

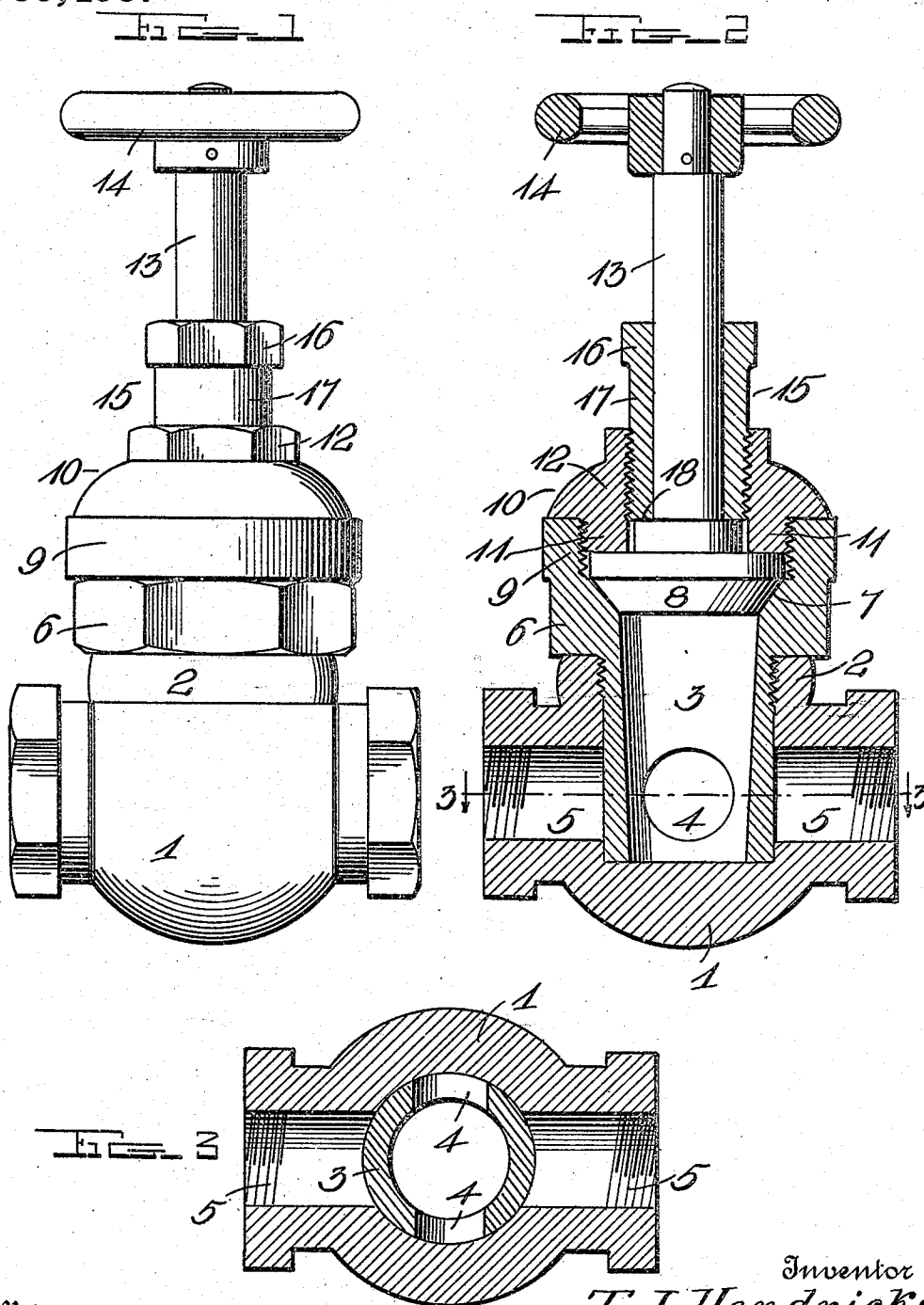
T. J. HENDRICKS.

VALVE.

APPLICATION FILED MAY 3, 1909.

939,499.

Patented Nov. 9, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS J. HENDRICKS, OF ROME, GEORGIA.

VALVE.

939,499.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS J. HENDRICKS, a citizen of the United States, residing at Rome, in the county of Floyd and State of Georgia, have invented certain new and useful Improvements in Valves; and I do 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.

This invention relates to new and useful improvements in valves for the control of steam, compressed air, water and all other liquids and gases.

The object of the invention is to provide a valve construction by means of which all packing, both on the stem and valve seat may be dispensed with thus overcoming one of the greatest annoyances and expenses in the use of valves.

A further object of the invention is to provide a valve construction wherein the plug and valve may be readily adjusted and the valve and coöperative parts removed without removing the plug.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation, partly in section of a valve embodying my improvements; Fig. 2 is a central vertical section thereof, and Fig. 3, is a horizontal section taken on line 3-3, of Fig. 2.

In the embodiment illustrated, the valve comprises the casing, 1, provided with the upper interiorly threaded portion, 2. A plug, 3, fits in the vertical bore of the casing and is provided with ports, 4, which are adapted for registration with the passages 5, formed by the longitudinal bore of the casing. As shown, the inner face of the plug is flared inwardly and downwardly and the upper or outer end of the plug screws into the threaded rim, 2, of the casing and is provided with a polygonal-shaped head, 6, by means of which it is screwed into or out of position or turned into cut-off position. The top surface of the head, 6, of the plug is provided with a recess, 7, which provides a seat for the closure head 8, which closes in the upper end of the plug. The head, 6, is

also provided with an upwardly extending annular threaded rim, 9, on which screws a cap, 10, provided with a depending cylindrical exteriorly threaded flange, 11, and an upper interiorly threaded dome-shaped portion or body, 12. The stem, 13, of the closure head, 8, passes through the cap, 10, and is provided with a handle, 14. An adjusting plug, 15, provided with an outer squared portion, 16, and a tubular body, 17, screws into the cap, 12, with its bottom seating on an annular shoulder, 18, formed at the junction of the closure head, 8, and stem, 13. By means of this plug the valve may be readily adjusted to its seat in the head, 6, of the plug. By turning the head, 6, of the plug, 3, one-quarter of a revolution, the ports, 4, are brought into a position at right angles with the passages, 5, of the casing and the supply of fluid or gas through the casing is consequently cut off. It is also evident that by removing the cap, 10 and plug, 15, the closure head, 8, may be removed without removing the plug, 3, and without shutting off the pressure. It is also to be observed that all packing between the closure head, the closure head stem and the turning plugs is dispensed with which not only decreases the cost of the valve but renders it highly more desirable for well known reasons.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Having thus described my invention, what I claim is:—

1. A valve of the class described comprising a casing, a plug screwing into the casing, a closure head closing the upper end of the plug and having a stem extending above the plug, a cap screwing on the upper end of the plug and a second adjustable plug screwing through the cap for holding the closure head in operative position.

2. A valve of the class described, comprising a casing, a plug screwing into the casing, a head formed at the outer end of the plug and provided in its top surface with a recess forming a seat and an exteriorly threaded rim above said recess, a cap screwing on said rim, a closure head seating in said recess and having a stem extending through said cap, and an adjusting plug screwing through the cap for holding the closure head in its seat.

3. A valve of the class described, comprising a casing, a plug screwing into the casing, a head formed at the outer end of the plug, said head having a recess in its top surface
5 forming a seat and an exteriorly threaded rim above its recessed portion, a cap screwing on said rim, a closure head provided with a stem and an annular shoulder at the lower end of its stem, and an adjusting plug
10 screwing through the cap against the shoul-

der of the valve for holding the latter to its seat.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

THOMAS J. ^{his} ~~X~~ _{mark} HENDRICKS.

Witnesses:

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