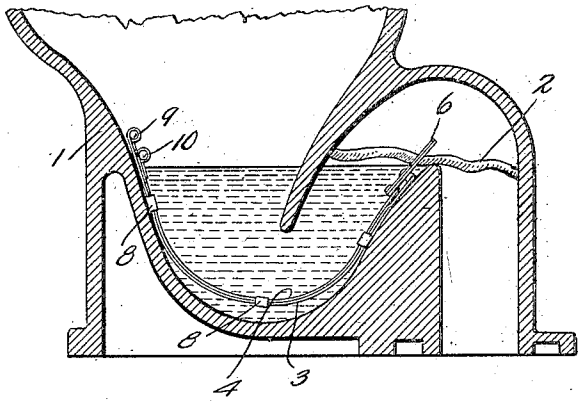
C. W. SHEATSLEY.

PLUMBER'S FERRET.

APPLICATION FILED APR. 13, 1920.

1,377,933. Patented May 10, 1921.

Fig. 1.



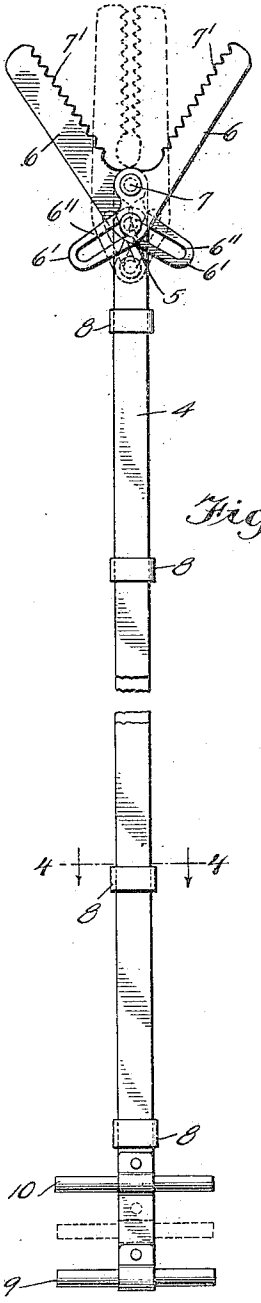


Fig. 2.

Fig. 3.

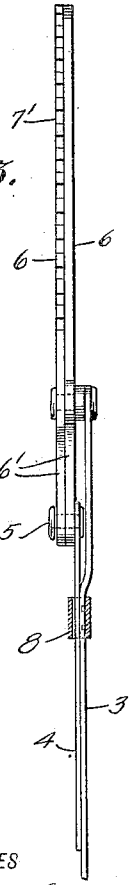
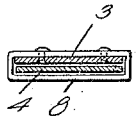


Fig. 4.



WITNESSES

Geo. Maylor

S. W. Foster

INVENTOR

C. W. SHEATSLEY,

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES WILLIAM SHEATSLEY, OF PENSACOLA, FLORIDA.

PLUMBER'S FERRET.

1,377,933. Specification of Letters Patent. Patented May 10, 1921.

Application filed April 13, 1920. Serial No. 373,592.

To all whom it may concern:

Be it known that I, CHARLES W. SHEATSLEY, a citizen of the United States, and a resident of Pensacola, in the county of Escambia and State of Florida, have invented a new and Improved Plumber's Ferret, of which the following is a full, clear, and exact description.

This invention relates to improvements in plumber's ferrets, an object of the invention being to provide an improved construction of flexible pliers, which can be bent around a bend, or variously positioned to grasp and remove obstructions.

A further object of the invention being to provide a device of the character stated which is of extremely simple construction, strong and durable in use.

With these and other objects in view the invention consists in certain novel features of construction, and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a view in section through a water closet bowl, illustrating the use of my improved device.

Fig. 2 is an enlarged view in elevation of the device.

Fig. 3 is a fragmentary edge view.

Fig. 4 is a view in section on the line 4—4 of Fig. 2.

1 represents a water closet bowl of ordinary construction and 2 is an obstruction located in the outlet passage of the bowl out of ordinary reach.

My improved device comprises a flexible, relatively thin handle strip 3 of any desired length supporting at one end a pair of jaws 6. These jaws 6 are crossed and pivotally connected to the strip or handle 3 by means of a rivet 7. The outer free ends of the jaws are toothed or serrated, as shown at 7′ so that they form a firm grip to attach themselves to an article to be removed. The inner ends of the jaws are made with lateral projections 6′ having slots 6″ therein, and the walls of these slots form cam faces against which a headed pin 5 on a flexible tongue 4 is projected. This flexible tongue 4 is preferably of substantially the same width as the handle or strip 3 and is guided in its longitudinal movement on the handle by means of guide sleeves 8, the latter fixed to the strip 3 and permitting free longitudinal movement of the tongue 4.

Handles 9 and 10 are provided on the ends of the flexible strip 3 and tongue 4 respectively, so that the handle 9 can be held against movement and the handle 10 moved relative thereto, or both handles moved together in opposite directions to cause the opening and closing of the jaws 6.

The operation is as follows: The ferret is projected around the bend of the bowl with the jaws 6 apart and when in position the tongue is moved longitudinally by bringing the handles 9 and 10 more nearly together causing the headed pin 5 to move longitudinally through the slots 6″ whereby the jaws are brought together as shown by the dotted lines so as to grasp the obstructing article 2 which can then be easily removed.

Various slight changes might be made in the general form and arrangement of parts described without departing from the invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A device of the character stated comprising a flexible handle, a pair of movable jaws secured to one end of the handle, rectangular guide brackets secured on the handle, a flexible tongue movable longitudinally in the guide members and operating to open or close said jaws.

2. A device of the character stated comprising a flexible handle, rectangular guide sleeves on the handle, a flexible tongue movable longitudinally on the handle in the guide sleeves, movable jaws on one end of the handle, a pin on the tongue engaging said jaws and adapted to positively open or positively close said jaws.

3. A device of the character stated comprising a flexible handle, a pair of crossed movable jaws pivoted on one end of said handle, lateral angularly disposed projections on said jaws having longitudinal slots therein, a flexible tongue slidable on said handle, and a pin on said tongue projecting through both of said slots and controlling the position of the jaws.

CHARLES WILLIAM SHEATSLEY.