

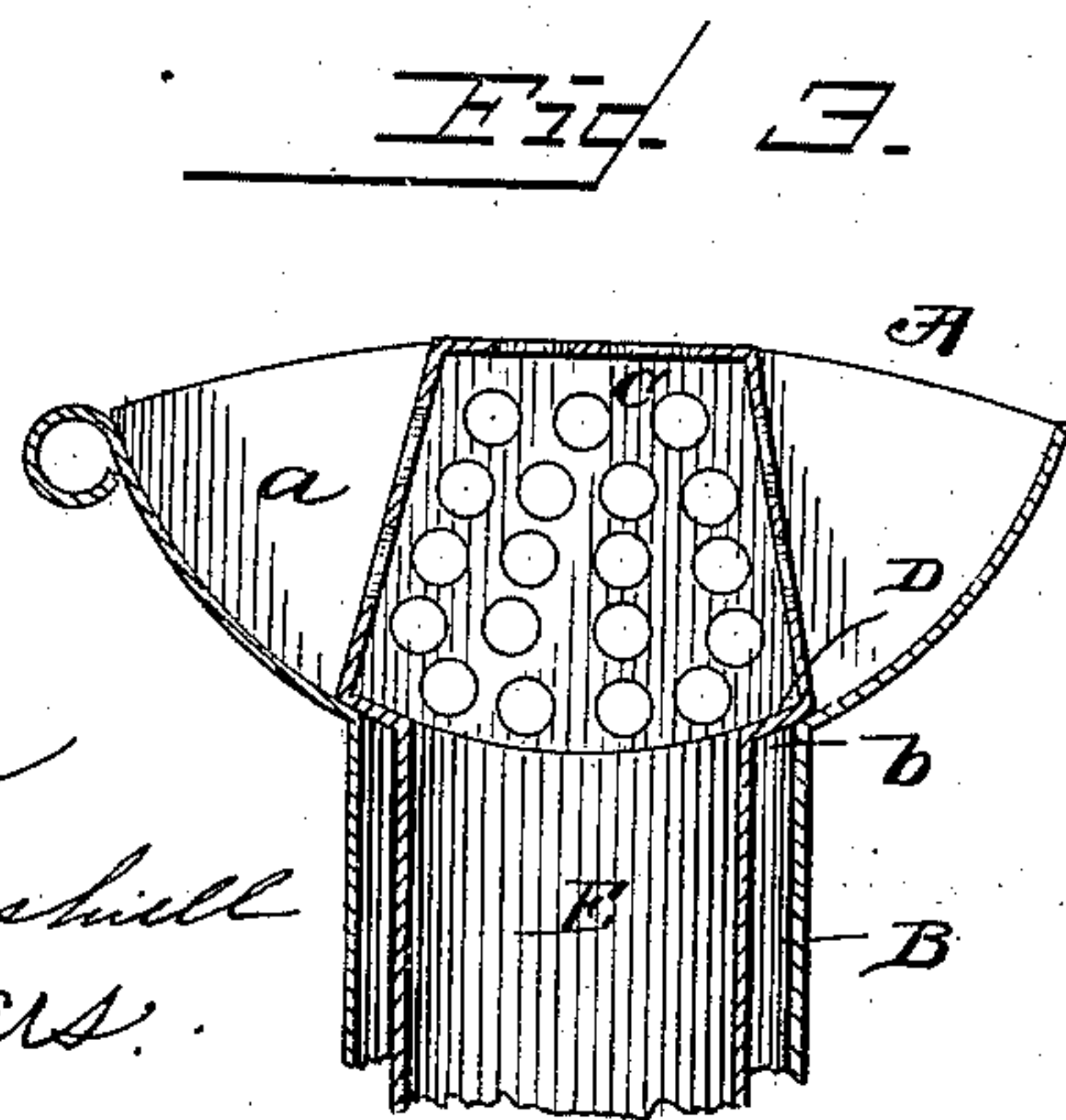
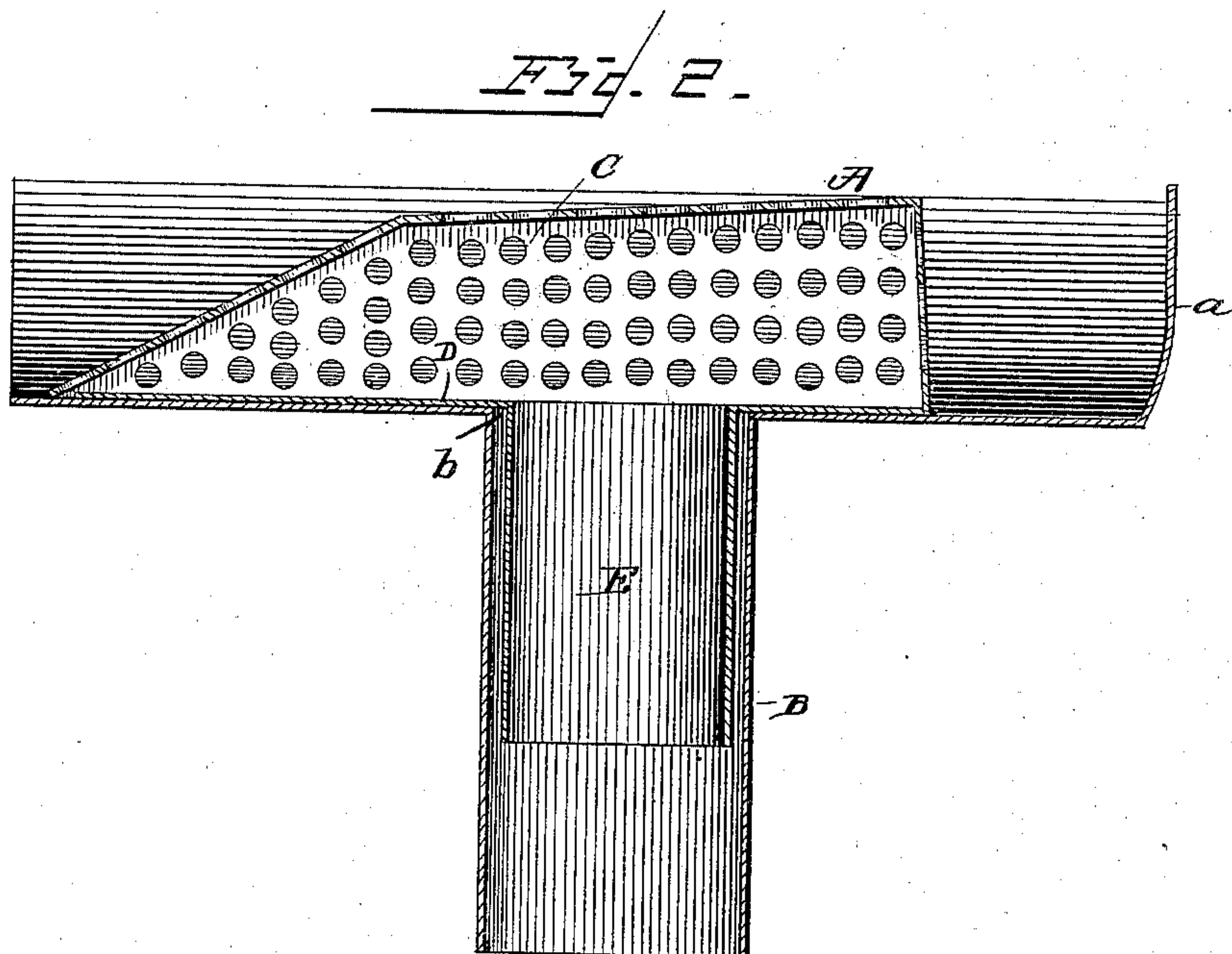
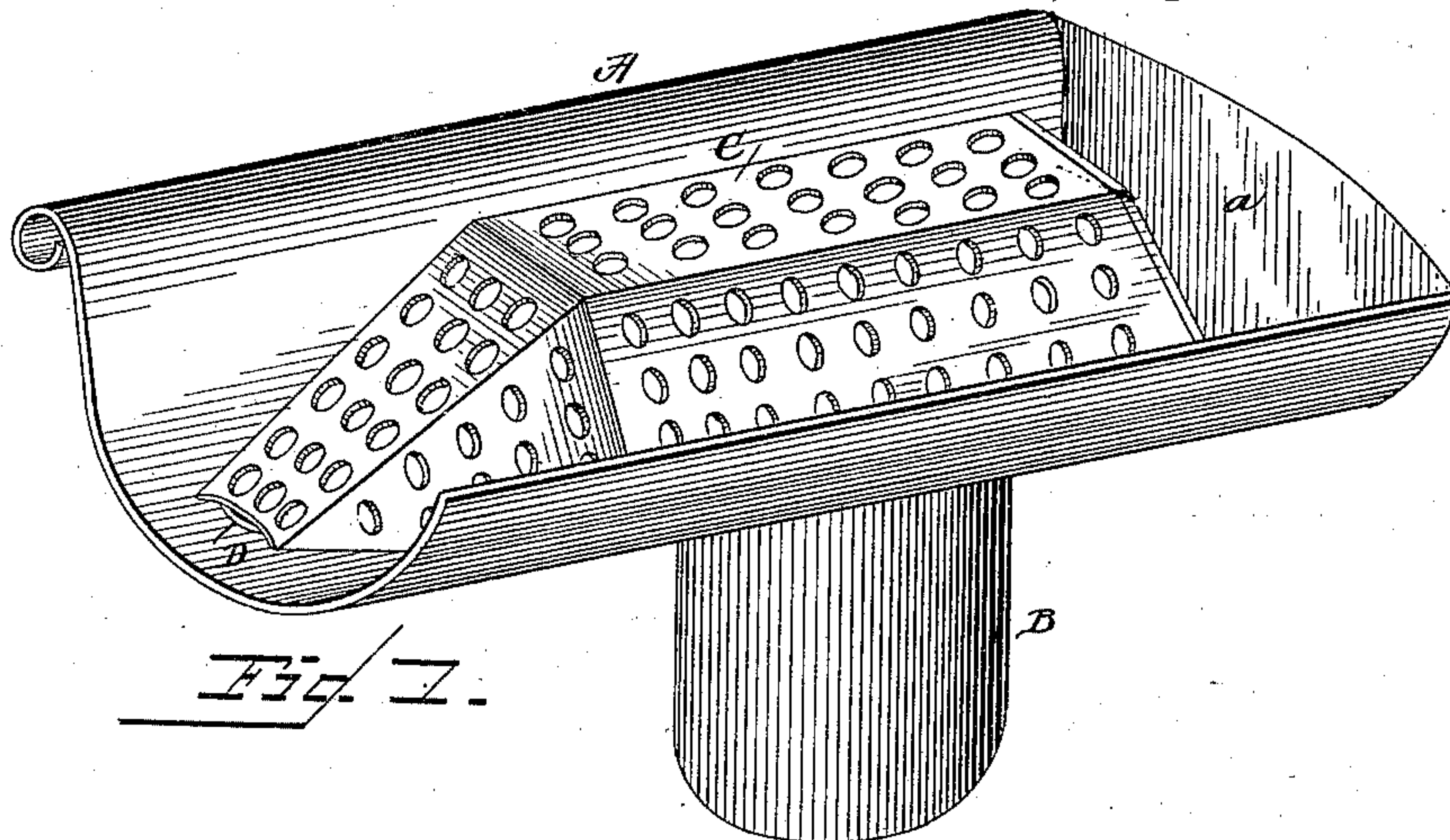
(No Model.)

H. H. SCHUMANN & C. MUTH.

EAVES TROUGH.

No. 316,578.

Patented Apr. 28, 1885.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY H. SCHUMANN AND CHARLES MUTH, OF TROY, PENNSYLVANIA;
SAID SCHUMANN ASSIGNOR TO SAID MUTH.

EAVES-TROUGH.

SPECIFICATION forming part of Letters Patent No. 316,578, dated April 28, 1885.

Application filed January 23, 1885. (No model.)

To all whom it may concern:

Be it known that we, HENRY H. SCHUMANN and CHARLES MUTH, citizens of the United States, residing at Troy, in the county of Bradford and State of Pennsylvania, have invented a new and useful Improvement in Eaves-Troughs, of which the following is a specification, reference being had to the accompanying drawings.

Our invention relates to eaves-troughs, and it has for its object to provide the same with a strainer, whereby the entrance of leaves, twigs, and other matter to the outlet-spout will be prevented.

A further object of the invention is to provide a strainer which may be readily and easily applied to eaves-troughs in ordinary use, and to provide a device for this purpose which shall be cheap and simple in its construction, effective in its operation, and to provide a device for the purpose mentioned which will be thoroughly serviceable in use.

With these ends in view the invention consists in the improved construction and combination of parts hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a sufficient portion of an eaves-trough to illustrate the application of our invention thereto. Fig. 2 is a longitudinal vertical section of the same, and Fig. 3 is a transverse section.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents the eaves-trough, having the closed end *a*, and a hole or opening, *b*, near said closed end.

Fitting in the opening of the eaves-trough, and secured to the sides of the same, is an outlet-pipe, B, having its upper end bent upon the inner side of the trough and secured, preferably, by soldering.

C represents the strainer, which consists of

the bottom plate, D, concave in cross-section, so that it will fit the eaves-trough. The bottom piece, D, is provided with a hole or opening, around which is secured a pipe, E, which is adapted to fit in the outlet-pipe B. The side walls of the strainer incline or converge, and the rear end wall is perpendicular, said walls being perforated, as shown. The front wall of the strainer, which is also perforated, inclines upwardly from the end of the bottom plate to the top of the strainer, and the side walls of the strainer converge toward said forward end. It will thus be seen that said forward end of the strainer is much thinner in cross-section than the central portion of the said strainer. By this arrangement of the strainer it is not so likely to become stopped with leaves and other matter as it would be if it were formed with a perpendicular end wall.

It will be seen that the strainer above described may be manufactured and supplied at a slight cost, and that it is adapted to be applied to all eaves-troughs in ordinary use, and with but little trouble. It may be readily removed to allow the eaves-trough to be cleaned. It is effective in its operation, and strong and durable.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The herein-described strainer, comprising a plate having a downwardly-extending pipe, converging sides, inclined front end, and perpendicular rear end, of perforated sheet metal, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

HENRY H. SCHUMANN.
CHARLES MUTH.

Witnesses:

DAVID W. CASE,
JNO. S. NICHOLS.