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(1870 - 1919)

Luxembourg-Hollerich

Patents (details)

1 - Improvements in or relating to gate or the like valves more especially intended for high pressure gas or liquid plants

GB patent	152762
Date of application	18 July 1919
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This invention relates to gate, or the like, valves more especially intended for high pressure gas or liquid plants or any apparatus where fluid tightness is essential, of the type adapted to be moved longitudinally by means of a rod and held against their seats or in the open or partly open position by the action of suitable cams or wedges.

Valves of the type referred to usually comprise a disc, or discs, movable in a direction which is vertical relatively to the current of gas or liquid by means of an operating rod to open or close the valve and various devices have been suggested for holding the valves in their closed, open or partly open position. For example, in one arrangement the disc is adapted to slide in guides and to be held in any desired position by wedges on said disc which engage and jam in said guides when the disc is partially rotated.

In another known arrangement the discs are provided with studs which engage apertures in a hollow casing which is raised or lowered by means of a screwed rod, said studs bearing against a cam located in said casing and having lugs working in grooves on the walls of the valve box, said grooves being parallel with the actuating screw for the greater part of their length but inclined at their lower ends so that when the discs have been lowered and the valve is almost closed said cam will then be rotated through a limited angle and so press the discs outwardly onto their seats.

According to my invention the valve plate, or plates, is or are forced against its seat, or their seats, by means of a cam or cams, fixed on the lower end of a rod and so arranged that, at any vertical position of the plate, or plates the rotation of the rod will cause said plate or plates, to be moved outwardly.

Corresponding patent:

FR

