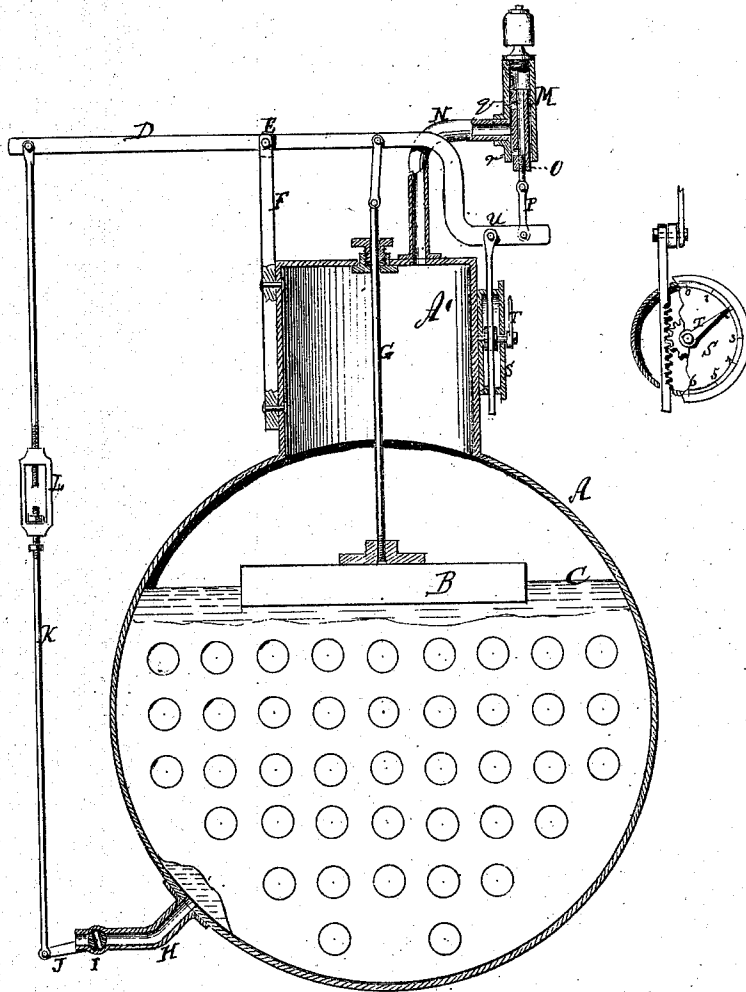


G. N. Jones,

Steam Boiler Indicator.

No. 105,461.

Patented July 19, 1870.



Witnesses:

Wm. Brooks
Calvin Tate

Inventor:

G. N. Jones
PER *Wm. C. Jones*
Attorneys.

United States Patent Office.

GEORGE N. JONES, OF CHICAGO, ILLINOIS.

Letters Patent No. 105,461, dated July 19, 1870.

HIGH AND LOW-WATER ALARM.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, GEORGE NEWTON JONES, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in a Whistle for Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention relates to steam-whistles, to give the alarm at high or low water, in the boiler of an engine.

First, it consists in an open, sliding, orificed tube, to be applied as will be particularly described hereinafter.

Second, in combining this sliding tube with a vibrating lever and float.

The drawing represents a boiler, with a float, B, rising and falling therein with the water.

This float is connected, by rod G, with the vibrating lever D, which is, by it, moved up and down.

To this lever is appended a rod, P, jointed to a threaded bolt, which fits into the tube O, and serves to adjust the same.

This tube has apertures at *q* and *r*, which register with the tube N, connecting with the steam apartment.

All the rest of the machine, exhibited in drawing, is not a part of my invention, but serves to show at a

glance the relative location of my improvements with respect to the other devices employed in connection with steam-boilers.

The mode of operation is as follows:

The steam presses constantly against the slide-valve O, and whenever the water rises above the maximum fixed upon, the float D rises, the arm *u* of the lever is borne upward, and the aperture *r* registers with the steam-tube N, when the whistle blows. On the other hand, if the water falls below the proper line of demarcation, the tube O is brought down so low that aperture *q* registers with the tube N, when the whistle also blows.

Having thus described all that is necessary to a clear understanding of my invention,

What I claim as new, and desire to protect by Letters Patent, is—

1. The slide-valve tube O in a whistle, M, open at its upper end, and orificed at *p* and *q*, as and for the purpose specified.

2. In combination with the aperture sliding tube O, the lever D, and float B, as and for the purpose set forth.

G. N. JONES.

Witnesses:

J. F. BINNY,
H. T. MURRAY.