

No. 727,743.

PATENTED MAY 12, 1903.

H. E. BRUNNER & E. J. PATTERSON.

OIL COCK OR VALVE.

APPLICATION FILED AUG. 25, 1902.

NO MODEL.

FIG. 1

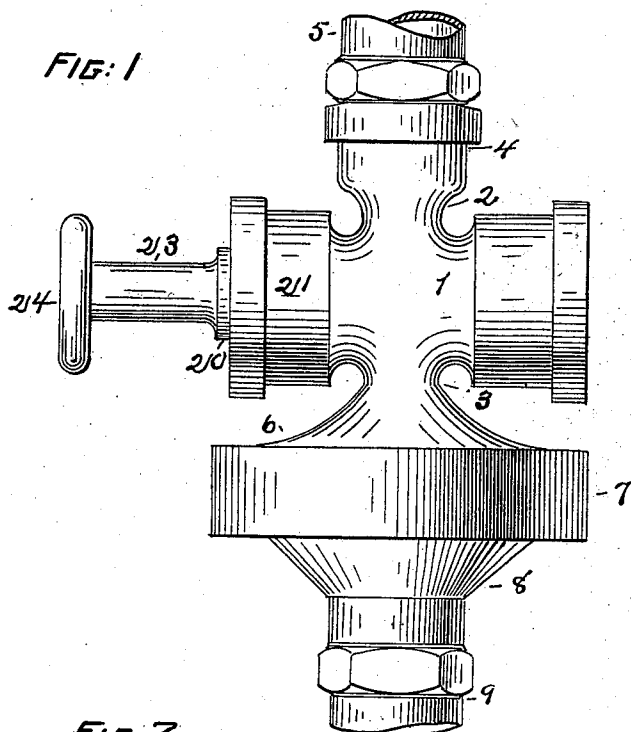
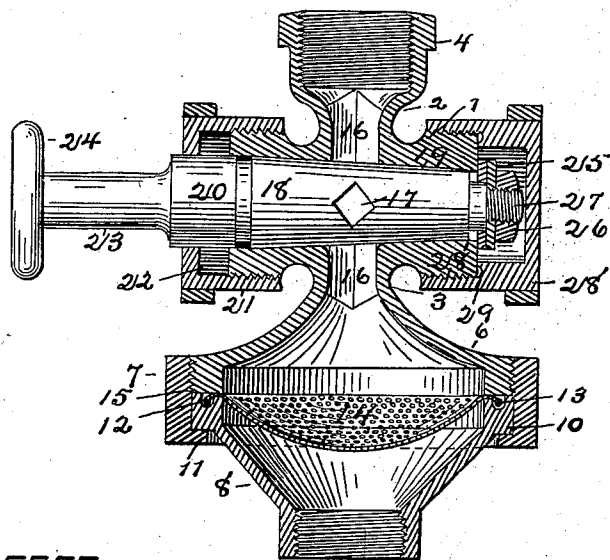


FIG. 2



WITNESSES:

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Att'y.

UNITED STATES PATENT OFFICE.

HENRY E. BRUNNER AND EDIE J. PATTERSON, OF HAYWARDS, CALIFORNIA.

OIL COCK OR VALVE.

SPECIFICATION forming part of Letters Patent No. 727,743, dated May 12, 1903.

Application filed August 25, 1902. Serial No. 120,895. (No model.)

To all whom it may concern:

Be it known that we, HENRY E. BRUNNER and EDIE J. PATTERSON, citizens of the United States, residing at Haywards, Alameda county, State of California, have invented certain new and useful Improvements in Oil Cocks or Valves; and we do hereby declare the following to be a full, clear, and exact description of the same.

10 The present invention relates to a certain new and useful oil cock or valve to be introduced within the oil-supply pipe for conveying oil to a hydrocarbon-burner, the object of the invention being to provide a simple
15 and effective valve for controlling or regulating the flow of oil or hydrocarbon to the burner and for taking up lost motion or wear of the plug and at the same time providing
20 oil being conveyed to the burner.

To comprehend the invention, reference should be had to the accompanying sheet of drawings, wherein—

25 Figure 1 is a side view in elevation of the valve or faucet secured to the oil feed or supply pipe, and Fig. 2 is a longitudinal section of the valve or cock.

The numeral 1 is used to indicate the shell or casing for the valve, which is provided
30 with the upwardly-extending bib 2 and the downwardly-extending bib 3. The bib 2 terminates in an enlarged internally-screw-threaded boss 4, which screws onto section 5 of the oil feed or supply pipe. The downwardly-extending bib 3 terminates in an outwardly-flared or bell-shaped mouth extension 6, to which is connected by coupling-ring 7 the union 8. The lower end of this union is internally screw-threaded and screws onto
40 section 9 of the oil feed or supply pipe. The union 8 is formed with a circular shoulder 10, which is engaged by the flange 11 of the coupling-ring 7. Within the upper edge of this union 8 is formed a circular groove 12, into which fits and is soldered rim 13 of the strainer 14. (See Fig. 2 of the drawings.) To prevent leakage between the upper edge of union 8 and lower edge of the outwardly-flared or bell-shaped extension 6, a ground
50 joint 15 is formed or provided. The bibs 2 and 3 have formed therein a square oil passage-way 16, with which registers the square-

shaped port 17 of plug or valve 18. This valve or plug is made tapering and fits within the tapering opening or seat 19 of the shell or casing 1. The shank or head 20 is somewhat larger than the plug or valve 18 and extends through a stuffing-gland 21, secured or screwed onto outer end of the casing or shell 1, there being interposed between the gland 22 in order to prevent leakage at this point. From the shank or head 20 projects the stem 23, which carries a key or handle 24, by means of which the valve or plug is rotated within
65 its seat to open and close the passage-way 16. To the inner end of the valve or plug 18 is secured the washer 25, which is held in place by means of the nut 26, screwed onto the screw-threaded end 27 of the said plug or
70 valve. This end of the plug or valve is inclosed within or covered by the cap 28, which screws onto end 28' of the shell or casing. The shoulder 29 of the cap or cover 28 is arranged to form a ground joint with the face
75 of end 28', so as to prevent leakage or escape of oil.

In order to take up lost motion occasioned by the wear of the plug or valve 18, it is only necessary to tighten the nut 26 in order to
80 draw the plug or valve 18 farther into the tapering seat or bore 19 of the shell or casing 1. Access may be had to this nut 26 by simply unscrewing the cap or cover 28. To remove the plug or valve, it is only required to
85 take off the cap or cover 28 by unscrewing the same, remove the nut 26 and washer 25, and thence unscrew the gland 22, when the plug or valve may be removed bodily from within its seat.

Having thus described our invention, what we claim as new, and desire to protect by Letters Patent, is—

An oil-regulating valve or cock for controlling the feed of oil to oil-burners, the same comprising a shell or casing provided with an upwardly and downwardly extending bib, an oil passage-way through the bibs, a tapering valve-seat formed within the shell or casing, a tapering plug or valve fitted within
95 said seat, a stuffing-gland secured to the outer end of the shell or casing and within which works the head or shank of the valve or plug, a tightening-nut working on the inner end of

the plug or valve, a cover or cap screwed
onto the inner end of the casing or shell so as
to inclose the tightening-nut, a ground joint
between said cap or cover and the end of the
5 shell or casing, a bell or flared shaped extension
to the lower bib of the shell or casing,
a union connected thereto by a coupling-ring,
and a strainer secured within the said union.

In witness whereof we have hereunto set
our hands.

HENRY E. BRUNNER.
EDIE J. PATTERSON.

Witnesses:

E. PATTERSON,
M. B. TEMPLETON.