

SILAS BENNETT.  
Improvement in Wash Boilers.

No. 119,300.

Patented Sep. 26, 1871.

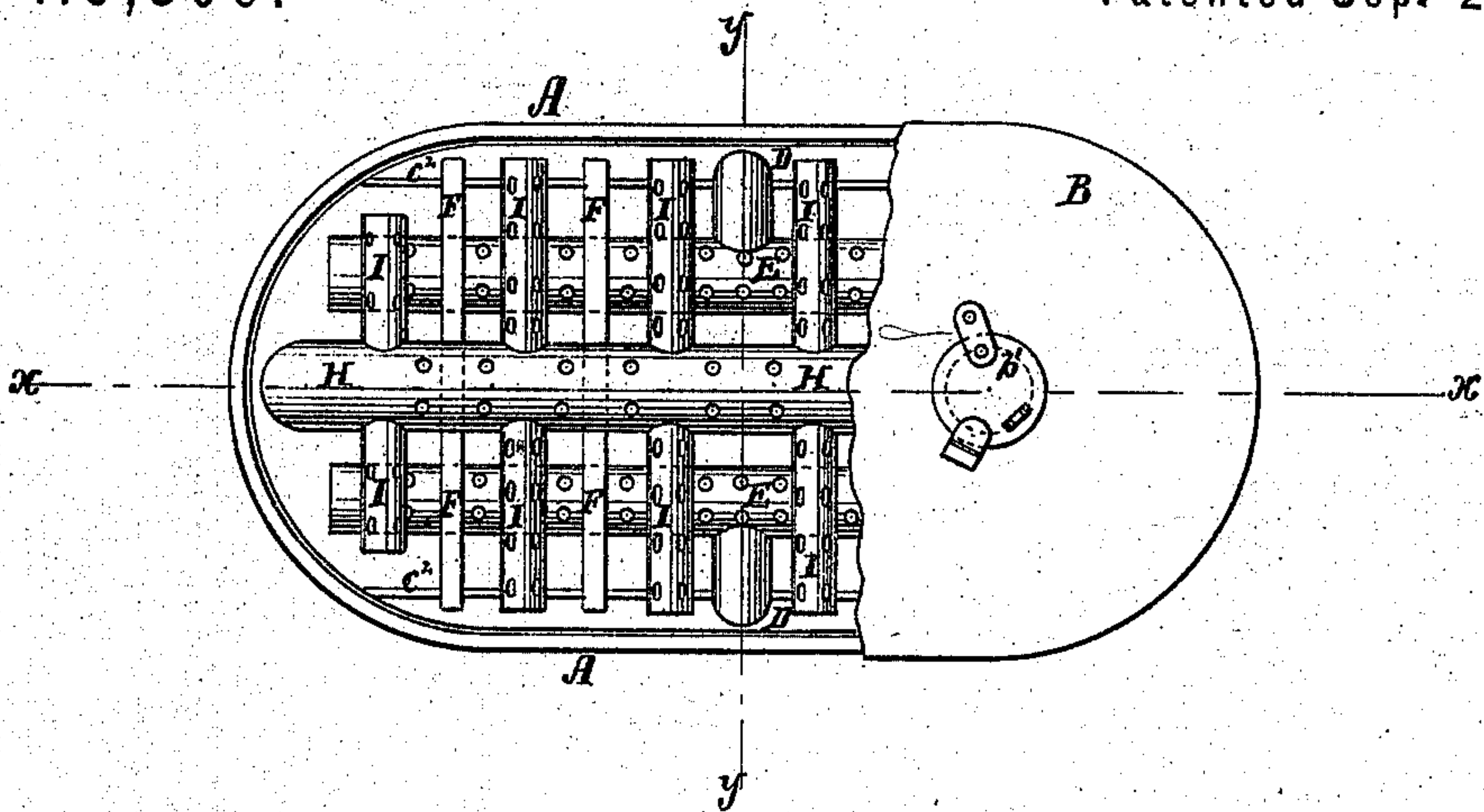
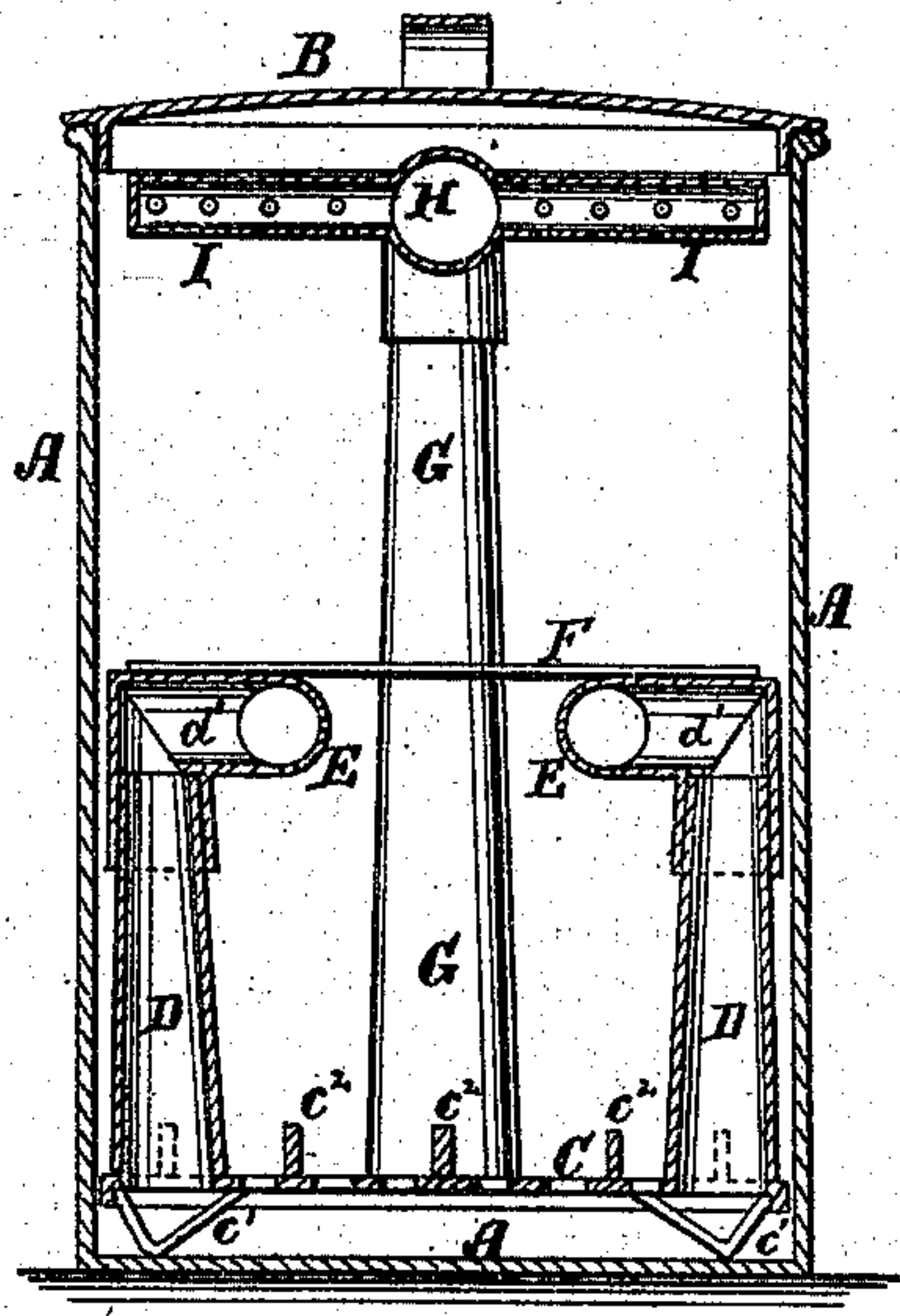
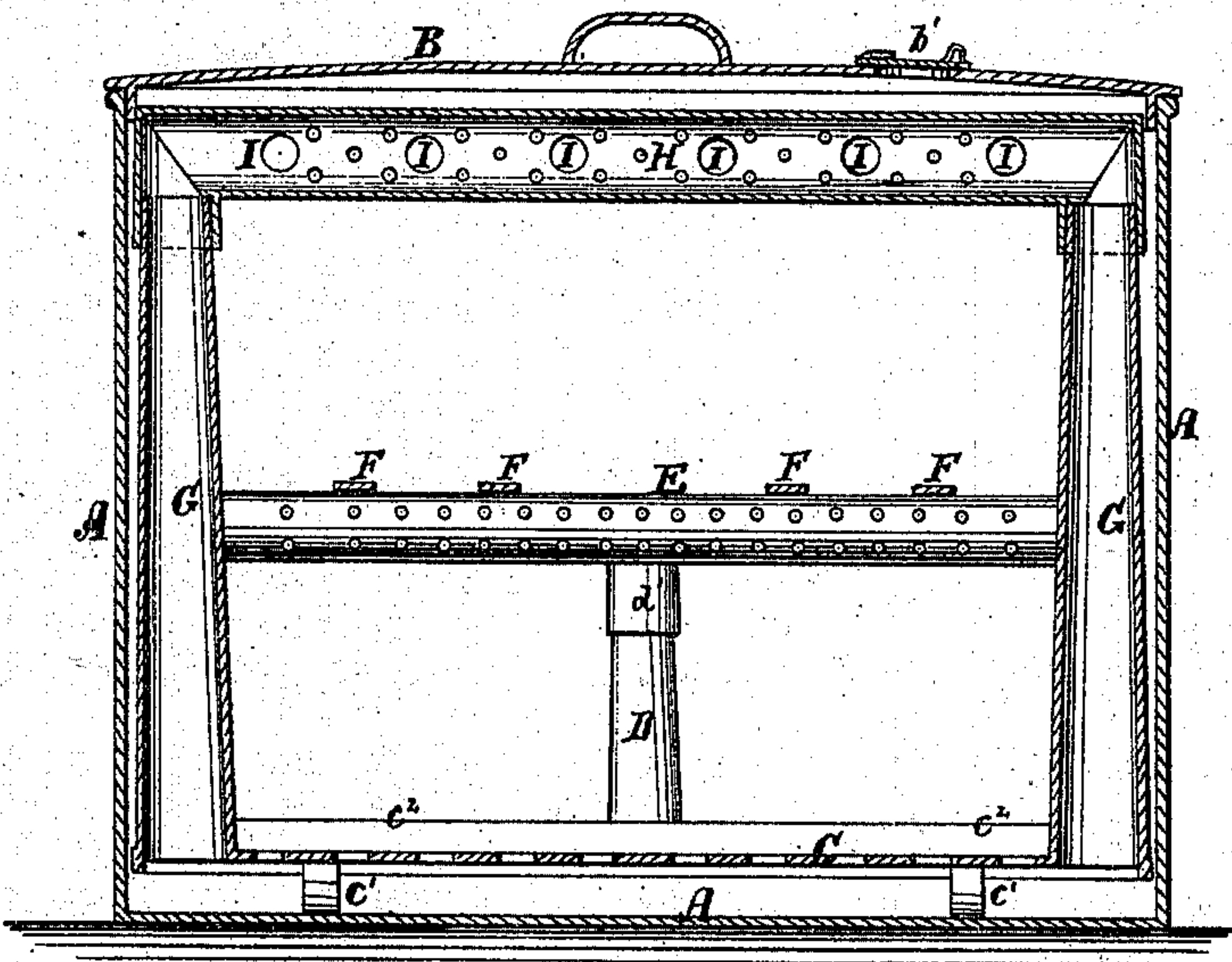


Fig. 2.

Fig. 3.



Witnesses:

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# UNITED STATES PATENT OFFICE.

SILAS BENNETT, OF NEWCASTLE, PENNSYLVANIA.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 119,300, dated September 26, 1871.

*To all whom it may concern:*

Be it known that I, SILAS BENNETT, of Newcastle, in the county of Lawrence and State of Pennsylvania, have invented a new and useful Improvement in Wash-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 a part of this specification, in which—

Figure 1 is a top view of my improved wash-boiler, part of the cover being broken away to show the construction. Fig. 2 is a detail vertical longitudinal section of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail vertical cross-section of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved boiler for washing clothes, which shall be so constructed and arranged as to distribute the circulating suds evenly over all parts of the clothes so as to wash the clothes evenly and avoid staining them, as is the case where large streams of suds are discharged continuously in one place; and it consists in the construction and arrangement of the various pipes and distributing-tubes, as hereinafter more fully described.

A is the boiler, which is constructed in the ordinary manner, and is provided with a close cover, B, which is provided with an adjustable valve, *b'*, to allow the surplus steam to escape when required and thus prevent the suds from boiling over. C is a perforated false bottom, which is supported at a little distance above the true bottom of said boiler A by short studs or legs *c'*. To the upper sides of the bottom C is attached or upon it is formed a series of upwardly-projecting flanges or ribs, *c<sup>2</sup>*, to prevent the clothes from being pressed down or packed upon the bottom C and thus preventing the suds from flowing back freely into the space below the said bottom C. To the middle part of the bottom C,

near its side edges, are attached the lower ends of two pipes, D, which open into the space beneath the false bottom C. The pipes D extend upward about half the height of the boiler A, and are connected at their upper ends by means of elbows *d'* with two tubes, E, which are finely perforated to allow the suds to escape in fine streams. The elbows *d'* should be of such a length as to bring the perforated tubes E about midway between the sides and center of the boiler A. The perforated tubes E should have cross-strips F attached to them, to keep the clothes above the tubes E from pressing down upon the clothes below said tubes and thus becoming packed into a close mass. To the false bottom C, near its end edges, are attached the lower ends of the pipes G, which open into the space below the said bottom C. The pipes G extend up to or nearly to the top of the boiler A, and with their upper ends are connected the ends of a tube, H, which extends longitudinally across the middle part of the boiler and is finely perforated to discharge the circulating suds in small streams upon the clothes. With the perforated tube H are connected small cross-tubes I, which are also finely perforated. By this construction the circulating suds will be evenly distributed in small streams over all parts of the clothes, washing them quickly and thoroughly.

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

The flanged and perforated bottom C, vertical pipes D *d'* G, longitudinal perforated tubes E H, small perforated cross-tubes I, and cross-strips F, constructed and arranged in connection with each other, and with the boiler A and cover B, substantially as herein shown and described, and for the purpose set forth.

SILAS BENNETT.

Witnesses:

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