(No Model.) 2 Sheets—Sheet 1.

F. A. JONES.

RECORDING PRESSURE GAGE.

No. 287,685. Patented Oct. 30, 1883.



FIG. 2.

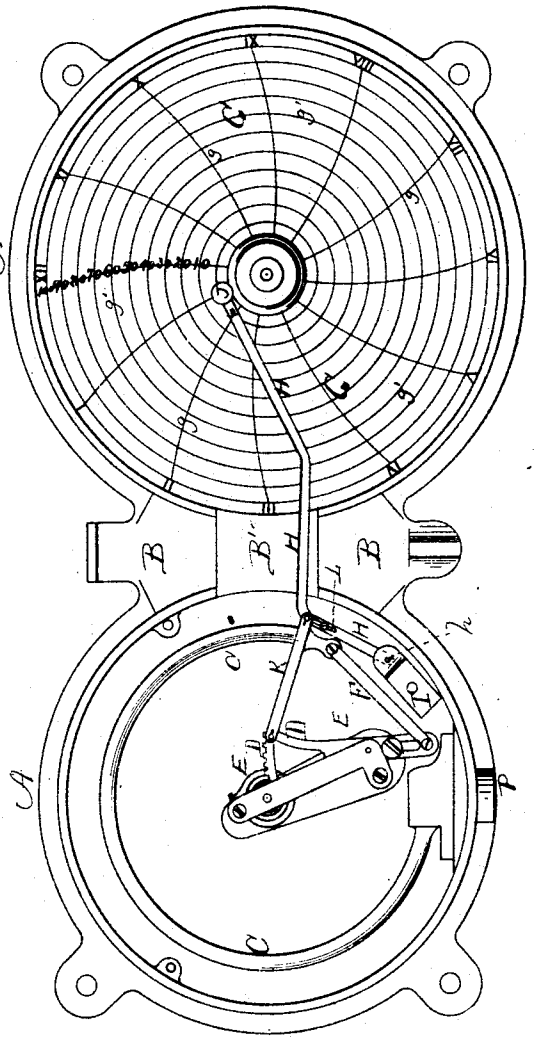


FIG. 1.

WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

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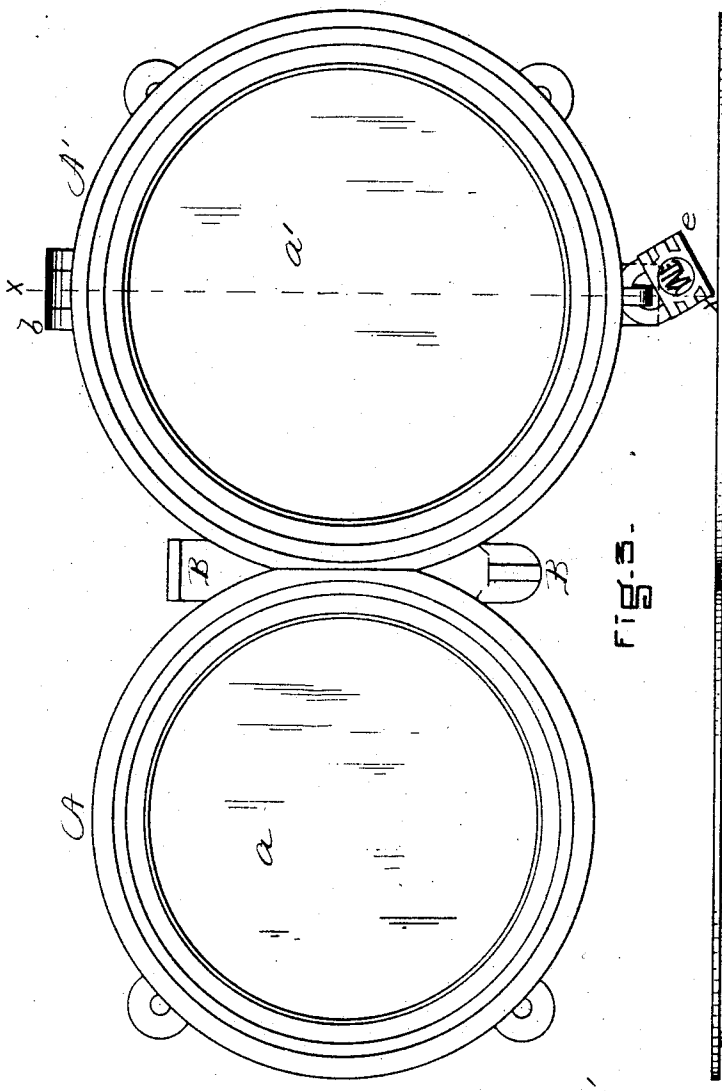


Fig. 3.

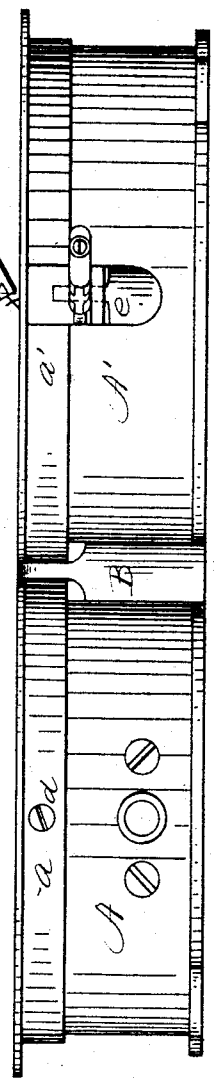


Fig. 4.

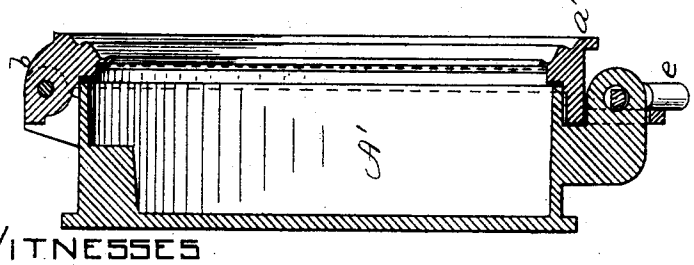


Fig. 5.

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UNITED STATES PATENT OFFICE.

FLORENTINE A. JONES, OF NEW YORK, N. Y.

RECORDING PRESSURE-GAGE.

SPECIFICATION forming part of Letters Patent No. 287,685, dated October 30, 1883.

Application filed June 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, FLORENTINE A. JONES, of the city, county, and State of New York, have invented new and useful Improvements in Recording Pressure-Gages, of which the following is a specification.

This invention relates to gages for showing the extent and variations of pressure in steam-boilers, cylinders, or other vessels containing air, gas, liquid, or other fluids, and is an improvement on the invention for which I and one Sylvester Glines made application for Letters Patent, said application having been filed May 19, 1883.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a plan view of my improved recording pressure-gage with the dial of the gage-box removed. Fig. 2 is a detailed section of the pointer. Fig. 3 is a plan view of the case complete. Fig. 4 is a front elevation of the same. Fig. 5 is a section on line *x x*, Fig. 3.

A and A′ are boxes secured to each other by the connection B, which has a passage, B′, for the accommodation of the connecting mechanism.

C represents a Bourdon spring, and E the ordinary mechanism of a steam-gage, consisting, essentially, of a segmental rack, D, pivoted near its rear end and meshing into a pinion carrying the pointer. (Not shown in the drawings.)

F is a link connecting the spring C with the mechanism E, which gives movement to the pointer, showing, in connection with a dial, the steam-pressure.

G is a dial rotated by a clock-movement, and having upon its surface twelve radial curved lines, *g*, corresponding with the number of hours in a half-day, and a certain number of concentric circles, *g′*, corresponding with the pressure indicated upon the dial of the steam-gage.

H is a lever, crooked for convenience, and pivoted at *h* to the standard I, so as to freely swing back and forth, and provided at its free end with the pencil J.

K is the connecting-rod, extending from the lever H to the segmental rack D directly, instead of to the part shown in the invention above alluded to, and L is a slat in said lever, by means of which the point of attachment of the connecting-rod may be changed at will.

In operation, as steam or other fluid enters the hollow spring C through the hollow plug P, the pressure acting on the inner surface of the spring causes it to expand or contract as the pressure is greater or less, and this movement is communicated by means of the rod K to the lever H, thus causing the pencil J to vibrate with the movement of the spring and with the pointer on the dial of the steam-gage, and give a delineation of the pressure and the time of any change therein on the dial G, which is arranged to rotate once in twelve hours.

It will be seen by referring to Figs. 3, 4, and 5 of the drawings, that the gage-box A is provided with a fast cover, *a*, rigidly secured and kept closed by the screw *d*, or other suitable means, while the box A′ has a hinged cover, *a′*, hinged in this instance at the back *b*, and adapted to be locked by the padlock *e*. The box A is not often to be opened, while the box A′ should be easily accessible in its interior.

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

In a recording pressure-gage, the combination of the following parts, viz: a suitably-secured Bourdon spring, the segmental rack D, pivoted, as shown, the lever H, pivoted to the standard I, and provided with an indicating or delineating device, a suitable surface for the recording of the pressure, the connecting-rod K, pivoted to the lever H and the front end of the rack D, and the connecting rod or link F, all arranged and constructed substantially as and for the purpose set forth.

FLORENTINE A. JONES.

Witnesses:

HENRY W. WILLIAMS,

JOSEPH ISHBAUGH.