

No. 777,654.

PATENTED DEC. 13, 1904.

P. HOON & E. A. RITT.

VALVE.

APPLICATION FILED JAN. 27, 1904.

NO MODEL.

Fig. 1.

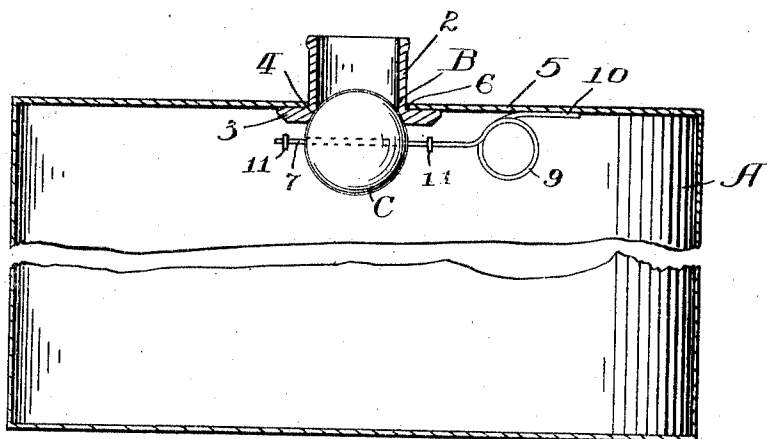
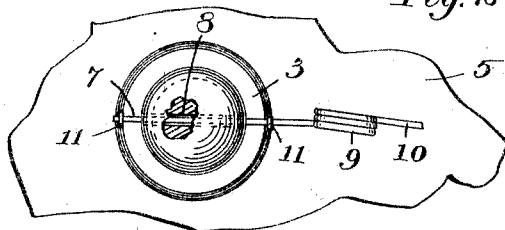


Fig. 2.



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UNITED STATES PATENT OFFICE.

PAUL HOON AND EDWARD A. RITT, OF ST. PAUL, MINNESOTA.

VALVE.

SPECIFICATION forming part of Letters Patent No. 777,654, dated December 13, 1904.

Application filed January 27, 1904. Serial No. 190,849. (No model.)

To all whom it may concern:

Be it known that we, PAUL HOON and EDWARD A. RITT, citizens of the United States of America, and residents of St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Valves, of which the following is a specification.

Our invention relates to improvements in valves, and has for its object an automatic valve that is particularly adapted for use in connection with a receptacle into which liquid is poured through a spout.

Further objects are simplicity of construction and effectiveness in use.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional view of a receptacle having our improved valve, and Fig. 2 is a detail view looking up at the valve.

In the drawings let A represent a receptacle, which is of any desired construction, and B our improved valve mechanism, which is shown in connection with said receptacle. This valve mechanism is automatic in action and particularly adapted for use in connection with oil-cans or other receptacles into which a spout on the receptacle is inserted through the opening in said valve. The valve mechanism has a collar 2, formed with a circular flange 3 and valve-seat 4. The collar 2 projects above the top 5 of the receptacle and passes through the opening 6. The flange 3 is fastened to the inner surface of the top of the receptacle by soldering or other suitable means. A ball C, forming the valve, is movably mounted upon the spring-arm 7, which passes through the opening 8 in the ball and is limited in movement longitudinally upon said arm by means of the stops 11. The arm 7 is connected with the coil-spring 9, which has one of its ends 10 soldered or otherwise fastened to the inner surface of the top 5 of the receptacle. The spring-arm 7 swings freely and presses the ball against the valve-seat when in normal position and closes the opening through the collar.

For use in connection with oil-cans the spout of the can is pressed through the opening in the collar and the ball then pressed down and to one side either longitudinally on the arm

7 or by the swinging movement of the arm. When the spout is withdrawn, the ball resumes its normal position and closes the opening in the collar.

This construction of valve is particularly adapted for the uses above described and prevents the receptacle being left open and when used in connection with gasoline or other explosive oils in the receptacle reduces the danger and hazard of accidental ignition of the oil.

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

1. A device of the class set forth, consisting, in combination with a receptacle having an opening therein, of a valve-seat, a universal ball-valve in connection with said seat, a spring on which said ball-valve is movably supported, and stops carried by said spring to limit the movement of said valve thereon.

2. A device of the class set forth, consisting, in combination with a receptacle, of a valve-seat in said receptacle, a valve adapted to connect with said seat, a spring fastened to said receptacle and having a swinging arm upon which said valve is movably mounted, and means for limiting the movement of said valve on said arm.

3. A device of the class set forth, consisting, in combination with a suitable support, of a valve-seat, a spring fastened to said support, a valve movably carried by said spring, and means carried by said spring for limiting the lateral movement of said valve.

4. A device of the class set forth, consisting, in combination with a receptacle, of a valve-seat 4, a coil-spring 9, an arm 7, carried by said spring and adapted to swing down or to either side, a ball-valve freely mounted upon said arm, and stops by which the ball is limited in movement longitudinally on said arm.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

PAUL HOON.
EDWARD A. RITT.

Witnesses:

E. M. BOESEL,
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