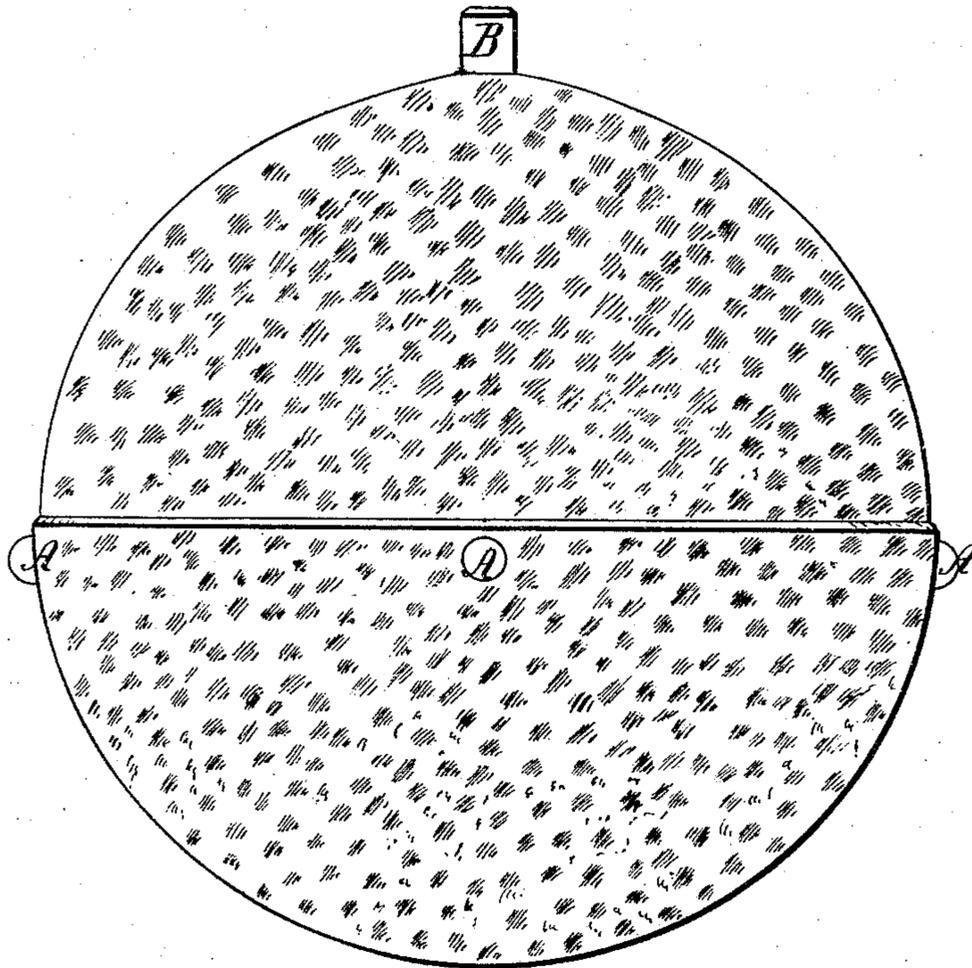


*L. L. Lee.*

*Forging Water-Gauge Floats.*

*N<sup>o</sup> 57,929.*

*Patented Sept. 11, 1866.*



*Witnesses*  
*W. B. Smith*  
*Percy B. Smith*

*Inventor*  
*L. L. Lee*

# UNITED STATES PATENT OFFICE

L. L. LEE, OF MILWAUKEE, WISCONSIN.

## IMPROVED WATER-GAGE FLOAT.

Specification forming part of Letters Patent No. 57,929, dated September 11, 1866.

*To all whom it may concern:*

Be it known that I, L. L. LEE, of the city and county of Milwaukee, and State of Wisconsin, have invented a new and useful Improvement in Water-Gage Floats for Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a perspective view of the same.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my float of sheet-copper, made in the form of a globe or ball, hollow to give it buoyancy.

A shows knobs to keep it from the sides of the chamber when a chamber is used for it to float in; B, a short tube or neck with a thread in it, into which is screwed the stem which operates an indicator.

To enable this float to stand the necessary

amount of pressure without collapsing, I hammer it with a small hammer, striking it lightly all over its surface, but not heavy enough to make large bruises. This I do without filling the float with anything to support the copper against the blows of the hammer.

The little dots or specks in the drawing show the hammer-tracks. By this hammering the float is made to stand an amount of pressure many times as much as it would without such process. The blows struck on the float in this process of hardening are just heavy enough to make a slight impression, and are continued till the entire surface is covered with hammer-marks.

What I claim as my invention, and wish to secure by Letters Patent, is—

A float hammer-hardened in the manner and for the purpose substantially as described.

L. L. LEE.

Witnesses:

J. B. SMITH,  
PERCY B. SMITH.