

(No Model.)

F. H. CULLEN.
STOP COCK.

No. 534,739.

Patented Feb. 26, 1895.

Fig. 1.

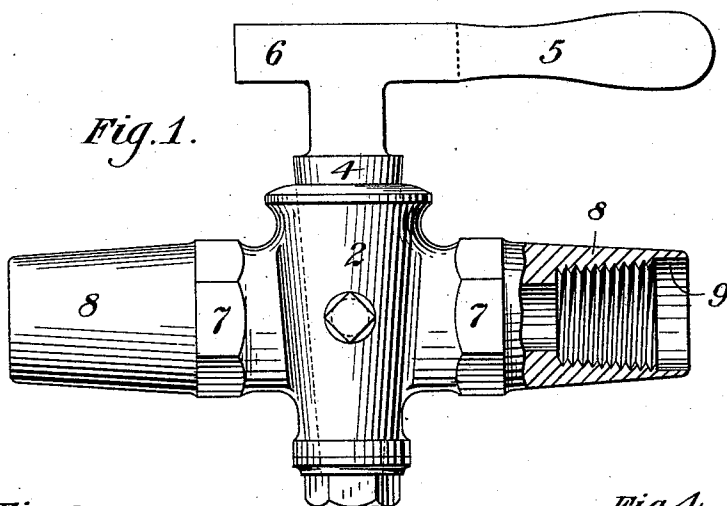


Fig. 2.

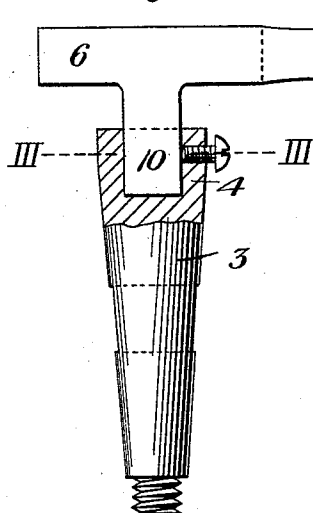
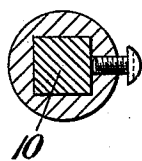


Fig. 3.



WITNESSES

C. Byrnes.
H. M. Corwin

Fig. 4.

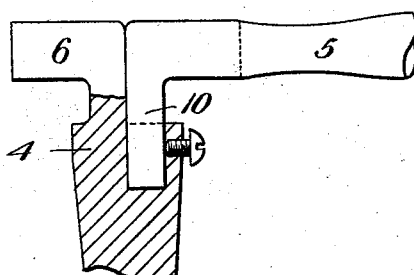


Fig. 5.

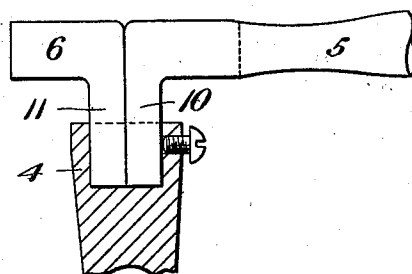


Fig. 7.

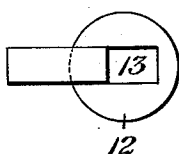
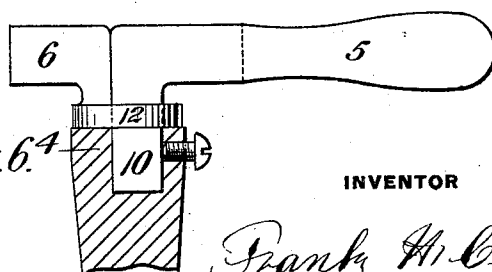


Fig. 6.



INVENTOR

Frank H. Cullen

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FRANK H. CULLEN, OF PITTSBURG, PENNSYLVANIA.

STOP-COCK.

SPECIFICATION forming part of Letters Patent No. 534,739, dated February 26, 1895.

Application filed December 14, 1893. Serial No. 493,635. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. CULLEN, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented a new
5 and useful Improvement in Stop-Cocks, of
which the following is a full, clear, and exact
description, reference being had to the accom-
panying drawings, forming part of this speci-
fication, in which—
10 Figure 1 represents a side elevation, partly
in section of my improved cock. Fig. 2 is a
detail view of my preferred form of plug and
handle. Fig. 3 is a cross-section on the line
III—III of Fig. 2. Figs. 4, 5, and 6 are simi-
15 lar views of modified forms; and Fig. 7 is a
top plan view of the ring of Fig. 6.
My invention relates to the class of plumb-
ers' cocks, and is designed to greatly reduce
the number of different styles of cocks neces-
20 sary for different locations, and to produce
a cock which may be used either with a lever
handle, T-handle, or socket-head for an op-
erating rod, and may be readily secured at
either end to either iron or lead pipes.
25 In the drawings, in which like symbols of
reference indicate like parts, 2 represents the
body of the cock, having the usual plug valve
3 therein. This valve is provided with a
socket-head 4, preferably having a square
30 socket therein, which receives the squared
shank 10 of the handle 5. This handle has a
projecting arm 6 beyond the shank, so that if
a T-handle is desired, the lever-handle may
be severed at a point distant from the shank,
35 equal to the length of the projecting arm 6, a
suitable groove for the purpose being made,
if desired, to facilitate the severing of the
lever portion. If a rod is used, the shank of
the handle is removed and the squared lower
40 end of the rod inserted in the socket of the
valve. In Fig. 4 I show a modified form,
wherein the arm 6 is made integral with the
plug, and the handle has a shank 10 fitting in
a socket of the plug. In the form of Fig. 5,
45 both the lever-handle and the arm are pro-
vided with separate shanks 10, 11, entering
the socket. In Fig. 6 I show another form
wherein the arm is provided with a plate 12,
having a slot 13 through which the shank 10
50 of the handle extends into the socket. These

forms are all included within the scope of my
invention, which lies broadly in the arm 6
and in the socketed plug.

Each pipe-connecting end of my improved
cock consists of a wrench-portion 7, from 55
which extends the exteriorly smooth and
cylindrical connection 8, which is interiorly
screw-threaded to receive the similarly screw-
threaded end of an iron pipe, the cock being
screwed upon the pipe by a wrench applied to 60
the portion 7.

If a lead pipe is to be connected to either
end, the end of the pipe is scraped to a taper
and inserted within the tube-portion 8, and
an ordinary wiped joint made at the point of 65
juncture, this joint extending over the cylin-
drical portion 8. To obviate liability of crack-
ing the tube portion, I slightly enlarge the
outer end of the aperture at 9, so that the iron
pipe does not engage the screw-threads until 70
it approaches the wrench portion where the
metal is stronger.

By using a screw plug in the waste hole 10,
the cock may be used with or without a waste.

The advantages of my invention are appar- 75
ent, since the plumber is not required to carry
a large number of different varieties of cocks,
the one being easily adapted to any location
and with any pipes.

Many changes may be made in the form 80
and arrangement of the parts without depart-
ing from my invention, since

What I claim as new, and desire to secure
by Letters Patent, is—

1. A cock, having a wrench portion, and an 85
exteriorly smooth tube portion extending
therefrom and having inner screw threads;
substantially as described.

2. A cock, having a wrench portion, and an
inner screw-threaded tube portion extend- 90
ing therefrom, and having a smooth exterior
surface the bore of the tube being enlarged
at its outer end; substantially as described.

In testimony whereof I have hereunto set
my hand.

FRANK H. CULLEN.

Witnesses:

W. B. CORWIN,
H. M. CORWIN.