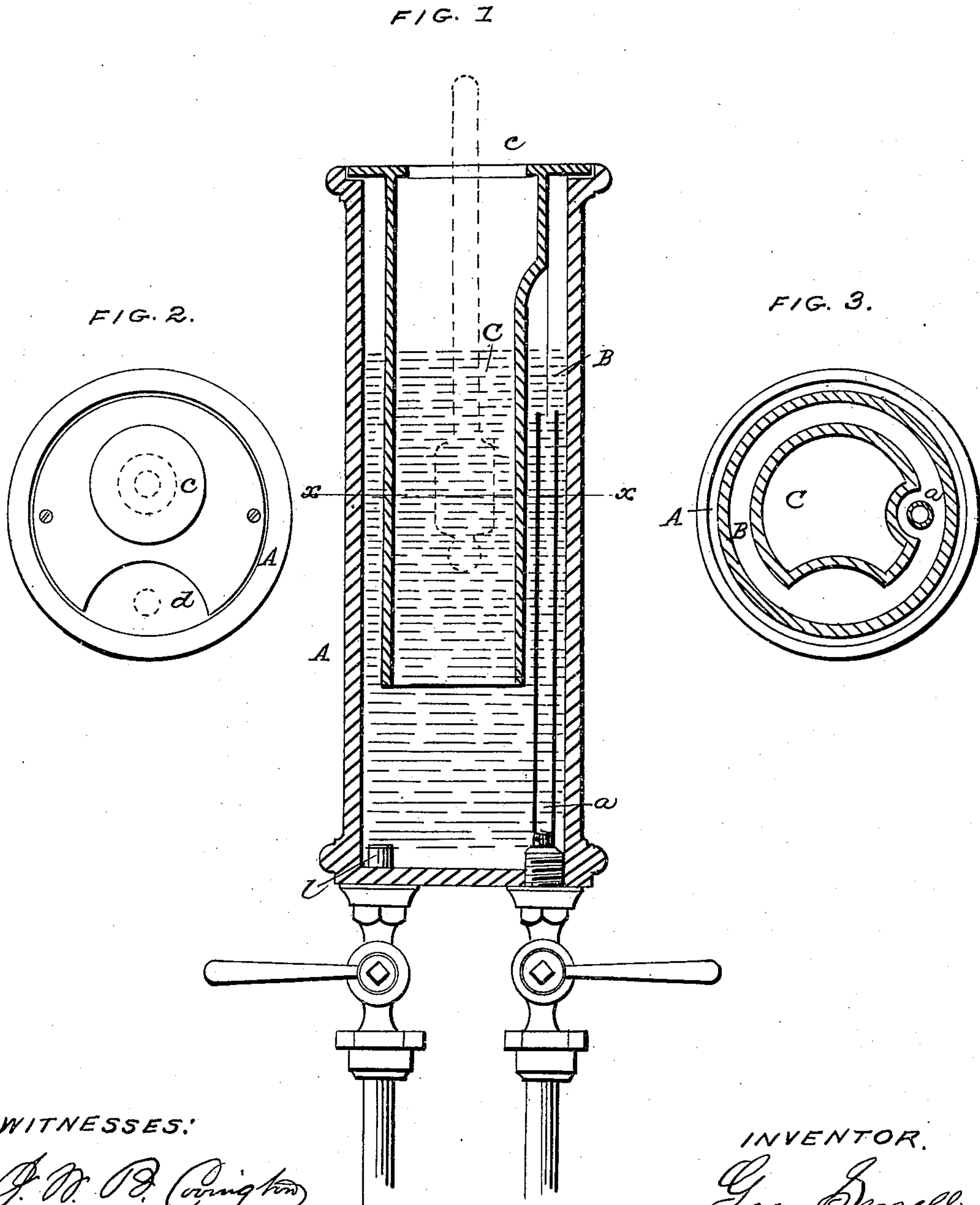


G. SEWELL.
Saline Meter Pot.

No. 54,073.

Patented April 17, 1866.



WITNESSES:

J. W. B. Carington
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INVENTOR.

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UNITED STATES PATENT OFFICE.

GEORGE SEWELL, OF POUGHKEEPSIE, ASSIGNOR TO THE AMERICAN TOOL
AND MACHINE COMPANY, OF NEW YORK, N. Y.

IMPROVEMENT IN SALINOMETER-POTS.

Specification forming part of Letters Patent No. 54,073, dated April 17, 1866.

To all whom it may concern:

Be it known that I, GEORGE SEWELL, of Poughkeepsie, in the county of Dutchess and State of New York, have invented a new and Improved Salinometer-Pot; 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 drawings, in which—

Figure 1 represents a vertical central section of this invention. Fig. 2 is a plan or top view of the same. Fig. 3 is a transverse section of the same, taken in the plane indicated by the line *x x*, Fig. 1.

Similar letters of reference indicate like parts.

This invention consists in the arrangement of a secondary chamber in the interior of a salinometer-pot, in combination with the induction-pipe, in the manner shown, so that the water issuing from said pipe is compelled to pass down and then up into the space containing the hydrometer, and by these means the current of water is broken, and the engineer or person having charge of the salinometer is not exposed to the danger of being scalded by the water flying out of the pot.

A represents a salinometer-pot, which is provided with an induction-pipe, *a*, and a discharge-pipe, *b*, both being closed by suitable stop-cocks, so that water from the boiler can be let into the pot and discharged therefrom at any desired moment. The interior of the pot is divided in two distinct chambers—viz., the main chamber B and the secondary chamber C the latter being formed by an open tubular vessel placed

in an inverted position into the pot, as shown, or it may be formed in any other desirable manner. The induction-pipe *a* rises in the main chamber C to a level much above the bottom edge of the secondary chamber, and an opening, C, in the top of the pot gives access to said secondary chamber for the purpose of introducing the hydrometer. The thermometer is introduced through another aperture, *d*. When the induction-pipe is opened the water issuing from the same is compelled to pass down before it is permitted to enter the secondary chamber, and the person having charge of the salinometer is not exposed to the danger of being scalded by the water rushing out from the induction-pipe.

With ordinary salinometer-pots the utmost caution is required to prevent the water from boiling over when let into the pot, and it has therefore been proposed to use the pots side by side. My pot accomplishes the same thing in one vessel, and a placid surface is obtained in which the hydrometer floats.

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

The secondary chamber C, which is open at the bottom, in combination with the main chamber B and induction-pipe *a* of a salinometer-pot, A, constructed and operating substantially as and for the purpose set forth.

The above specification of my invention signed by me this 11th day of January, 1866.

GEO. SEWELL.

Witnesses:

M. M. LIVINGSTON,
W. HAUFF.