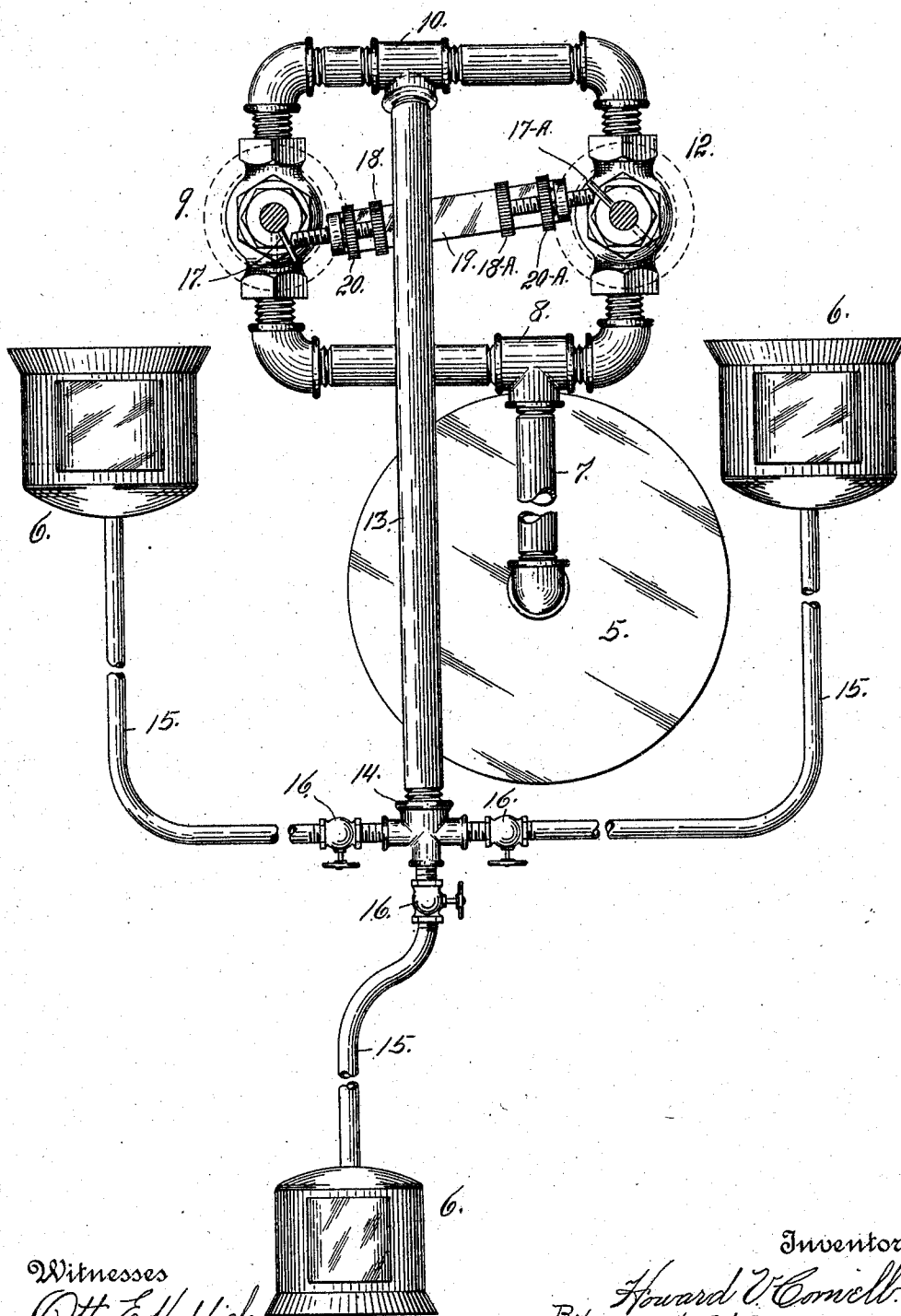


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VALVE CONTROLLED MECHANISM FOR GAS AND OTHER FLUIDS.
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981,174.

Patented Jan. 10, 1911.



Witnesses

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HOWARD V. CORNELL, OF DENVER, COLORADO.

VALVE-CONTROLLED MECHANISM FOR GAS AND OTHER FLUIDS.

981,174.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HOWARD V. CORNELL, a citizen of the United States, residing in the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Valve-Controlled Mechanism for Gas and other Fluids; 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in valve controlled mechanism for gas and other fluids. Its object is to regulate the supply of gas to one or more burners, where a minimum and maximum supply is desired at a moment's notice.

To that end, it consists in the arrangement of two valves located between the gas supply and burners, one valve being regulated to the maximum supply of gas; and the other controlling a by-pass and regulated to the minimum supply of gas.

It further consists in the arrangement and combinations hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the figure of the drawings, I have shown a gas tank with communicating pipes to three lamps, a common means for illuminating motor cars and to which my improved arrangement of controlling the supply of gas as illustrated is particularly applicable.

Similar reference characters indicate similar parts.

Let the numeral 5 designate the gas tank for supplying gas to the lamps 6. The gas on its way to the lamps passes through the pipe 7 to the T fitting 8, where it may pass either to the left, through the regulating valve 9 and its fittings to the T fitting 10 or to the right through the regulating valve 12 to the T fitting 10, or through both regulating valves 9 and 12 to the T fitting 10, thence through the pipe 13 to the fitting 14, where it is divided into the branch pipes 15, leading to the lamps 6. The branch pipes 15

are provided with valves 16, so that any one lamp may be shut off from the system.

In motor car lamps, acetylene gas is usually employed and this is stored in the tank 5 at an initial pressure of from 200 to 250 pounds and needle or point valves of fine adjustment are employed.

On the stems of the valves 9 and 12 are secured locking pins 17 and 17^A arranged for operative engagement with the adjusting screws 18 and 18^A mounted in a U-shaped member 19 and provided with locking thumb nut 20 and 20^A. The U-shaped member 19 is rigidly secured to a suitable support on which the apparatus is mounted and held in position thereby.

In operation the several parts being assembled, as shown in the drawings, the valves 9 and 12 are primarily closed, and their projecting pins 17 would be in the positions shown in dotted lines. The valve 9 is now opened to supply just sufficient gas to enable the operator to ignite the lamps and maintain a pilot light at each lamp. This supply being determined, the adjusting screw 18 is set to engage the pin 17 and locked by the thumb nut 20, thus limiting the supply of gas through the valve 9 to the predetermined amount. The valve 12 is now opened to supply sufficient gas to fully illuminate the lamps. After this position is determined the regulating screw 18^A is set to engage the pin 17^A and locked by the thumb nut 20^A.

With the above device, it will be seen that only one initial lighting of the burners is necessary, when the lamps may be readily adjusted from their minimum or pilot light to their maximum of full light, by the opening or closing of the valve 12, and the valve 9 is only closed when it is desired to extinguish all the lights.

Having thus described my invention what I claim is:

1. In a valve controlled mechanism for gas and other fluids, two valves, one located in the main supply pipe and the other in a by-pass pipe, and a transverse member in adjustable engagement with the two valves for holding said valves at a predetermined position.

2. In a valve controlled mechanism for gas or other fluids, two valves, one located in the main supply pipe and the other in a

by-pass pipe, pins mounted on the stems of
said valves, and a member provided with
adjustable stops engaging the stems for
holding said valves at a predetermined posi-
5 tion.

3. The herein described valve control for
gas or other fluids, consisting essentially of
two valves, one located in the main supply
pipe and the other in a by-pass pipe, said
10 valves having engaging pins arranged to en-

gage screw threaded stops mounted in a U-
shaped member and provided with lock nuts
for holding said valves at a predetermined
position.

In testimony whereof I affix my signature 15
in presence of two witnesses.

HOWARD V. CORNELL.

Witnesses:

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