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COMBINED RETAINING AND SPACING DEVICE FOR PIPES

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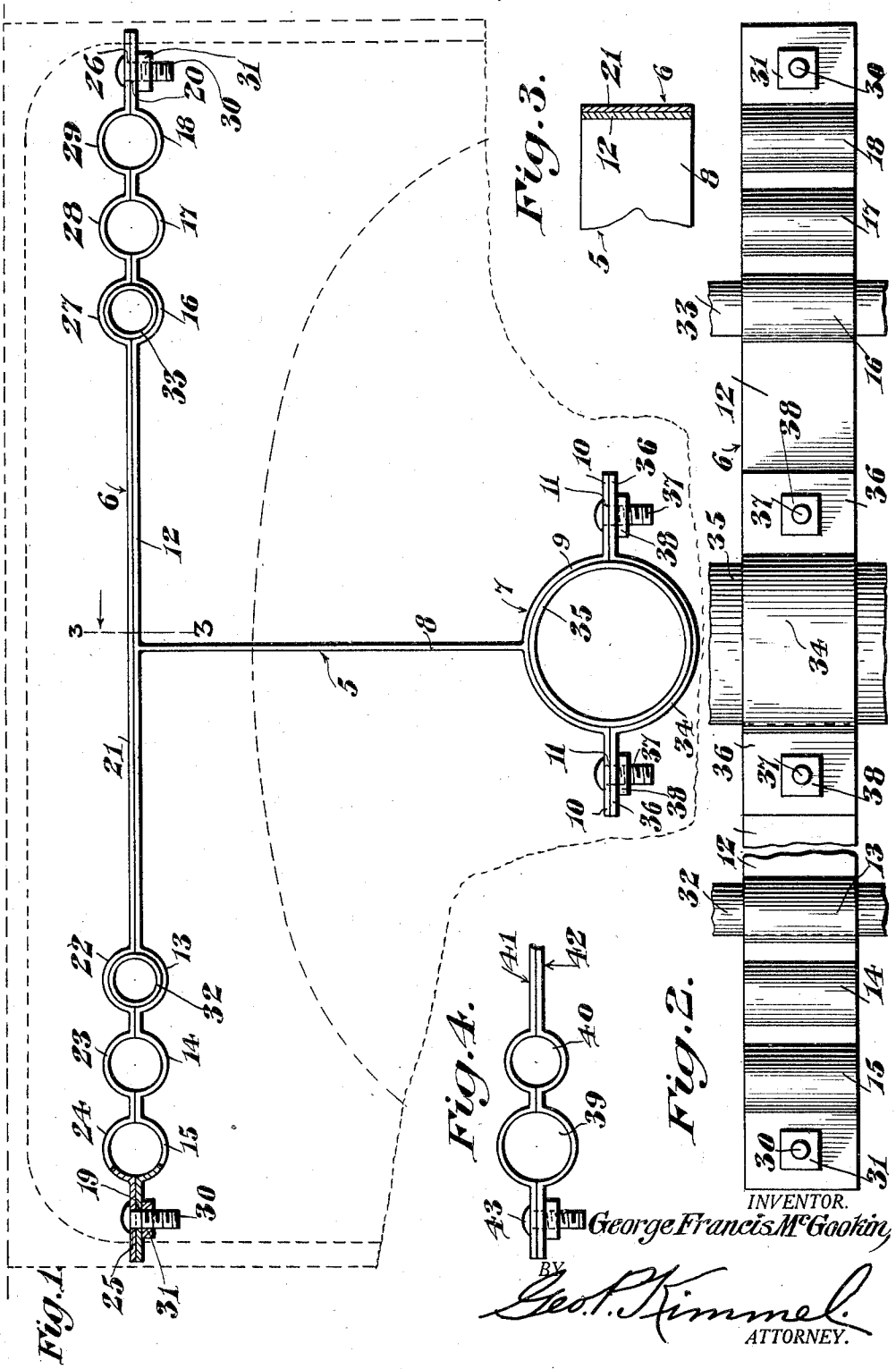


Fig. 1.

Fig. 3.

Fig. 4.

Fig. 2.

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COMBINED RETAINING AND SPACING DEVICE FOR PIPES

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This invention relates to a combined retaining and spacing device for pipes, and is designed primarily for use when roughing in water pipes for lavatories, but it is to be understood that a device, in accordance with this invention may be employed for any purposes for which it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, a device of the class referred to to enable the expeditious making of water pipe connections in an accurate manner when partitions are not in position and further without necessitating blocking up or wiring the pipes to maintain the same in set position.

A further object of the invention is to provide, in a manner as hereinafter set forth, a device of the class referred to for maintaining water pipes in set position for making accurate connection without moving the fittings or cutting walls or damaging the finish thereof, as now is the case when roughing in with respect to piping for lavatories.

A further object of the invention is to provide, in a manner as hereinafter set forth, a device of the class referred to functioning as a guide for measurements with respect to the piping for lavatories and further overcoming the necessity of shifting the piping when connecting the same up resulting in the saving of time and labor.

A further object of the invention is to provide, in a manner as hereinafter set forth, a device of the class referred to capable of being employed for piping in connection with wall or stand lavatories.

A further object of the invention is to provide, in a manner as hereinafter set forth, a device of the class referred to constructed and arranged in a manner for the utilization thereof for different spans of piping for lavatories.

Further objects of the invention are to provide, in a manner as hereinafter set forth a combined spreader and supporter device for the purpose referred to which is simple in its construction and arrangement, strong, durable, compact, thoroughly efficient in its use, conveniently operated, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a top plan view, partly in section, of a combined retaining and spacing device for pipes, in accordance with this invention, and showing the adaptation thereof in connection with the piping of a lavatory.

Figure 2 is a fragmentary view in front elevation.

Figure 3 is a section on line 3—3 Figure 1.

Figure 4 is a fragmentary view in top plan of a modified form.

A device in accordance with this invention and for the purpose set forth comprises a spacer member referred to generally at 5, a pair of clamping members indicated generally at 6, 7, a plurality of holdfast devices for connecting one of the clamping members to the spacer member and a plurality of holdfast devices for connecting the spreader member to the other clamping member.

The spacer member 5 is substantially of T-shape form and comprises a stem 8 of substantial width and thickness terminating at its forward end in a semi-circular seat 9 provided with a pair of oppositely extending lateral flanges 10 and each of the latter has an opening 11. The stem 8 at its other end terminates in a pipe spacer bar 12 corresponding in width and thickness to the stem 8, but of greater length than the latter. The rear end of stem 8 merges into the front side of the spacer bar 12 centrally thereof. At a point between the vertical median of the spacer bar 12 and one end thereof the latter is bent to provide a series of semi-circular spaced seats 13, 14 and 15. The seat 15 is positioned in proximity to an end of the bar 12 and the latter at a point between its vertical median and

its other end is bent to provide a series of spaced semi-circular seats 16, 17 and 18 and the latter is positioned in proximity to an end of the bar 12. The seats 13 to 18 both inclusive project forwardly with respect to the forward face of the bar 12. The bar 12 in proximity to each end thereof is provided with an opening and these latter are indicated at 19, 20.

The clamping member 6 is positioned against the rear face of the bar 12 and said member 6 corresponds in length to the bar 12, as well as being of the same thickness and width. The clamping member 6 comprises a bar 21 bent between its vertical median and one end to form a series of spaced semi-circular clamping portions 22, 23 and 24 which project rearwardly with respect to the rear face of the bar 21. The clamping portion 24 is positioned adjacent one end of the bar 21 and the latter is provided in proximity to each end with an opening and said openings are indicated at 25, 26. The bar 21 between its vertical median and its other end is formed with a series of spaced rearwardly extending semi-circular clamping portions 27, 28 and 29. The seats 13, 14 and 15 associate with the clamping portions 22, 23 and 24 and the seats 16, 17 and 18 associate with the clamping portions 27, 28 and 29. The clamping portions 13, 14 and 15 register respectively with the clamping portions 22, 23, and 24 respectively and the seats 16, 17 and 18 register respectively with the clamping portions 27, 28 and 29 when the device is in active position to maintain the pipes in set position. The opening 25 registers with the opening 19 and the opening 26 registers with the opening 20 and extending through each pair of registering openings is a bolt 30, carrying a securing nut 31. The nuts 31 act to secure the bars 12 and 21 in abutting relation and the member 6 in clamping position with respect to the pipe held in set position by the bars 12 and 21. As shown in Figure 1 the seat 13 associates with the clamping portion 22 to maintain a hot water pipe 32 in set position and the seat 16 associates with the clamping portion 27 to maintain a cold water pipe 33 in set position. The seats 16, 17 and 18 associate with the clamping portions 27, 28 and 29 to maintain a cold water pipe in set position and the seats 13, 14 and 15 associate with the clamping portions 22, 23 and 24 to maintain a hot water pipe in set position. The series of seats and clamping portions permits of utilizing the device when the hot water pipe and cold water pipe are spaced at different distances with respect thereto, that is to say the bars 12 and 21 are constructed to provide for maintaining a hot water pipe with respect to a cold water pipe arranged at different distances, or in other words the bars 12 and 21 can be employed for an eight inch spread between the hot water pipe and cold water pipe, a ten inch spread between the hot water pipe and the cold water pipe and a twelve inch spread between the hot water pipe and the cold water pipe. It is to be understood however that the device is not limited to the specific spreads as stated, as distances for each spread can be different.

The clamping member 7 comprises a semi-circular body portion 34 of the same thickness and width as the stem 8 and said body portion is formed with a pair of oppositely extending lateral flanges 35 each formed with an opening 36. The body portion 34 is a clamping portion and it associates with the seat 9 for the purpose of clamping thereto a waste pipe nipple 35. The openings 11 are adapted to register with the openings 36, and extending through each pair of registering openings is a bolt 37, carrying a securing nut 38 which provides means for securing the clamping member 7 to the spreader member 5.

The seats formed on the bar 12 and the clamping portions formed on the bar 21 are set up to provide for maintaining water pipes of uniform diameter, but it is to be understood that they can be set up to maintain in set position water pipes of different diameters and in this connection attention is directed to Figure 4 which discloses means, as indicated at 39 for clamping a water pipe in set position and also means as indicated at 40 for clamping a water pipe in set position, but the means indicated at 40 is for clamping a water pipe of less diameter than the diameter of the pipe which is to be clamped by the means indicated at 39. In Figure 4 the clamping member is indicated generally at 41 and the spreader member is indicated generally at 42. The holdfast means for securing the clamping member 41 of the spreader member 42 is indicated at 43 and which is similar in construction to that employed in connection with the other clamping members and spreader member referred to.

Each seat and its associated clamping portion provides means for maintaining a water pipe in set position and the maintaining of the pipes in set position, for the purpose of expeditiously making the connections between the fittings, is had without the blocking up or wiring of the pipes and further when the partitions or walls are not set in or are out of position and furthermore the pipes are maintained in set position without the necessity of cutting or damaging the walls or floors, therefore it is thought the many advantages of a combined spreader and supporter device for the purpose referred to and in accordance with this invention, can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that

changes in the details of construction can be had which will fall within the scope of the invention as claimed.

What I claim is:

1. A retaining and spacing device for pipes comprising a spacer member for a plurality of pipes, said member consisting of a stem and a bar disposed at right angles with respect to each other, said stem having its rear end integral with the front of the bar intermediate the ends of the latter, said bar having a forwardly directed, curved seat positioned between the center and each end thereof, said stem having its forward end formed with a rearwardly directed curved seat, a clamping member coextensive with said bar, positioned against the rear face of the latter and having means coacting with the seat on the bar for maintaining a plurality of water pipes in spaced relation, means for connecting said member to said bar, a clamping element positioned against the forward end of the stem and having means coacting with the seat on the stem for clamping a water pipe thereto and for maintaining the latter in spaced relation with respect to the other of said pipes, and means for connecting said element to said stem.

2. A retaining and spacing device for pipes comprising a spacing member for a plurality of pipes and consisting of a stem and a bar each standing on a longitudinal edge thereof, said stem having its inner end integral with the outer face of the bar intermediate the ends of the latter, said bar having portions thereof outwardly directed to provide curved seats arranged between the center and each end of said bar, said stem having its outer end formed with a rearwardly directed, curved seat projecting laterally in opposite directions with respect thereto, a clamping member coextensive with said bar, positioned against the inner face of the latter and having means coacting with the seats on the bar for maintaining a plurality of water pipes in spaced relation, means for connecting said member to said bar, said means positioned at the ends of the member and bar, a clamping element positioned against the outer end of the stem and having means coacting with the seat on the stem for clamping a water pipe thereto and for maintaining the latter in spaced relation with respect to said plurality of pipes, and means for connecting said element to the stem.

In testimony whereof, I affix my signature hereto.

GEORGE FRANCIS McGOOKIN.