

G. R. OLSON.
SAFETY LOCK FOR GAS BURNERS.
APPLICATION FILED MAY 2, 1910.

988,378.

Patented Apr. 4, 1911.

Fig. 1

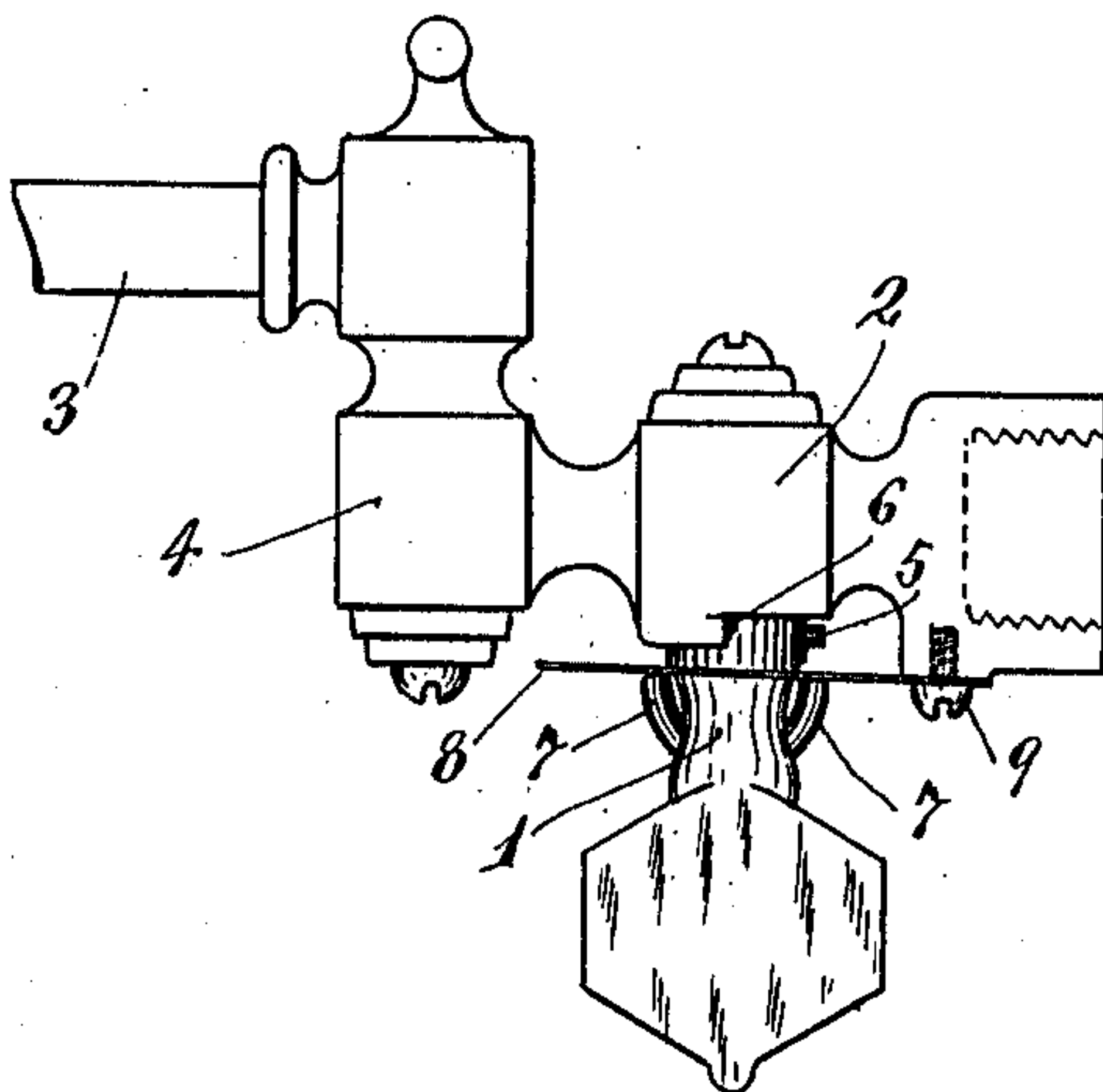


Fig. 2

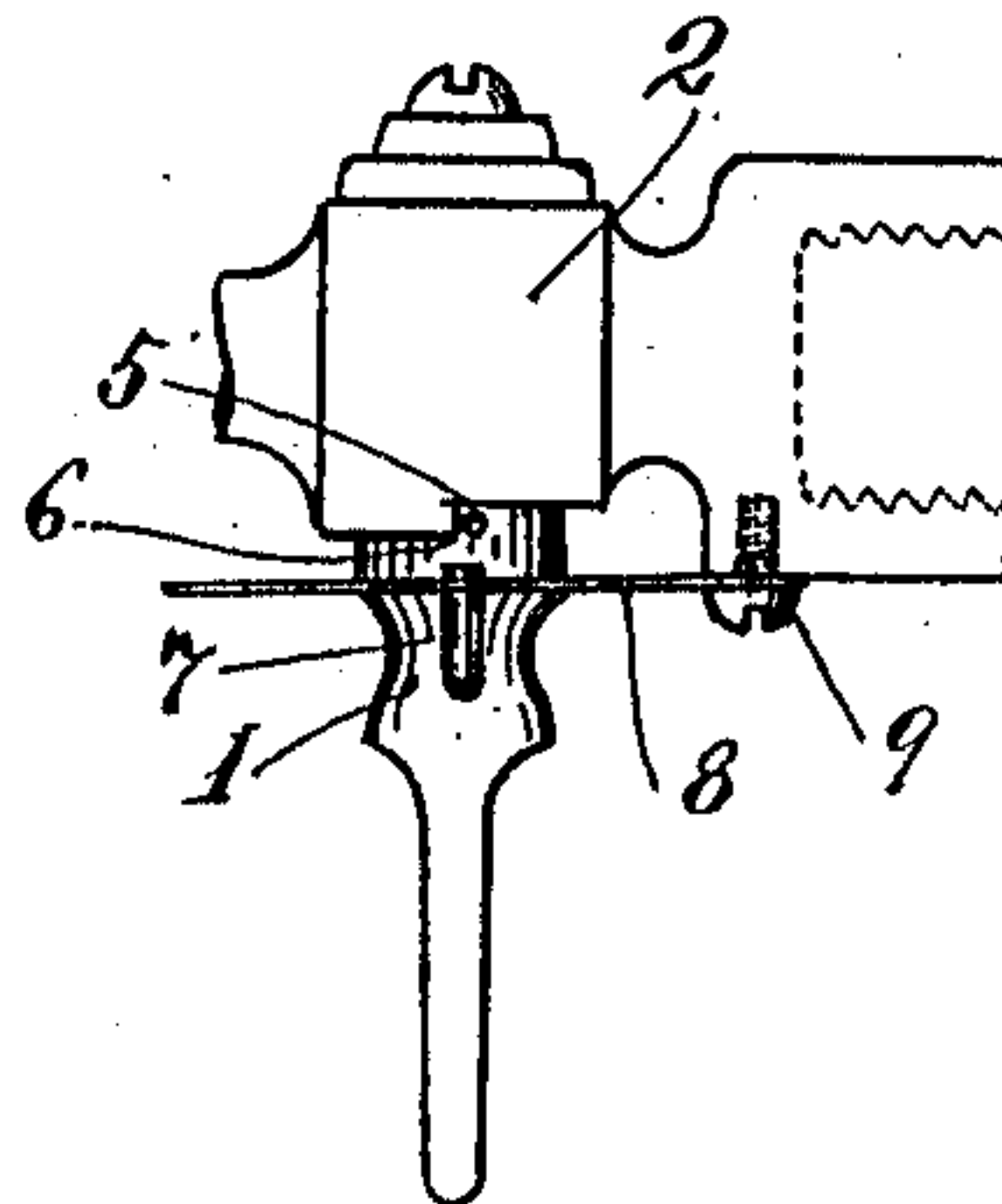


Fig. 3

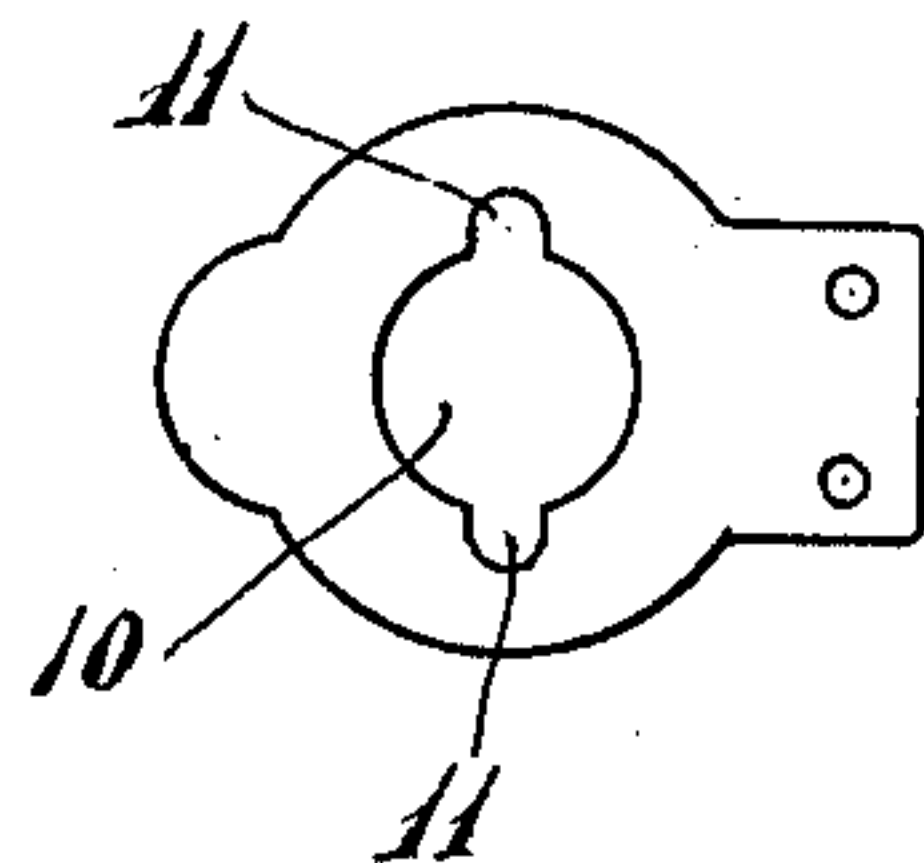
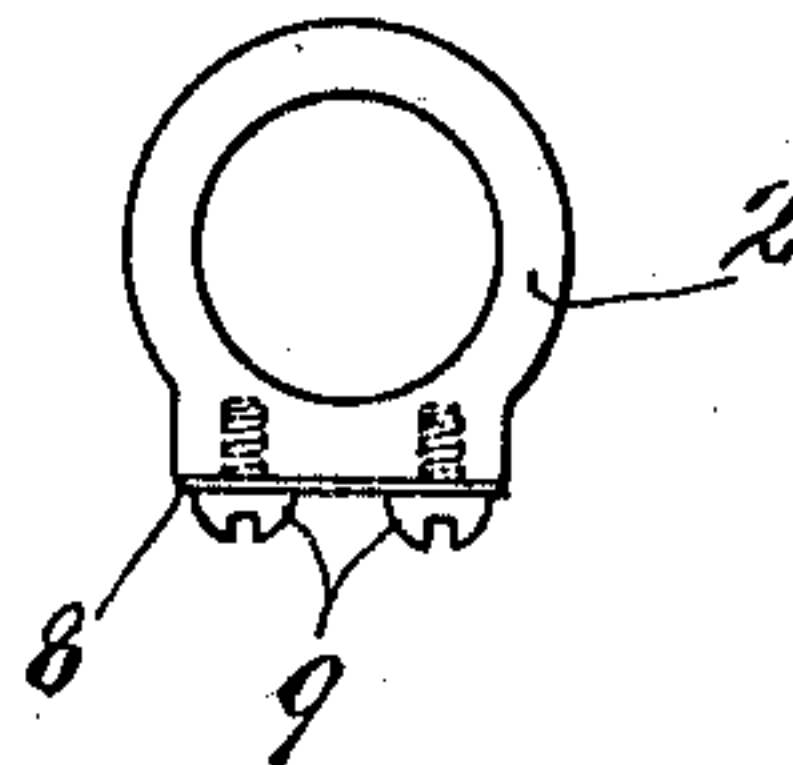


Fig. 4



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UNITED STATES PATENT OFFICE.

GUSTAF R. OLSON, OF NEW BRIGHTON, MINNESOTA, ASSIGNOR OF ONE-HALF TO
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SAFETY-LOCK FOR GAS-BURNERS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GUSTAF R. OLSON, a citizen of the United States, residing at New Brighton, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Safety-Locks for Gas-Burners; 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 has for its object to provide a simple and efficient safety lock for gas fixture valves; and to this end the invention consists of the novel devices and combinations of devices hereinafter described and defined in the claim.

In the accompanying drawing which illustrates the invention, like characters indicate like parts throughout the several views.

Referring to the drawing, Figure 1 is a view in side elevation showing my improved lock applied to the valve of the gas fixture. Fig. 2 is a view corresponding to Fig. 1 but with some parts broken away and with a valve in its closed position. Fig. 3 is a plan view of the lock removed from working position, and Fig. 4 is a detail in end elevation showing the lock and member to which it is applied.

Of the parts of the gas fixture the numeral 1 indicates the valve, the numeral 2 the wall pipe coupling the central portion of which affords a seat for the valve 1. The numeral 3 indicates an extension pipe swiveled at 4 to the member 2. The valve 1 has the customary projecting stop pin 5 which coöperates with stop shoulder 6 and the valve casing to limit the movements of the valve to approximately one-half rotation.

In applying my improved safety lock, the stem of the valve 1 is provided with one or more, preferably 2, laterally projecting lock lugs 7, and for coöperation therewith a spring lock plate 8 is secured at one end, by screws 9 or other suitable device, to the inner socket or sleeve of the member 2. This spring lock plate 8 is perforated at 10 so that it closely surrounds the stem of the valve 1 and it is formed with lock notches

11 adapted to receive the lock lug 7 of the valve, when said valve is turned into a closed position. Furthermore, the spring tension of the plate is such that when the valve is closed it will spring downward, as shown in Fig. 2, and causes the lock lug 7 to project upward through the notches 11 and thereby securely lock the valve in its closed position.

When it is desired to turn the valve into an open position it is only necessary to press slightly upward on the lock plate 8, so as to thereby disengage the notches 11 from the lug 7. Then when the valve is turned into an open position its lug 7 will hold the plate 8 in its upwardly pressed position shown in Fig. 1. As already indicated, the lock plate is otherwise engaged with a lock lug 7 whenever the valve is turned into a closed position. Furthermore, when the valve is turned into its closed position and the lock plate 8 is released it will vibrate freely and produce a slight noise as well as a slight vibration both of which serve to indicate just when the valve reaches its closed position and becomes locked by the safety device.

This improved safety lock may be applied to gas fixtures already in use as well as to those specially designed for the application of the lock.

The device is of small cost and its use makes accidents due to only partially closing of gas valves, practically impossible.

What I claim is—

The combination with a valve of a gas fixture, the stem of said valve having a laterally and upwardly projecting lock lug located between the finger piece and stop pin of said valve stem, of a spring plate secured to a fixed part of said gas fixture, having a perforation through which said valve stem is passed and provided with a lock notch coöperating with the lock lug of said valve stem, to lock said valve in a closed position, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GUSTAF R. OLSON.

Witnesses:

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