March 31, 1931. F. S. HYATT 1,798,884

FAUCET CONNECTER

Filed Aug. 20, 1927

Fig. 1,

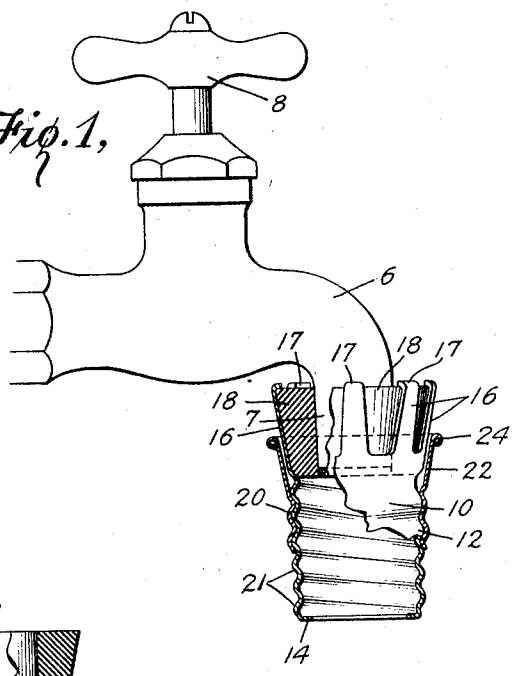


Fig. 2,

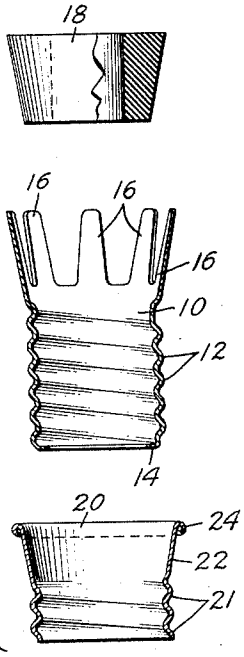
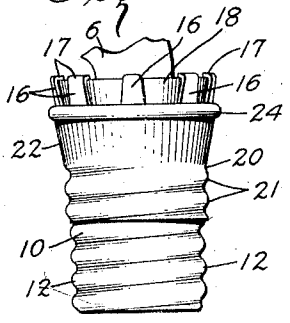


Fig. 3.



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Patented Mar. 31, 1931

1,798,884

UNITED STATES PATENT OFFICE

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FAUCET CONNECTER

Application filed August 20, 1927. Serial No. 214,242.

This invention relates to improvements in connecting devices the invention being primarily intended for use with the usual spigot or faucet outlet having straight or non-threaded sides for connecting the same into a screw-threaded outlet.

It is one of the primary objects of the invention to provide a device of this character which may be securely connected to a faucet and be maintained thereon even though considerable pressure is applied to the connection.

It is a further object of the invention to provide a relatively simple device of this construction which may be economically constructed but which will be entirely satisfactory in use.

These and other objects will appear more fully from the description when considered in connection with the drawings in which:

Fig. 1 is a vertical view partly in section showing the application of the invention to a typical faucet, the device being shown just prior to its being tightened in position.

Fig. 2 is a vertical sectional view through the apparatus showing the elements thereof separated.

Fig. 3 is an elevational view showing the device in operative condition.

Referring to the details of the drawings, my invention is shown as applied to a typical faucet 6 having a smooth-sided outlet 7 and being controlled by the usual valve means 8. The connecting device attachable to the faucet 6 includes an inner shell 10 formed with a cylindrical screw-threaded lower portion 12 terminating at its outer or lower end in a reenforcing flange 14 if desired. The threads of the portion 12 may be of standard pitch for receiving any desired screw-threaded coupling on the outer or lower end thereof.

The upper portion of the inner shell 10 is formed as a series of separate displaceable fingers or securing members 16 preferably formed integrally therewith and flaring outwardly slightly as indicated in Fig. 1, the tips 17 of the fingers 16 being bent inwardly adjacent their free ends. The upper portion of the inner shell 10 is thus constructed to receive a flexible sealing member 18 shown as a distortable rubber washer. The sealing member 18 shown as of circular configuration is flared slightly to correspond to the inclination of the fingers 16, the member being provided with a central transverse opening for receiving the faucet outlet 7.

The flexible fingers 16 according to the present construction are designed to be held firmly against the sealing member 18 for maintaining this member securely on the faucet outlet 7. There is also employed an outer cylindrical shell 20 formed with a screw-threaded portion 21 of a size to fit snugly over the screw-threaded portion 12 of the inner shell and having adjacent its upper end the cone-shaped circular engagement portion 22 preferably terminating at its upper edge in a reenforcing head 24 formed by curling over the edges of the metal. The engagement portion 22 of the outer shell is proportioned to snugly interfit over the fingers 16 for forcing them inwardly against the sealing element 18 to cause this element to be more securely held to the faucet outlet 7.

The use of the above described mechanism will be readily understood from the above description. It may be pointed out that the assembled mechanism as shown in Fig. 1 may be attached to a faucet by passing the sealing member 18 over the end of the faucet as shown in Fig. 3, and thereafter screwing the outer shell 20 upwardly along the inner shell 10 to the position shown in Fig. 3 so as to cause the engagement portion 22 of the outer shell to move the fingers 16 inwardly whereby the sealing member is compressed tightly against the faucet 7.

The threaded portion 12 of the inner shell being formed with a standard thread or other predetermined thread permits the use of the device with a screw-threaded coupling for any desired purpose.

It will be readily understood that the invention is capable of other uses and that the invention is not to be limited in its application other than as set forth in the appended claims.

I claim as my invention:

1. In a faucet connecting device, a sheet

metal body part formed with displaceable portions, a flexible sealing member engaged within said portions and means for compressing said displaceable portions inwardly with respect to said sealing member, said means comprising an outer sheet metal shell engageable with said displaceable portions, and having the metal of an edge thereof curled over to form a reinforcing bead adjacent the engagement portion thereof.

2. In a connecting device, an inner sheet metal shell having a screw threaded portion and integral flexible securing members projecting beyond said screw threaded portion, an outer sheet metal shell having a cooperating screw threaded portion for being screwed over the screw-threaded portion of said inner shell and including an engagement portion engageable with said securing members in certain adjusted positions of said outer shell, and sealing means mounted within said securing members.

Signed at Brooklyn, in the county of Kings, and State of New York, this 18 day of August, A. D. 1927.

FRANK S. HYATT.