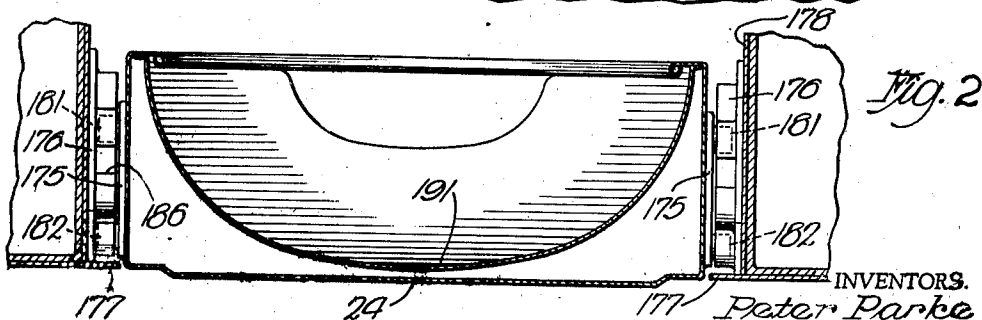
P. PARKE ET AL

2,334,951

FOLDING WASHBASIN

Filed Feb. 15, 1941

2 Sheets-Sheet 1



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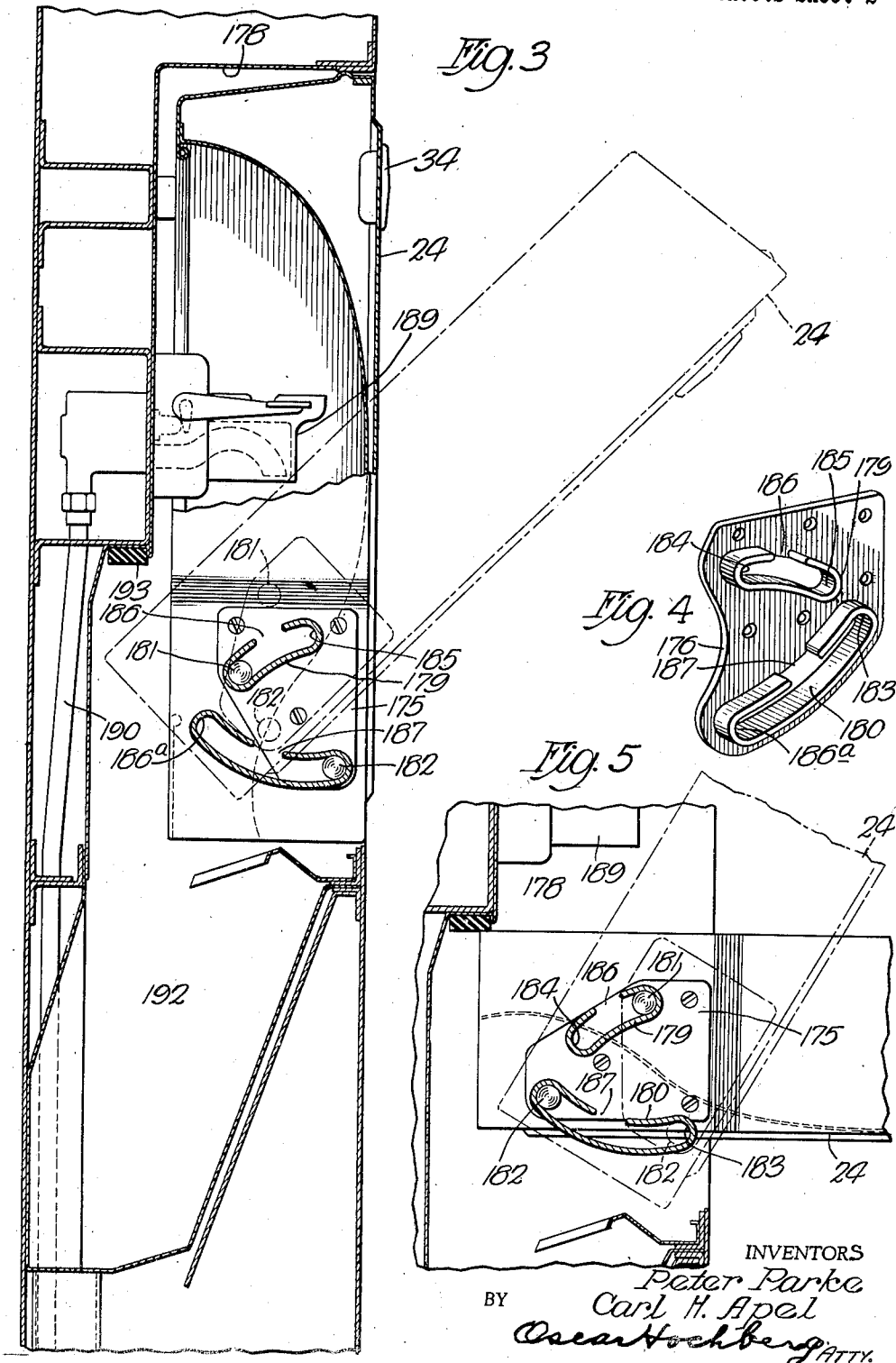
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2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

2,334,951

FOLDING WASHBASIN

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Application February 15, 1941, Serial No. 379,020

2 Claims. (Cl. 4—169)

The primary object of the invention is to provide pivotal mounting means which may be used in the support and mounting of any member where it is desired to have a mounting affording pivotal movement of such member between two positions, such as a folding washstand or the like.

Another object of the invention lies in the provision of pivotal mounting means having two points of pivotal movement in which the pivot points are shiftable in tracks to provide full pivotal movement.

A further object of the invention is to provide pivotal mounting means having two points of pivotal movement shiftable in tracks wherein means are provided for separation of the pivotal member from the track.

Other and more specific objects of the invention will become apparent from the following description read in conjunction with the accompanying drawings, in which—

Fig. 1 is an enlarged front elevational view of a folding washstand in closed position and incorporating pivotal mounting means as used in the present invention;

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1 through the folding washstand showing the relative interlocking positions of the pivotal mounting parts;

Fig. 3 is a central vertical sectional view through the folding washstand in fully closed position and having parts broken away better to reveal the operation of the pivotal mounting arrangement and showing in broken lines how the washstand may be removed from the mounting means in an intermediate open position of the stand;

Fig. 4 is a detail perspective view to larger scale of the supporting track bracket for the folding washstand which is fixedly mounted in the washstand recess in use; and

Fig. 5 is an enlarged fragmentary detail view of the pivotal mounting arrangement for the washstand showing the relation of the parts in the fully open position of the washstand and in that intermediate open position where the pivotal point for the opening movement changes from the lower trunnion to the upper trunnion.

In the drawings, a supporting washstand 24 is housed in a cabinet 25 wherein it is hingedly mounted for pivotal movement between a vertical closed position and a horizontal operative position. The folding washstand is hinged in the cabinet 25 and comprises a basin 191 enclosed by and carried in the housing 24 which conforms to the surface contour of the cabinet 25 into which it is received when folded. The washstand is operated by means of a handhold 34 and empties, automatically, into a drain 192 leading beneath the car as the washstand is closed after

use. Stationary pipes 190 and faucets 189 supply hot and cold water in the usual manner.

The washstand 24 as shown in Fig. 1 is made narrower at its lower portion as at 74 to accommodate pivot brackets 175 on the washstand and track brackets 176 in the respective side walls of the washstand recess 178 and the space between this narrowed portion and the side walls of the recess is covered by fixed flanges 177 flush with the face of the washstand and forming part of the cabinet 25 housing the washstand but which might form part of any surface in which it is desired to mount the washstand. The flanges 177 serve to conceal the pivot mounting brackets 175 and 176, for the washstand, from view.

The washstand 24 is supported at each side in the brackets 175 and 176 and is pivotally movable therein from the fully closed vertical position shown in Fig. 3 to the open horizontal position for use indicated in Fig. 5 and without leaving an opening between the rear edge of the washstand and the back wall of the recess 178. The track brackets 176 are fixedly secured upon the respective side walls of the washstand recess by fastening means set in flush with the surface of the brackets and are so disposed as co-operatively to be engaged by the pivot brackets 175 on the washstand, thereby to support the washstand for the required pivotal movement. The brackets 176 are, each of them, provided with a pair of coplanar converging tracks 179 and 180 each of which is developed in the form of an arc generated about a radius point within the limits of the other track end, as shown, is actually swung on an arc from the terminus of the respectively opposite leg. The tracks 179 and 180 on the respective brackets 176 are disposed over and under, the upper with respect to the lower, and in position to be traversed substantially horizontally by co-operating parts on the brackets 175. The brackets 175 are each provided with spaced trunnions 181 and 182 adapted to engage respectively within the upper and lower tracks 179 and 180 and which act as pivot points for the opening and closing movements of the washstand during their respective phases of the operation.

In the normally closed vertical position of the washstand the trunnion 182 is disposed in the lower track 180 at the outermost extremity or terminus, thereof, 183 and the trunnion 181 is disposed in the upper track 179 at the innermost extremity 184, thereof. When it is desired to open the washstand for use, the user grasps the handle 34 to pull the washbasin out of the recess 178, whereupon the trunnion 182 acts as the initial pivot point in terminus 183 of the lower track while the trunnion 181 traverses the full length of the upper track and when this latter trunnion reaches its final position of

movement in outer terminus 185, it then acts as the pivot point for the final movement of the washstand to horizontal open position, while the trunnion 182 then traverses the full length of lower track 180 to the innermost extremity, thereof, 186. By the use of the double pivot arrangement it will be seen that the washstand may be manipulated readily and opened through the ninety degrees necessary to position it horizontally for use without leaving a gaping opening or space between the rear of the washbasin and the recess 178.

The washstand assembly including brackets 175 may be installed in the recess 178 in the fixed brackets 176 without removing any of the attaching screws for either of the brackets. Both the upper and the lower tracks 179 and 180 in each of the brackets 176 are each provided with an opening 185 and 187, respectively, for the placement and removal of the washstand. In Fig. 3 the washstand 24 is indicated in broken lines as it is inserted into the recess. It is necessary in this operation to insert the narrowed lower end of the washstand into the recess 178 in such manner that the trunnions 181 and 182, on the respectively opposite sides thereof, will pass over the flange 177 at each side of the recess after which the trunnions 182 must be passed in front of the upper tracks 179 and inserted into the openings 187 in the lower tracks while the trunnions 181 are being worked into the openings 186 in the upper tracks after which the washstand may be operated between its extreme positions. The washstand may be removed in this same manner in reverse sequence.

Faucet assembly 189 connected by means of pipes 190 with sources of hot and cold water supply affords means for filling the basin 191 with water for washing, and which is emptied into the drain 192 as the basin is closed, to be discharged through suitable outlets (not shown) onto the right-of-way. Resilient stop 193, as best shown in Fig. 5, limits the opening movement of the washstand and relieves the brackets 175 and 176 of a portion of the load imposed in this position.

From the foregoing it will be seen that a two point pivot arrangement for the mounting of any member in pivotal relation to another has been provided in which pivotal and sliding movements have been combined to reduce the amount of space involved in the operation of the pivotal member and wherein such member may be dismounted from the other without the necessity of disassembling the pivotal mounting members.

What is claimed is:

1. A basin adapted to pivot through substantially ninety degrees from a vertical inoperative position to a horizontal operative position, a vertical support for the basin including a recess open on a side of the support and having a height and width slightly greater than the corresponding dimensions of the basin and a depth greater than the thickness of the basin and adapted to receive the basin in such manner that the sides of the basin are disposed closely adjacent to the sides of the recess and the bottom of the basin is substantially aligned with the front of the recess when the basin is in inoperative position, means at each side of the basin for pivotally mounting the basin in the recess including a pair of lugs spaced in fixed position relative to each other and a pair of elongated arcuate converging track members, each in the form of an arc generated about a point within

the limits of the other track and disposed adjacent to one end thereof, one of said pairs being mounted on the support at the respective sides of said recess in fixed relation thereto, the lugs being adapted to fit into the track members and cooperating therewith to support the basin in such manner that the basin during the first part of its movement from vertical inoperative position toward horizontal operative position rotates about a substantially fixed axis so that the basin clears the back of the recess, and during the remainder of its movement toward horizontal operative position is moved linearly toward the back of the recess so that when in its operative position the basin projects a minimum distance beyond the front of the support, the lugs during said movement of the basin moving linearly in their respective tracks, the other of said pairs being secured to the basin in fixed relation thereto, and means whereby the lugs and tracks may be separated to remove the basin from the support without disturbing the fixed relation of either, the tracks having means associated therewith for fixing the basin with respect to horizontal motion relative to the support.

2. A basin adapted to pivot through substantially ninety degrees from a vertical inoperative position to a horizontal operative position, a vertical support for the basin including a recess open on a side of the support and having a height and width slightly greater than the corresponding dimensions of the basin and a depth greater than the thickness of the basin and adapted to receive the basin in such manner that the sides of the basin are disposed closely adjacent to the sides of the recess and the bottom of the basin is substantially aligned with the front of the recess when the basin is in inoperative position, means at each side of the basin for pivotally mounting the basin in the recess including a pair of lugs and a pair of bearing members, the lugs on each side of the basin being spaced apart at a fixed distance equal to the distance between the corresponding bearing members, one of said pairs being mounted on the support at the respective sides of said recess in fixed relation thereto, one of the bearing members of each pair being disposed adjacent to the rear of the basin, the other bearing member of each pair being disposed at an intermediate position with respect to the basin, the lugs being adapted to fit into the bearing members and cooperating therewith to support the basin, the basin when in vertical inoperative position being supported on the bearing members disposed adjacent to the rear of the basin and adapted to pivot about said bearing members during the initial movement of the basin toward operative position, the basin during the remainder of its movement toward operative position being adapted to pivot about the intermediate bearings so that when in its operative position the basin projects a minimum distance beyond the front of the support, the other of said pairs being secured to the basin in fixed relation thereto, means whereby the lugs and bearings may be separated to remove the basin from the support without disturbing the fixed relation of either, and means for limiting the pivoting movement of the basin to the position corresponding to horizontal operative position.

PETER PARKE.
CARL H. APEL.

CERTIFICATE OF CORRECTION.

Patent No. 2,334,951.

November 23, 1943.

PETER PARKE, ET AL.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 1, second column, line 35, for "end" read --and--; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 11th day of January, A. D. 1944.

(Seal)

Henry Van Arsdale,
Acting Commissioner of Patents.