

No. 779,803.

PATENTED JAN. 10, 1905.

G. ROCCO.
INTERMITTENT SEA LIGHT.
APPLICATION FILED MAY 13, 1904.

Fig. 1.

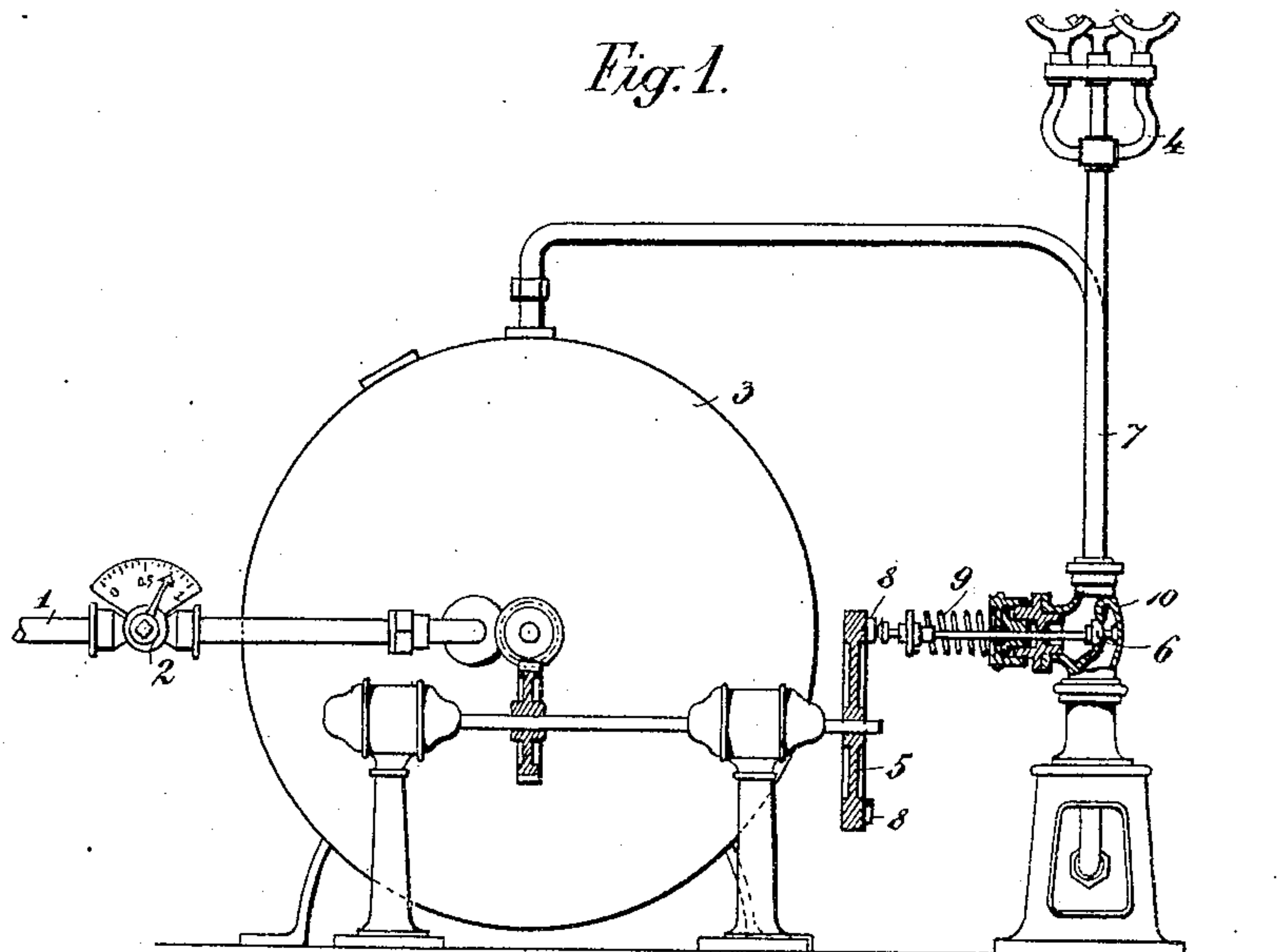
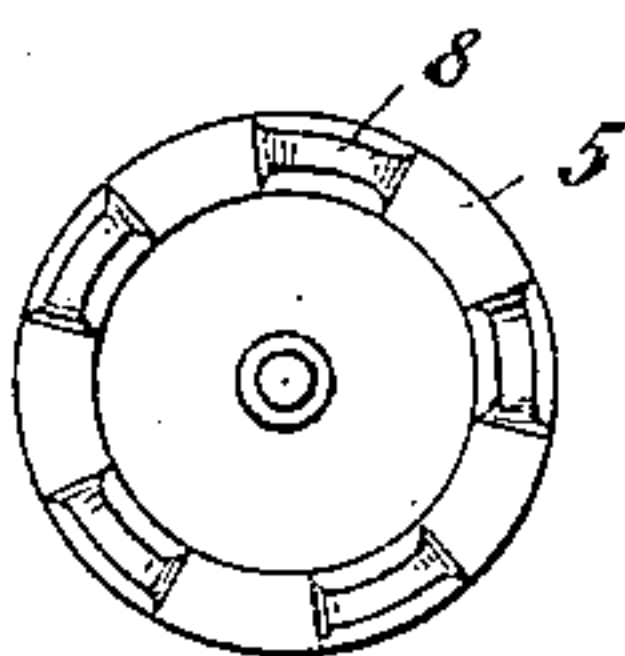


Fig. 2.



WITNESSES

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INTERMITTENT SEA-LIGHT.

SPECIFICATION forming part of Letters Patent No. 779,803, dated January 10, 1905.

Application filed May 13, 1904. Serial No. 207,778.

To all whom it may concern:

Be it known that I, GIUSEPPE ROCCO, manufacturer, a subject of the Emperor of Austria-Hungary, residing at Trieste, Empire of Austria-Hungary, have invented certain new and useful Improvements in Intermittent Sea-Lights; 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 intermittent sea-lights in which light is produced by burning a gas, preferably acetylene; and it consists in interposing a wet gas-meter of any suitable construction between the gas-supply pipe and the burner or burners and utilizing the movements of such gas-meter for intermittently and automatically changing the intensity or color, or both, of the light emitted.

In the accompanying drawings, Figure 1 is a side elevation and partial section of the apparatus comprising my present invention. Fig. 2 shows the cam-wheel.

1 is a gas-supply pipe provided with a regulating valve or cock 2 and leading into a wet gas-meter 3 of any known or preferred construction.

7 is a gas-pipe leading from the wet gas-meter 3 to the burner 4 of the lantern of the sea-light. The movement of the gas-meter 3, caused by the gas passing through the same, may be utilized in various manners for intermittently changing the intensity or the color, or both, of the light emitted.

In carrying out my invention, (shown in Figs. 1 and 2,) which is more particularly intended for smaller sea-lights in which it is desired to intermittently change the intensity only of the light emitted, the gas-meter, by means of a suitable gearing, turns a cam-wheel 5, which acts on a valve 6 in the pipe 7, leading to the burner. Whenever one of the cams 8 of this cam-wheel comes opposite the free end of the rod of the valve 6 the latter is pressed toward its seat, whereby the gas-supply to the burner is throttled, and thus the flame of the burner is reduced so that at distance the light emitted by such flame is not

perceptible. After the cam has passed the valve-rod the valve 6 is opened by a spring 9, whereby the gas-supply to the burner, and hence also the flame and the light emitted thereby, are largely increased, so that the light becomes perceptible within the whole range of the sea-light. Thus by properly distributing the cams 8 on the wheel 5 and by properly selecting the length of such cams the duration of the successive periods of light emission and darkness may be regulated according to requirements. A stop 10 in the valve-casing prevents the complete closing of the valve during the periods of darkness.

I prefer to burn acetylene in my sea-lights, not only because the light produced thereby is very intense, but also because the gas-generating plant is very simple, cheap, and does not require careful and skilled attendance.

I claim as my invention—

1. In an intermittent sea-light, the combination with a gas-supply pipe and a burner, of a wet gas-meter, a pipe connecting said meter and said burner, a valve in the last-foresaid pipe, means for normally maintaining said valve in an open position, means for preventing the valve from being completely closed, and means actuated by the operation of said meter for automatically and intermittently changing the position of said valve to vary the supply of gas to said burner.

2. In an intermittent sea-light, the combination with a gas-supply pipe and a burner, of a wet gas-meter, a pipe leading from said meter to said burner, a valve placed in the last-foresaid pipe, a stem for said valve, a spring acting against said stem to normally maintain the valve in an open position, a stop in said valve for preventing the valve being completely closed, a cam-wheel adapted to engage the end of said valve-stem and means actuated by the operation of said meter for turning said cam-wheel.

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

GIUSEPPE ROCCO.

Witnesses:

FERDINAND SABLICH, Jr.,
ROBERT TENNHIK.