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INLET PIPE FOR BOILERS, TANKS, AND THE LIKE

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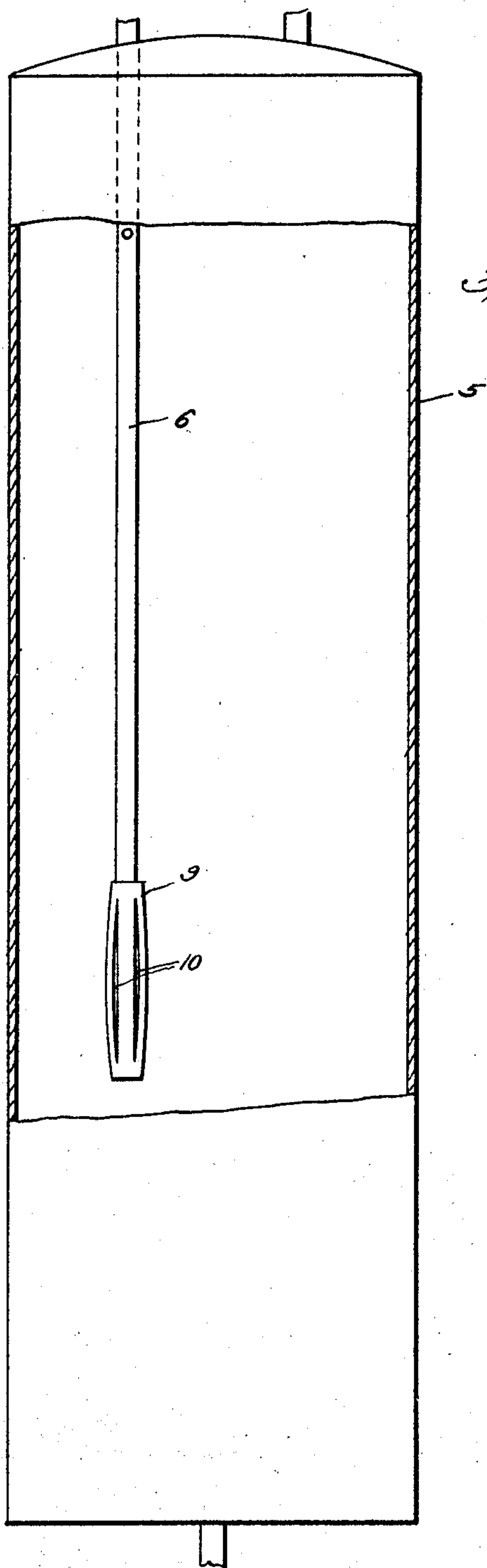


Fig. 1.

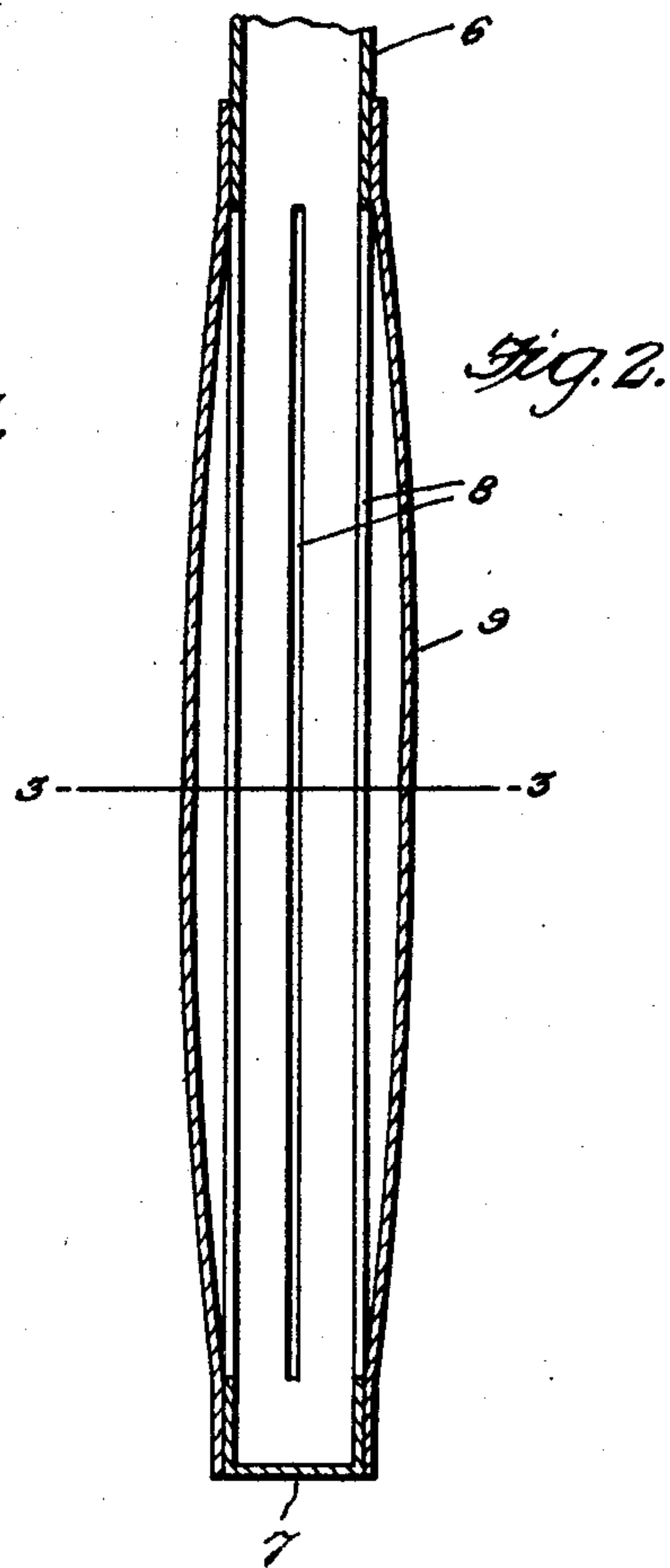


Fig. 2.

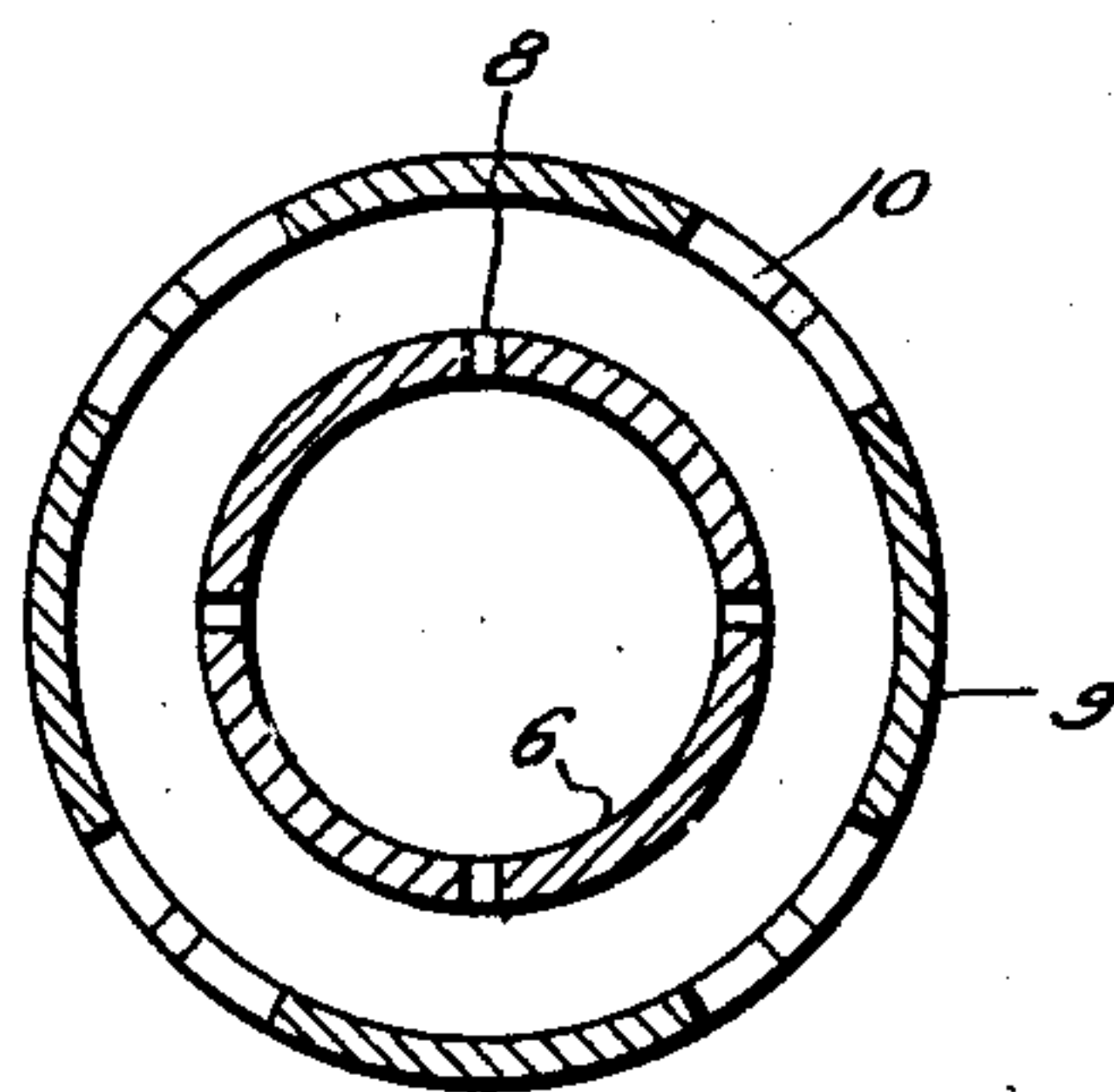


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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INLET PIPE FOR BOILERS, TANKS, AND THE LIKE.

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The present invention relates to an inlet pipe for boilers, storage tanks and the like and has for its prime object to provide a pipe whereby fluid may be injected into a boiler, tank or the like without disturbing the sediment therein.

Another very important object of the invention resides in the provision of a pipe or tube leading into a boiler, storage tank or the like and providing on the inner end of the tube or pipe a closure therefor and slitting the inner end of the tube longitudinally and providing a sleeve thereover, said sleeve bulging outwardly at its intermediate portion and being longitudinally slitted, the slits of the tube being offset in relation to the slits of the sleeve.

A still further very important object of the invention resides in the provision of novel means for preventing the stirring up of sediment in a boiler which is simple in its construction, inexpensive to manufacture, and thoroughly efficient and reliable in use.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a sectional elevation of a boiler showing my improved inlet pipe associated therewith,

Figure 2 is a longitudinal section through the inner end of the inlet pipe, and

Figure 3 is an enlarged transverse section therethrough taken substantially on the line 3—3 of Figure 2.

Referring to the drawing in detail it will be seen that the numeral 5 denotes a boiler, storage tank or the like into which projects an inlet pipe 6 preferably from the top end thereof and terminates a distance above the bottom thereof. As is well known sediment usually collects in the bottom of the boiler.

The inner end of the pipe 6 is closed as is indicated at 7 and the portions of the pipe immediately adjacent the closed end 7 are

longitudinally slitted as is indicated at 8. A sleeve 9 is disposed over the slitted end of the pipe 6 and has its intermediate portion disposed outwardly.

This tube 9 is slitted longitudinally as is indicated at 10 and the slits 10 are arranged so as to be offset in respect to the slits 8 as is clearly illustrated in Figure 3.

From the above detailed description it will be seen that incoming water is caused to be sprayed to the side rather than directly downwardly so as not to disturb the sediment in the bottom of the boiler or storage tank and furthermore the force of the incoming water is dissipated by the arrangement of the slits 10 in respect to the slits 8 since the tube 9 functions as a baffle.

It is thought that the construction, utility and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been disclosed in detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. In combination, a boiler, an inlet pipe extending into the boiler, means closing the inner end of the pipe, said pipe immediately adjacent the closed end being provided with longitudinally extending slits, a tube over the slitted end of the pipe and having longitudinal slits.

2. In combination, a boiler, an inlet pipe extending into the boiler, means closing the inner end of the pipe, said pipe immediately adjacent the closed end being provided with longitudinally extending slits, a tube over the slitted end of the pipe and having longi-



tudinal slits, said tube being bulged outwardly from the pipe at its intermediate portion.

3. In combination, a boiler, an inlet pipe  
5 extending into the boiler, means closing the inner end of the pipe, said pipe immediately adjacent the closed end being provided with longitudinally extending slits, a tube

over the slitted end of the pipe and having longitudinal slits, said tube being bulged 10 outwardly from the pipe at its intermediate portion, the slit in the tube being alternately arranged in respect to the slits in the pipe.

In testimony whereof I affix my signature.

GEORGE H. GUNDLACH.