J. F. Ferry.
FAUCET.
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UNITED STATES PATENT OFFICE.

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FAUCET.


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29. all whom it may concern:

Be it known that I, JAMES FRANCIS FERRY, a
resident of Leadville, in the county of Lake
and State of Colorado, have invented certain
new and useful Improvements in Faucets; and
I do hereby declare the following to be a full,
clear, and exact description of the invention,
such as will enable others skilled in the art to
which it appertains to make and use the same.

My invention relates to improvements in
faucets, and more particularly to an improved
removable valve-seat thereof; the object of
the invention being to provide an improved
flexible or elastic valve-seat which can be
readily placed in position and which will,
owing to its shape and construction, be main-
tained in operative position without the aid
of other devices; and the invention consists in
certain novel features of construction and com-
binations and arrangements of parts, as will
be more fully hereinafter described, and point-
ed out in the claim.

In the accompanying drawings, Figure 1 is
a view in longitudinal section, illustrating my
improvements. Fig. 2 is a sectional view
showing the seat in position, and Fig. 3 is a
perspective view of the seat.

1 represents a faucet-case having the
spout 2 at one end and inlet-pipe 3 at its other
end, with the valve-chamber 4 between the
spout and inlet and projecting upward and in-
ternally and externally screw-threaded, as
shown.

In the valve-casing and separating inlet-
pipe 3 from spout 2, is an integral partition 5,
having an opening 6 in its horizontal portion
for the passage therethrough of the water or
other fluid. On the top of the partition an
annular recess 7 is provided around opening
6 to accommodate the flanged upper end 8 of my improved valve-seat 9. The seat
9 is composed of rubber or other flexible or
elastic material and comprises a cylindrical
portion to fit the opening 6, an annular flange
8 at its upper end to rest in recess 7, and at
the lower end of the cylindrical portion of the
seat an annular flange 10 is provided to en-
gee under partition 5 and securely hold the
seat against accidental upward movement, and
this lower annular flange 10 is beveled on its
lower side to guide the seat into the opening
6 when forced down by the valve 11, and
owing to the bevel of the lower flange the cy-
lindrical portion of the seat will be contract-
ted until the lower flange is through the opening.
when the flange and cylindrical portion will
expand, fit the opening snugly and securely
lock the seat therein, as it will be seen that
the partition is between the upper and lower
flanges of the seat, and the latter is securely
held against movement in either direction.

The valve 11 is carried by a screw-plug 12,
mounted to turn in the internal screw-threads
of the valve-casing 1. A screw-threaded cap
13 is screwed onto the external threads of the
casing and closes the same, and an operating
rod 15 projects up through the cap and has a
handhold 16 thereon to facilitate its being
turned.

My improved seat is also especially designed
for repairing almost any of the well-known
daucets in use, as the partition will be grasped
between the flanges of the seat, and the latter
will hold itself in position without the em-
ployment of additional devices. It can be
easily and quickly applied by any one of aver-
age intelligence, as the valve can be used to
force the seat into position. The device is of
extremely simple and inexpensive construc-
tion and requires no additional means for se-
curing it in place in a cock or faucet.

A great many slight changes might be made
in the general form and arrangement of the
parts described without departing from my
invention, and hence I would have it under-
stood that I do not restrict myself to the pre-
cise details set forth, but consider myself at
liberty to make such slight changes and alter-
ations as fairly fall within the spirit and scope
of my invention.

Having fully described my invention, what
I claim as new, and desire to secure by Letters
Patent, is—

A cock or faucet comprising a casing having
a partition separating the inlet and outlet
spout, said partition having an opening and
an annular recess surrounding said opening,
a cylindrical extension on said casing, a valve-
stem adjustable in said extension, a flexible
valve-seat passing through the opening in the
partition, said seat having a flange at its lower
end to bear against the under face of the par-
tition and a flange at its upper end seated in
the annular recess in the partition, and a valve
at the end of the valve-stem, said valve having a diameter approximating that of the flanged upper end of the flexible valve-seat, whereby pressure exerted by said valve on the flexible seat will be received by the shoulder formed by the annular recess in the partition. In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JAMES FRANCIS FERRY.

Witnesses:
ALEXANDER E. FOWLE,
PETER H. CULLEN.