

E. H. HEILIG.

CHECK VALVE.

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968,559.

Patented Aug. 30, 1910.

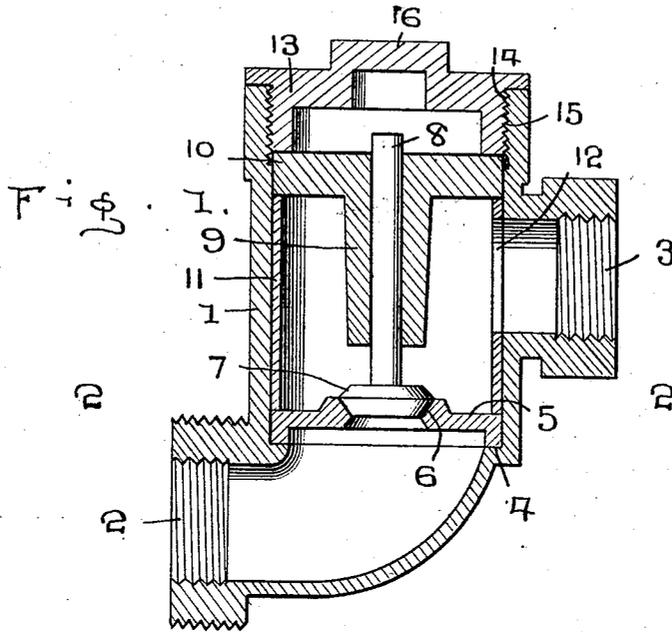
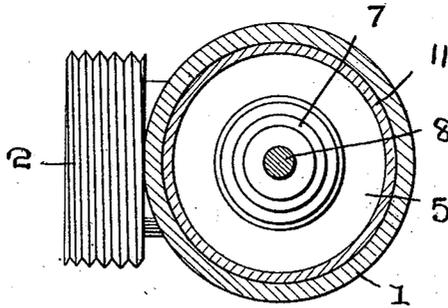


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ENOCH H. HEILIG, OF SHELBY, IOWA.

CHECK-VALVE.

968,559.

Specification of Letters Patent. Patented Aug. 30, 1910.

Application filed April 29, 1909. Serial No. 492,920.

To all whom it may concern:

Be it known that I, ENOCH H. HEILIG, a citizen of the United States, residing at Shelby, in the county of Shelby and State of Iowa, have invented certain new and useful Improvements in Check-Valves; 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 new and useful improvements in check valves and my object is to provide a valve of this kind of which the wearing parts may be removed when so desired and a further object is to provide means whereby the parts may be quickly removed without disconnecting the valves from their respective pipes.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claims.

In the accompanying drawings forming part of this application, Figure 1 is a central sectional view through the valve, and, Fig. 2 is a transverse sectional view thereof as seen on line 2-2, Fig. 1.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates the body of the valve, which may be constructed in any suitable form, to the lower portion of which is attached an inlet 2 and at one side thereof is provided an outlet 3, said outlet being preferably positioned adjacent the upper portion of the body. At the juncture of the inlet 2 with the body 1, is formed a circumferential shoulder 4, upon which is adapted to rest a partition 5, said partition having at its central portion a seat 6, with which is adapted to cooperate a valve 7, the edge of the valve and the face of the seat 6 being preferably tapered, so that a close fit will result and prevent leakage between the valve and seat when the valve is closed.

The valve 7 is provided with an upwardly extending stem 8, which is adapted to guide the valve and is entered through a socket 9, in which it is adapted to slide, the socket having a head 10 at its upper end, which snugly fits the interior of the body and the socket is held in position in the upper portion of the body and the partition 5 on the shoulder 4, by introducing a casing 11 in the body 1, the height of said casing being such

as to properly position the head within the upper part of the body, said casing having an opening 12 therein registering with the outlet 3.

The partition, casing and socket are securely held in fixed relation with the body by introducing a binding cap 13 into the upper end of the body 1, the edge of said binding cap having threads 14 thereon adapted to engage similar threads 15 on the interior of the upper end of the body, the central portion of the cap having an extension 16 thereon, which is adapted to receive a wrench when the cap is to be turned into or out of the body.

It will thus be seen that the wearing parts of the valve may be renewed when desired and without disconnecting the valve from the pipes entering the inlet and outlet and as the seat and valve are practically the only parts that become worn, said parts may be renewed at a minimum expense, thereby greatly reducing the cost of operating the valves as the body and other parts thereof may be used indefinitely.

What I claim is:

1. A device of the character described, consisting of a body having an inlet and an outlet, of a valve seat arranged within said body, said body having an annular shoulder in its lower part forming a support for said valve seat, an inner casing resting on said valve seat and snugly engaging the inner walls of said body member, a valve resting upon said valve seat, a socket receiving the stem of said valve, said socket having an annular head resting upon said inner casing, and a cap having screw threaded connection with said body and engaging the head of said socket.

2. A device of the character described, comprising a body having a shoulder upon its inner lower end, a valve seat resting upon said shoulder, an inner casing arranged in said body and engaging said valve seat the sides of said casing snugly engaging the inner walls of said body member, a valve engaging said valve seat and having an upwardly extending stem, a socket receiving said stem and having a head engaging the upper end of said casing and a cap engaging said body and said head, said socket having a tubular formation depending from its head to a point a short distance from said valve.

3. In a device of the character described,

the combination with a body member having  
an inlet and outlet and a circumferential  
shoulder adjacent the bottom portion there-  
of; of a partition resting on said shoulder  
5 and having a seat therein, a socket adapted  
to rest in said seat and having an upstand-  
ing stem thereon, a removable casing with  
an opening in one side thereof adapted to  
register with said outlet, said casing rest-  
10 ing on said partition and snugly engaging  
the inner walls of said body member, a socket  
having a head thereon resting on the upper  
edges of said casing, said socket being tubu-  
lar in shape and said stem extending there-  
15 through, said head forming with said socket

an approximately T shaped member with an  
opening extending through the axial center  
thereof, and a threaded cap adapted to en-  
gage the upper portion of said body member  
and rest firmly on the upper face of the 20  
head of said socket, whereby the parts within  
said valve may be securely held and readily  
removed.

In testimony whereof I have signed my  
name to this specification in the presence of 25  
two subscribing witnesses.

ENOCH H. HEILIG.

Witnesses:

M. E. CLAPP,  
ARTHUR PRYOR.