

139,959

PATENT



SPECIFICATION

Application Date, May 26, 1919. No. 13,227/19.

Complete Accepted, Mar. 18, 1920.

COMPLETE SPECIFICATION.

An Improved Reversing Cock.

I, GEORGE CONSTANTINESCO, of "Carmen Sylva", Beechwood Avenue, Oatlands Park, Weybridge, in the County of Surrey, Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The invention relates to reversing plugs suitable for cross-connecting two pipe lines, of the type in which the passages for reversing the flow past the plug are formed by grooves cut or cast around the face of a circular, parallel or tapered plug or in the walls of the socket in which the plug is fitted.

10 The invention consists in an improved reversing cock of this type in which considerable distances between the openings of the passages are obtained by making the grooves of long spiral form so that the cock can be used for reversing the flow of liquids under high pressure.

Referring to the accompanying drawings—

15 Figure 1 is a sectional elevation of a reversing cock constructed according to the invention;

Figure 2 is an elevation of the same, while

Figure 3 is a plan.

Figure 4 is a view of the plug portion, while

20 Figure 5 is a developed view of the same.

In the plug illustrated a suitable cylindrical aperture is provided in the body of the cock *a* in which the plug *b* is capable of rotation. The pipe lines in which the flow of liquid is to be reversed are shown connected at *c c'* *d d'*. The plug is rotated by a suitable handle *e*.

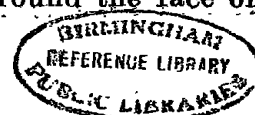
25 For the direct flow of liquid, passages *f g* are provided passing diametrically through the plug, while for the reverse flow grooves *h k* are provided in the surface of the plug.

30 In the position illustrated in Figures 1 and 3 the passage through the plug is direct through the passages *f g* from *c* to *d* and from *c'* to *d'*. On turning the plug through a right angle the passages are reversed, the flow taking place from *c* to *d'* and from *c'* to *d* through the passages *h k* respectively. On placing the plug half way between these positions the passages past the plug are completely closed.

35 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. An improved reversing cock of the type in which the passages for reversing the flow past the plug are formed by grooves cut or cast around the face of

[Price 1/-]



a circular, parallel or tapered plug or in the walls of the socket in which the plug is fitted; and in which considerable distances are obtained between the openings of the passages by making the grooves of long spiral form so that the cock can be used for reversing the flow of liquids under high pressure, substantially as described.

2. The improved reversing cock hereinbefore described and illustrated in the accompanying drawing.

Dated this 25th day of May, 1919.

MARKS & CLERK.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1920.

[This Drawing is a reproduction of the Original on a reduced scale.]

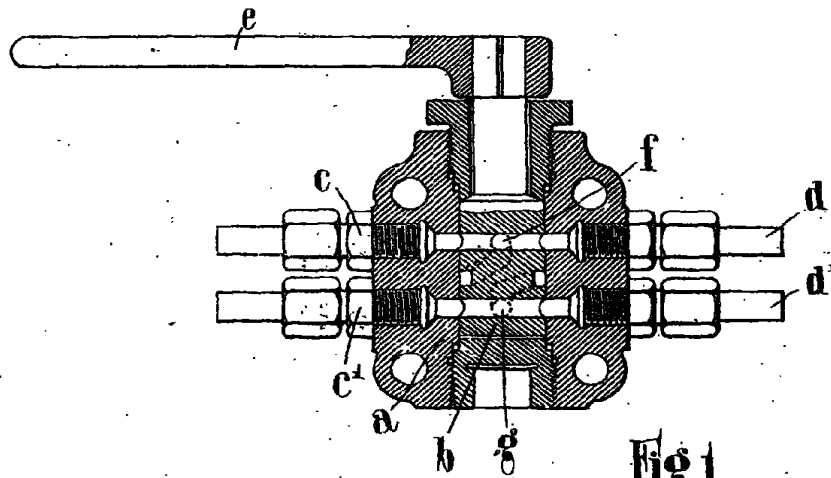


Fig. 1.

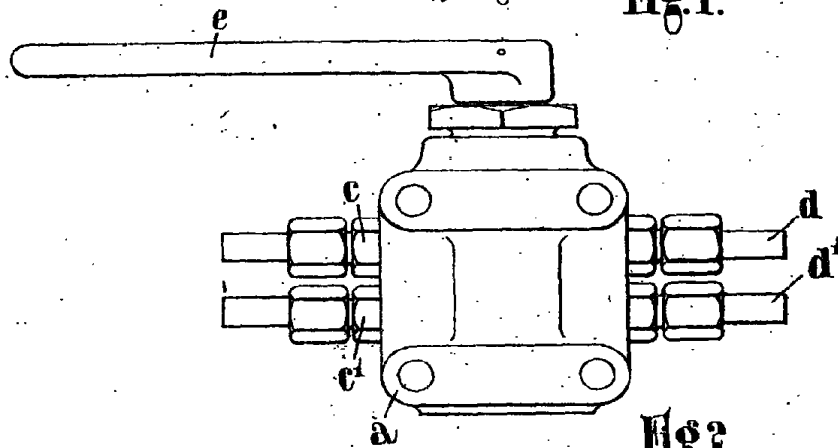


Fig. 2.

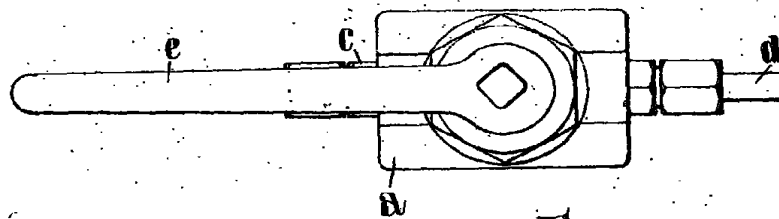


Fig. 3.

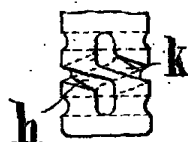


Fig. 4.

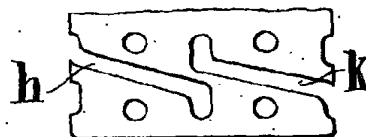


Fig. 5.

