June 28, 1960 V. T. MANAS 2,942,277

CARRIER AND ADAPTER

Filed Sept. 11, 1957

Fig. 1

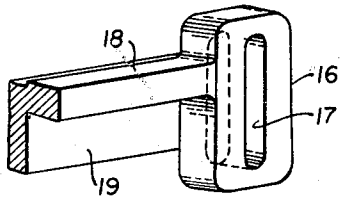


Fig. 2

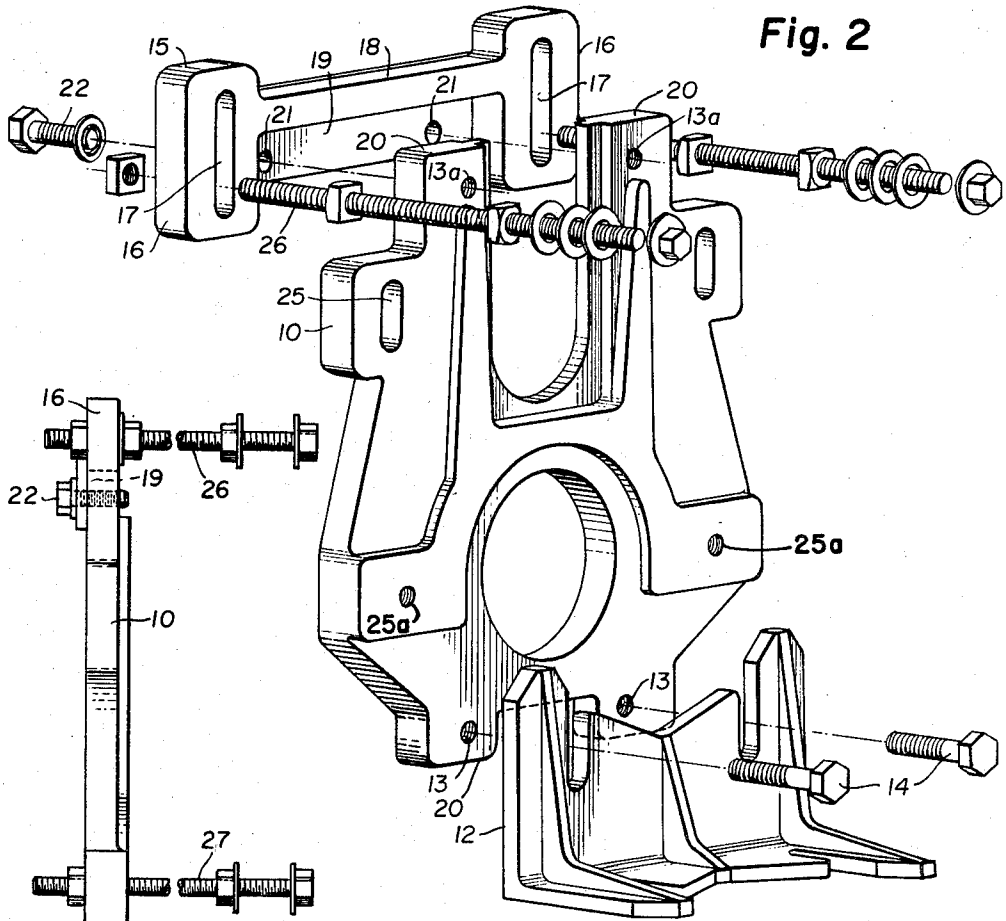


Fig. 3

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CARRIER AND ADAPTER

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4 Claims. (Cl. 4—252)

This invention is directed to the art of so-called wall hung closet fittings in the general art of plumbing installations and has for its general object the provision of an adapter means attachable to a carrier structure for connecting fixtures with relatively high flanges to carriers generally adaptable to the support of wall hung closet bowls of both blow out and syphon jet type.

The specific object of the invention is to provide a combined carrier and adapter, the carrier being of the closet bowl supporting type whereby the same may be adapted to the support of urinals of woman's type either at the time of installation of the carrier or after the carrier has been built into the building structure.

An instance of the use of the invention to great advantage is to be found in conversion jobs where installed closet bowls are replaced with women's urinals without tearing down the carrier and plumbing installations. The urinals in structure extend higher on the wall than the closet bowls necessitating the use of fixture supporting bolts disposed above the carrier structure. The present invention proposes the use of an adapter which when applied to the carrier will extend vertically the fixture supporting function of the carrier.

In my application filed October 30, 1956, Serial No. 619,215 I disclosed a universal carrier adaptable to both syphon jet type and blow out type of closet bowl supports by vertically reversing the carrier and it is to such a carrier I have combined the adapter feature for meeting the conversion requirements herein above referred to in supporting women's urinals.

In the drawings in Fig. 1 I show an exploded perspective view of the carrier and adapter when the carrier has been installed for support of a syphon jet type of closet bowl;

Fig. 2 shows the adapter element in perspective cross section; and

Figure 3 is a side elevation of the assembled carrier with the adapter in place.

The present invention contemplates the use of an adapter for converting a universal closet bowl carrier into a urinal carrier during original plumbing installations or during a change-over from closet bowls to urinals. In the drawings I show in Fig. 1 a vertically reversible carrier member **10** having an adjustable foot structure **12** bolted to the bottom of the carrier by cap screws **14** in threaded openings **13** located near the bottom of the carrier. Near the top of the carrier are bolt holes **13***a* which serve the same purpose as the threaded openings **13** when the carrier member **10** is vertically reversed. An adapter member **15** in the form of a yoke with two-spaced outer bosses **16** having vertically extending slots **17** are connected by an integral bridging portion **18** and a lower web **19**. The rear side of the carrier **10** is flat and the web **19** is flat and disposed at the rear of the adapter whereby the adapter may nest upon the portions **20** of the carrier.

Two bolt rods **26** with associated nuts and washers are

shown to be vertically adjustably mounted in the adapter slots **17**. Lower bolt rods **27**, as shown in Fig. 3, are threaded through threaded apertures (designated **25***a* in Fig. 1) and locked by jam nuts on the respective rod ends projecting behind the carrier plate, for support of a four-bolt mounted type fixture.

The adapter web **19** has two openings **21** which match or align with the threaded openings **13** and **13***a* depending upon the position of the carrier for either syphon jet type or blow out type of installation. Cap screws **22** extend through the adapter openings **21** into engagement with the threaded openings **13** or **13***a* as the case may be with either installation. The web **19** is offset to extend in thickness rearwardly of the boss formations **16** to obtain sectional strength in the bridging function of the web and to form a recess in the adapter structure whereby the adapter may be disposed in capping relation to the carrier top and the front face of the adapter will be disposed substantially flush with the forward face of the carrier plate thus retaining the advantages of a relatively thin carrier plate.

On original installations, be they syphon jet type or blow out type, the same carrier structure is used by vertically reversing the carrier and three bolt and four bolt mountings of the fixtures are afforded as explained in said application. Should the installations include women's urinals the carrier may be used in either vertical position since the adapter is devised in such manner as to crown fit either end of the carrier plate whichever end happens to be disposed at the top of the carrier. The extension element or adapter is substantially the thickness of the carrier plate **10** except rib **19** which projects rearwardly somewhat to obtain strength in the structure. The slotted bosses **16** have the vertically extending slots **17** thereof in vertical alignment with the bolt openings **25** of the carrier since it is found that the manufacturers of women's urinals have adapted a standard horizontal spacing of the bolt openings in the fixtures.

Should the plumbing installation already exist and a change over is desired the carrier and plumbing can remain intact by extending the carrier function with the adapter bolted to the top of the carrier plate.

I claim:

1. A carrier and adapter for the purposes described comprising a carrier in the form of a plate having elongated openings for the reception of bolts adapted to support a toilet bowl fixture, an adapter plate shaped to fit the top of and overhang sides of the carrier plate, said fit being in the form of an open face socket fitting the top end surface of the plate and the upper rear face of the plate, boss formations on the adapter overhanging the sides of the top of the carrier plate, said carrier plate and said adapter bosses having vertically extending bolt receiving slots in vertical alignment when the adapter is in position on the top of the plate and said socket formation of the adapter including a rear depending wall extending between the boss formations of the adapter and bolt means passing through the wall and securing the said depending wall to the carrier plate.

2. A carrier and adapter for the purposes described comprising a carrier in the form of a plate having elongated openings for the reception of bolts adapted to support a toilet bowl fixture, an adapter plate shaped to fit the top of the carrier plate and extend vertically the fixture supporting function, said fit being in the form of an open socket fitting the top end surface of the plate and the upper rear face of the plate, boss formations on the adapter overhanging the sides of the top of the carrier plate, said adapter bosses having vertically extending bolt receiving slots in vertical alignment with elongated openings of the carrier plate when the adapter is in position

on the top of the plate and said socket formation of the adapter including a rear depending wall extending between the boss formations of the adapter and bolt means securing the said depending wall to the carrier plate whereby a fixture may be supported on the carrier plate and the adapter.

3. A carrier and adapter for the purposes described comprising a carrier in the form of a plate having elongated openings for the reception of bolts adapted to support a toilet bowl fixture, said carrier plate being vertically reversable for supporting either a syphon jet or a blow out type toilet bowl fixture, an adapter plate shaped to fit the top of the carrier plate and being of substantially the same thickness as the plate said fit being in the form of a socket fitting the top end surface of the plate and the upper rear face of the plate, boss formations on the adapter overhanging the sides of the top of the carrier plate, said carrier plate and said adapter bosses having vertically extending bolt receiving slots in vertical alignment when the adapter is in position on the top of the plate and bolt means securing the said adapter to the carrier plate.

4. A carrier and adapter for the purposes described comprising a carrier in the form of a plate adapted to support a toilet bowl fixture, said carrier plate being vertically reversible for supporting either a syphon jet or blow out type of toilet bowl fixture an adapter plate shaped to fit the top of the carrier plate to vertically extend the fixture supporting function of the carrier plate, boss formations on the adapter plate overhanging the side edges of the top of the carrier plate, said carrier plate and said adapter plate bosses having vertically extending bolt receiving slots in vertical alignment when the adapter plate is in position on the top of the carrier plate and bolt means accessible from the rear of the adapter plate for securing the said adapter plate to the carrier plate.

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