

J. S. McDONALD & T. L. WAY.
 GAS CHECK.
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997,147.

Patented July 4, 1911.

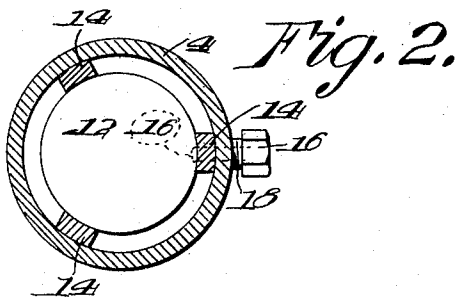
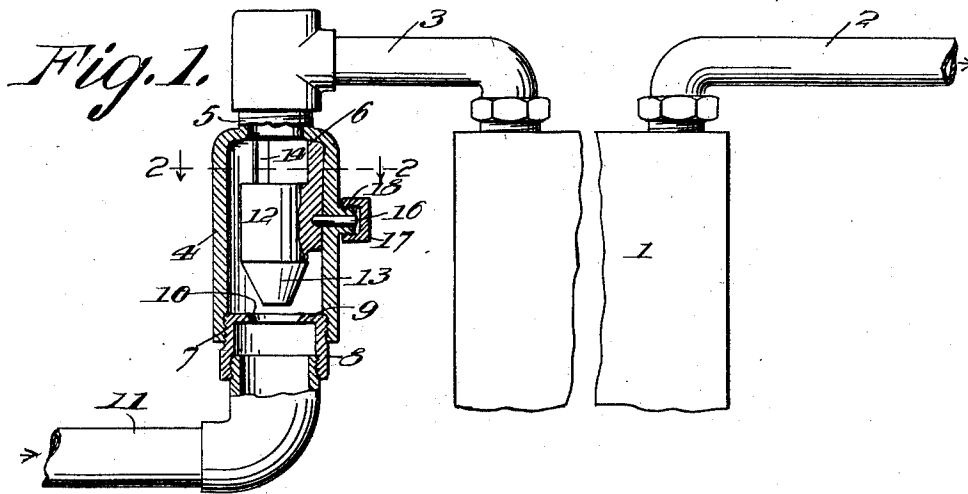


Fig. 3.

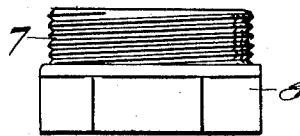
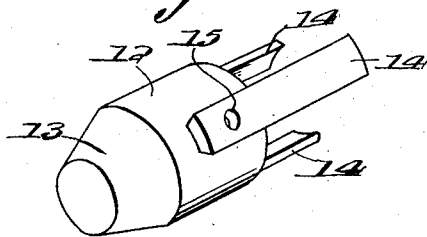


Fig. 4.



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UNITED STATES PATENT OFFICE.

JEREMIAH S. McDONALD AND THOMAS L. WAY, OF PROVIDENCE, RHODE ISLAND.

GAS-CHECK.

997,147.

Specification of Letters Patent.

Patented July 4, 1911.

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To all whom it may concern:

Be it known that we, JEREMIAH S. McDONALD and THOMAS L. WAY, citizens of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Gas-Checks, of which the following is a specification.

This invention relates to certain new and useful improvements in gas checks and the object of the invention is to provide a check of this type which in case of a fire in the house or other place, will automatically enter into action to shut off the flow of gas, and thereby eliminate the danger of explosions.

The object of the invention is to generally simplify and improve devices of this character, reducing the number of parts to a minimum, and to provide a device which will be of certain and positive action and of high efficiency in use.

Further and other objects will later appear.

In the drawings: Figure 1 is a view partly in side elevation and partly in section, showing the invention applied as in use. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is an elevation of the valve seat member, and Fig. 4 is a view in perspective of the valve.

The device as illustrated in the drawings is shown connected to an ordinary gas meter 1, the latter having the usual distributing pipe 2 and inlet pipe 3. The present improvement consists of a valve body 4 which is formed with a constricted threaded neck 5 providing an annular shoulder 6, as shown in Fig. 1 of the drawings. The lower end of the body 4 is interiorly threaded for engagement with the threaded end 7 of the removable valve seat member 8, the latter being formed with an inwardly extending flange 9, which is formed with a tapered or beveled valve seat 10, the latter being located at the bottom of body 4, or at the lower end thereof. A gas inlet pipe 11 is suitably connected to the lower end of the valve seat member 8, so that the course of the gas will be from the pipe 11 through

body 4, pipe 3, meter 1 and distributing pipe 2 to the source or sources of use. In order to automatically control the flow of gas through the body 4 in case of fire, we provide on the interior of the latter a gravity valve 12 which latter is formed, of truncated cone-shape 13, at its lower end in order to seat on the valve seat 10, the opposite end of the valve 12 being formed with a series of longitudinal guiding fingers 14 which latter conformably engage, as depicted in Fig. 2, with the inner face of the body 4 and impart an accurate non-wabbling sliding movement to the valve when the latter is released from the position shown in Fig. 1, so that it may gravitate onto its seat. The side of one of the fingers 14 is formed with a hole 15 for the purpose of receiving and holding a small pin 16 made of fusible solder, the pin 16 being inclosed by a small brass cap 17 which is threaded over a perforated exteriorly threaded projection 18, formed on the body 4.

In operation it will be understood, that the pin 16, on becoming heated, will melt, and the valve 12, being thereby deprived of its support, will respond to the action of gravity, and drop downwardly, causing the cone end 13 thereof to seat on the valve seat 10, thereby obviously shutting off the flow of gas. It will be seen that by virtue of the free ends of the guiding fingers 14 engaging with the shoulders 6 of the body 4 that the aperture 15 which receives the fusible pin 16 will be properly positioned with respect to the perforation of the threaded projection 18, thereby permitting the pin 16 to be inserted in the hole 15.

Having thus described our invention, we claim as new and desire to secure by Letters Patent;—

In a gas check, a valve body formed with a shoulder at one end and having its opposite end open and interiorly threaded, a valve seat threaded in said open end of the body, a gravity valve in the body having an end thereof for engagement with said valve seat, said valve sliding in the body and having longitudinal guiding fingers projecting

therefrom which fingers conformably engage the inner surface of the body, said valve body and valve being formed with alining holes, a fusible pin inserted in said
5 holes, to support the valve, and a cap secured over the outer end of the pin.

In testimony whereof we have signed our

names to this specification in the presence of two subscribing witnesses.

JEREMIAH S. McDONALD.
THOMAS L. WAY.

Witnesses:

ADA E. HAGERTY,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
