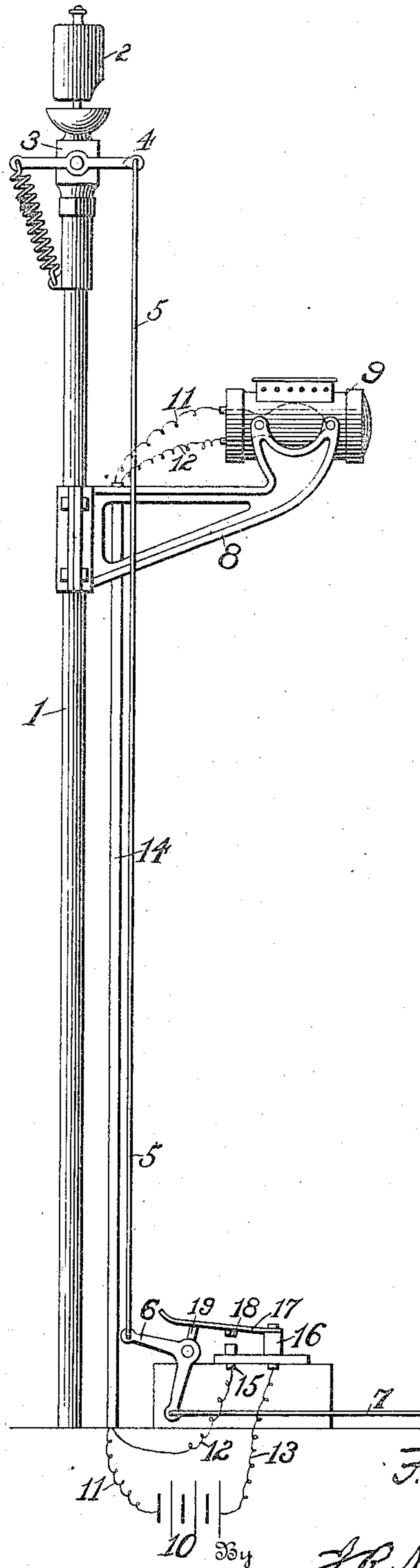


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F. C. BERWICK.
NAUTICAL SIGNAL.

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NAUTICAL SIGNAL.

No. 849,964.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed March 11, 1905. Renewed October 13, 1906. Serial No. 338,843.

To all whom it may concern:

Be it known that I, FREDERICK C. BERWICK, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Nautical Signals; 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.

This invention relates to that class of signals commonly styled "nautical" signals; and it has for its prime object a simple and effective means for warning approaching and passing vessels at night or in foggy weather of possible danger.

Other objects of the invention will become apparent upon a detailed description thereof.

The invention consists in combining with a noise-producing device, such as a whistle, a light which may be flashed or caused to glow for a given length of time, both whistle and light being operated simultaneously.

The invention further consists in the novel arrangement and combination of the several parts, as will be hereinafter fully described in this specification and briefly stated in the claim.

The figure in the drawing is a side elevation of my combined whistle and light signal.

Referring to the view illustrated, the numeral 1 indicates a suitable pipe, which may be located at any convenient place and connected to either a steam or air source of supply. The upper end of the pipe is provided with a whistle 2 of ordinary construction, and a valve 3 is provided to allow the air or steam to escape through the whistle. The valve is operated by a spring-controlled lever 4, to the free end of which is connected one end of a cord 5, the other end of the cord being attached to one arm of a bell-crank lever 6. An operating-cord 7 is attached to the other arm of the bell-crank lever.

Secured to the pipe 1 at any desired point is a bracket 8, in which is supported a lamp or lantern 9, preferably inclosing an electric

light. (Shown in dotted lines.) Current to the electric light is supplied from a battery 10 over wires 11, 12, and 13, which pass through a tube or pipe 14. One end of the wire 12 is connected with a contact-plate 15, and one end of the wire 13 is connected with a post 16, to which is attached a spring-arm 17, provided with a contact-plate 18. The bell-crank lever 6 is provided with a circuit-breaker 19, which normally holds the arm out of contact with the contact-plate 15.

The operation of the device is as follows: A pull on the cord 7 causes the withdrawal of the post 19 from the end of the arm, allowing said arm to make contact with plate 15, thereby closing the circuit and supplying current to the lamp. At the same time the circuit is closed by the release of the arm the cord 5 is caused to operate the lever 4 and blow the whistle.

While I have shown the lamp supported upon the bracket secured to the pipe 1, it will be obvious that it may be secured or located at any convenient place, and it will be understood that other changes, such as details of construction, may be made without limiting the scope of my invention.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a nautical signal, the combination of a sound-producing device, a visual signaling device, a normally closed valve, a spring-restrained lever normally holding the sound-producing device inoperative, a bell-crank lever having one arm connected with the spring-restrained lever, a circuit-breaker carried by the bell-crank lever for making and breaking the circuit, and means for operating said bell-crank lever to cause the simultaneous sounding of an alarm and the flashing of a light.

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

FREDERICK C. BERWICK.

Witnesses:

JOHN THOMPSON,
J. B. MCNERNEY.