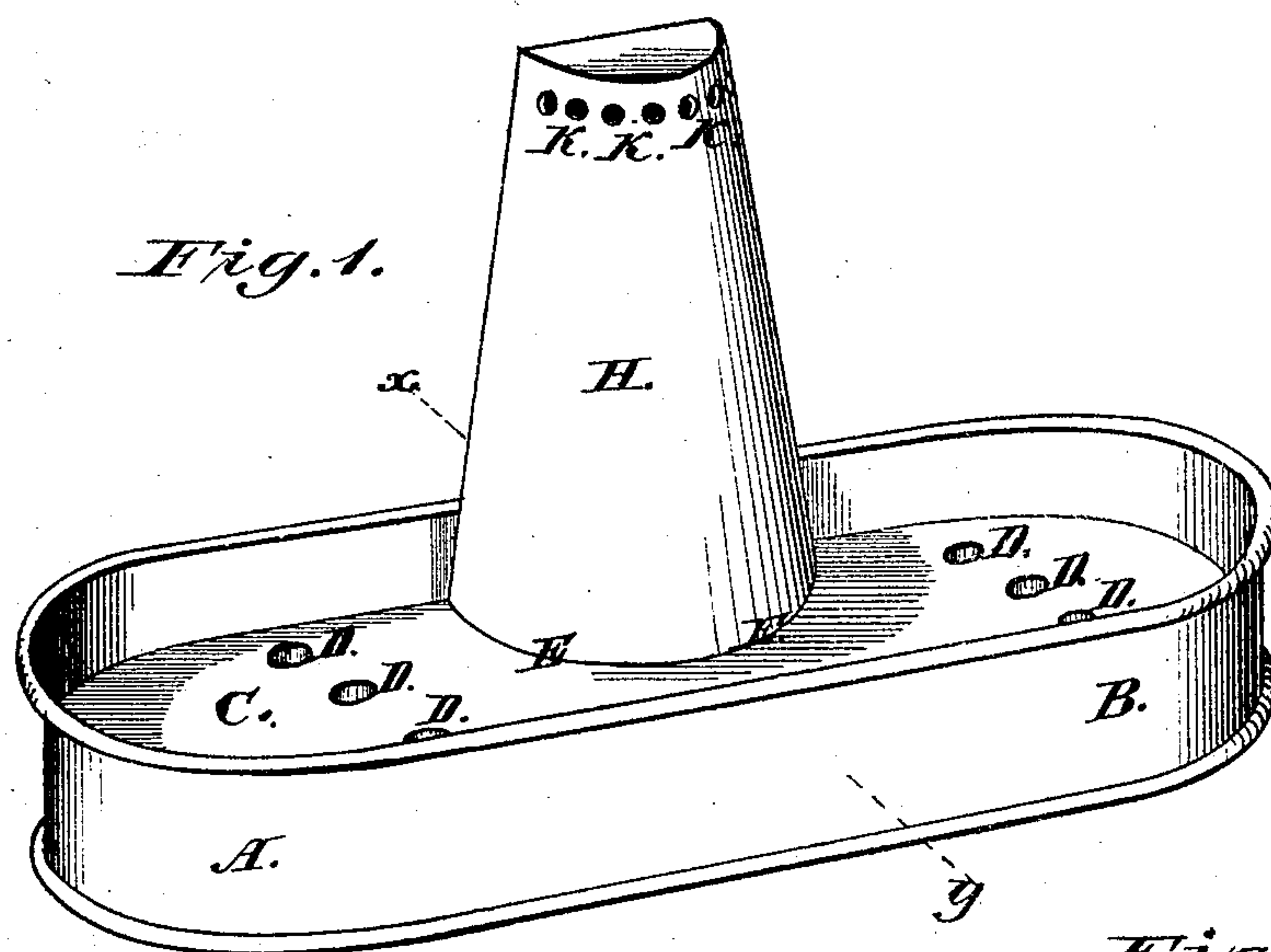


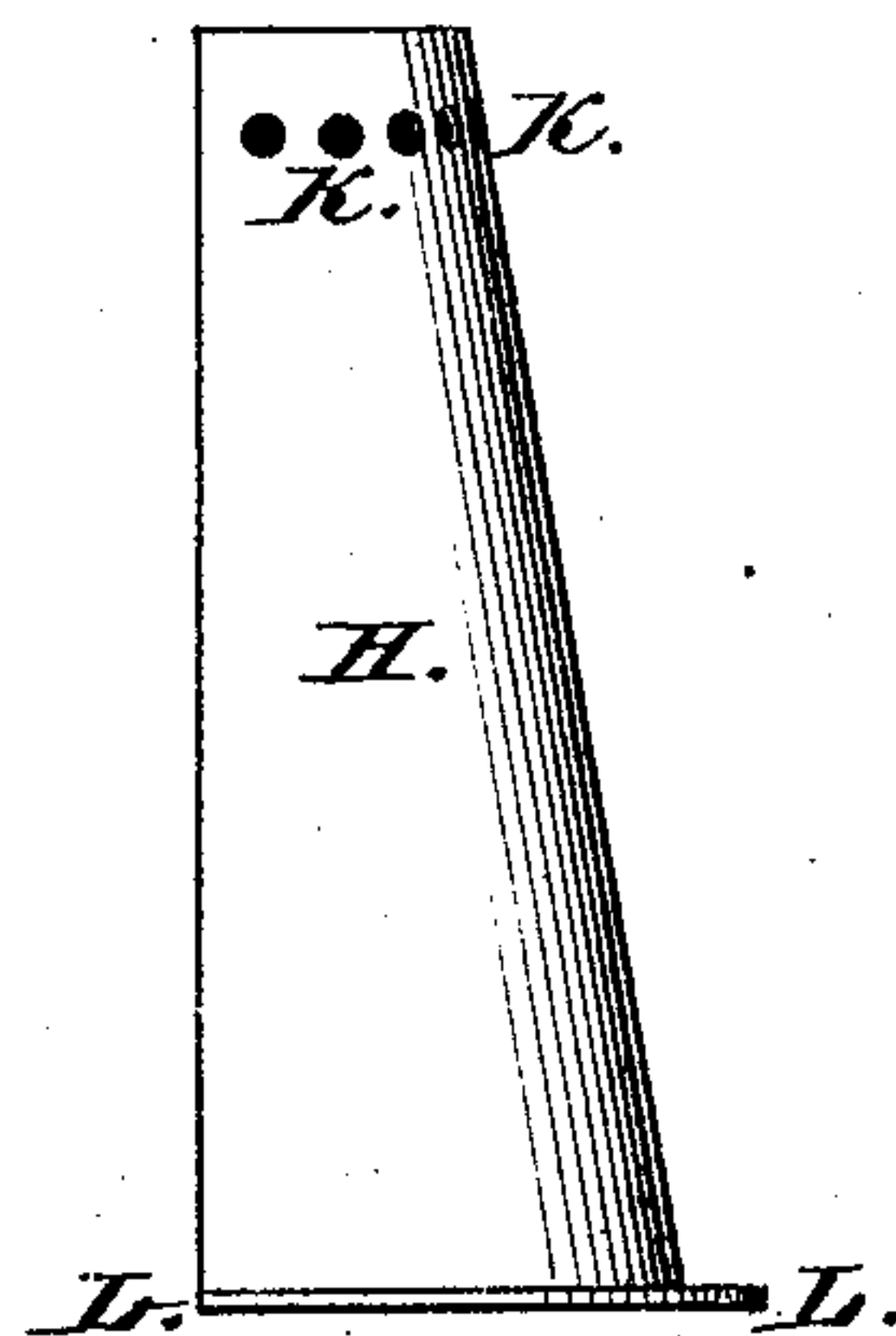
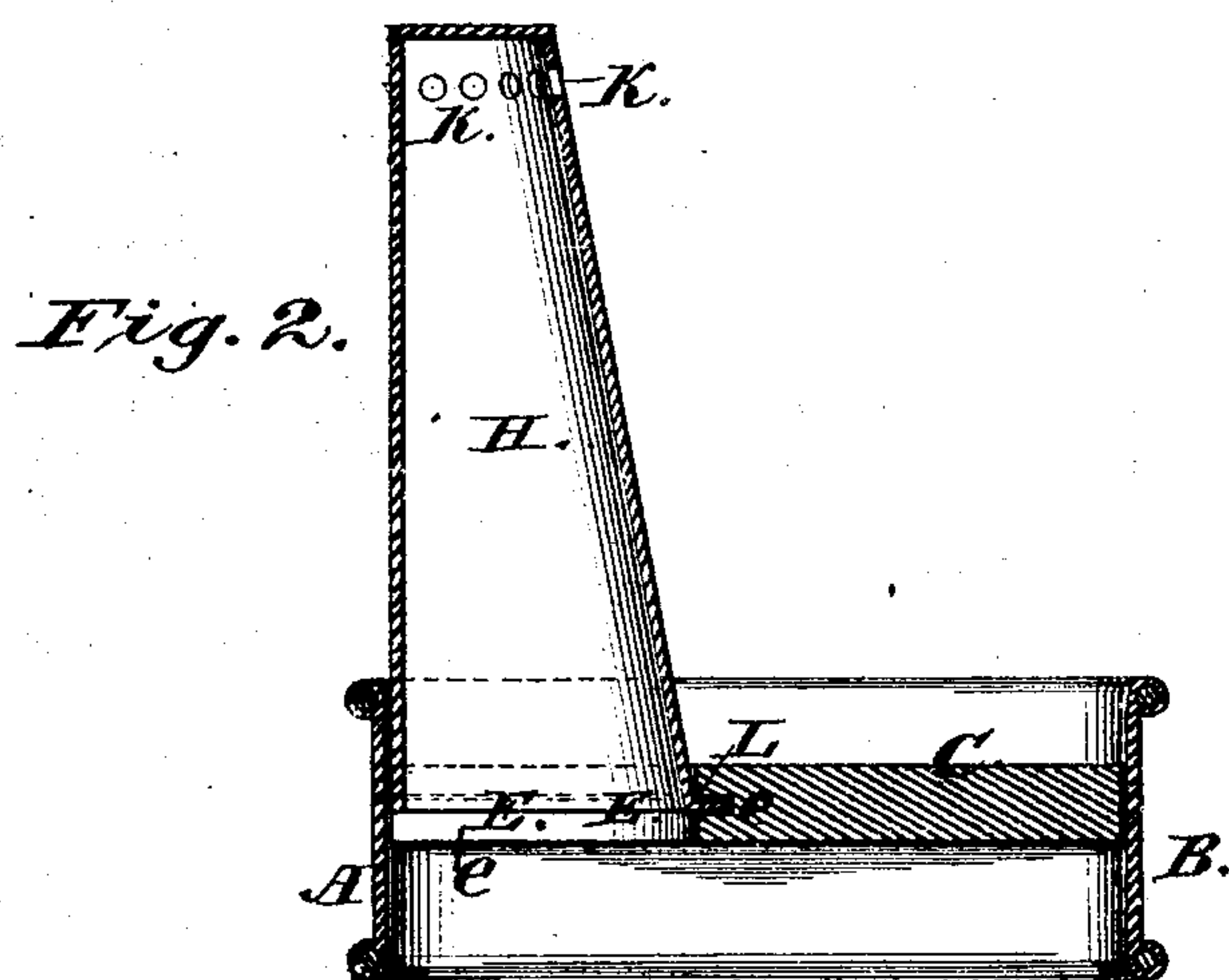
C. H. STRAFFIN.  
Wash-Boilers.

No. 147,195.

Patented Feb. 3, 1874.



*Fig. 3.*



*Inventor.*  
Charles H. Straffin.

*Witnesses.*  
Frank G. Parker. J. William Eason  
H. Lys. J. J. J.

# UNITED STATES PATENT OFFICE

CHARLES H. STRAFFIN, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **147,195**, dated February 3, 1874; application filed May 17, 1873.

*To all whom it may concern:*

Be it known that I, CHARLES H. STRAFFIN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Wash-Boiler, of which the following is a specification:

The object of my invention is to simplify and cheapen the construction of that part of a steam wash-boiler which causes the water to overflow and circulate. The nature consists in the improved construction, which may be best understood by reference to the drawings and following description.

Figure 1 is a perspective view of the parts which cause the overflow of the water. Fig. 2 is a vertical section of the same taken through the line *x y* of Fig. 1. Fig. 3 is a view of the water-tube.

Let A B represent an elliptical band made of any suitable thin metal, and of such size and shape as to fit with considerable accuracy the interior of the boiler, to which it is to be applied. C is an elliptical-shaped piece of board having perforations D D D, as shown in Fig. 1. E E, Figs. 1 and 2, is a recess cut into the board C, said recess being provided with a scarf or kerf, *e e*. The tube H is formed, as shown, having perforations K K K near its top. The lower concave edge of the tube is made with a flange, L L, which fits into the kerf *e e* of the board C. To unite the parts I

press the lower end of the tube H into the recess E E, the flange L L fitting into the kerf *e e*. Then the board C with the tube H is pressed into the band A B, to which it may be secured by nails or screws; or, if desirable, the band A B may have a corrugation formed in it to receive the lower side of the board, and thus hold it from going down. Resistance to upward pressure may be secured by indenting the band just above the board.

To use my invention, the desired quantity of water is placed in the boiler, and the clothes to be cleansed placed in the boiler above the board C. Now, if the water is made to boil, steam is formed below the board, which, producing a pressure on the water, forces it up through the tube H and out of the perforations K K K onto the clothes, through which it will settle to the bottom of the boiler, and in its turn be again forced up through the tube H.

I claim as my invention—

The water-tube H provided with flange L, in combination with the board C and band A B, arranged as described, and for the purpose set forth.

CHAS. H. STRAFFIN.

Witnesses:

FRANK G. PARKER,  
WILLIAM EDSON.