(No Model.)

J. C. RIDLEY.

MUD ARRESTER FOR STEAM BOILERS.

No. 301,755. Patented July 8, 1884.

Fig. 1.

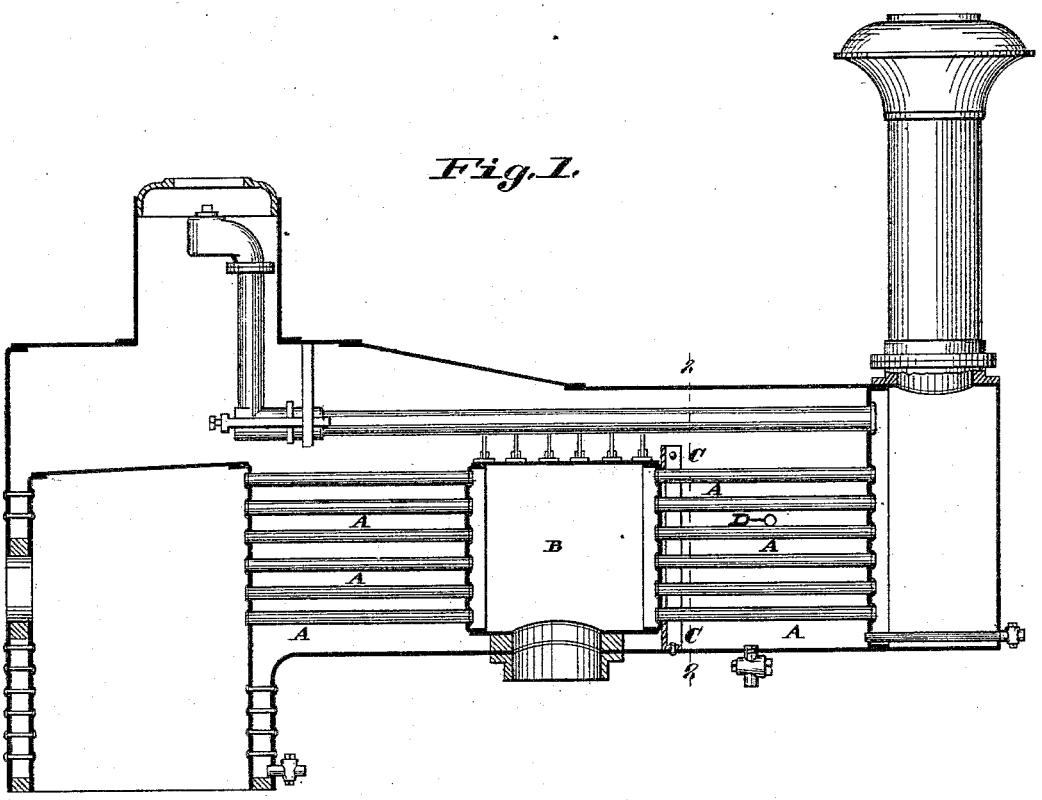
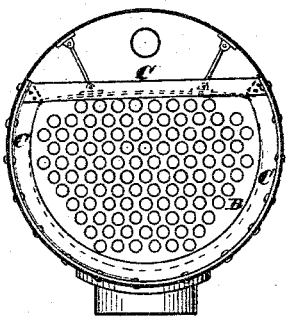


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOSEPH C. RIDLEY, OF ST. LOUIS, MISSOURI.

MUD-ARRESTER FOR STEAM-BOILERS.

SPECIFICATION forming part of Letters Patent No. 301,755, dated July 8, 1884.

Application filed February 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH C. RIDLEY, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Mud-Arresters for Steam-Boilers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a longitudinal section of a steam-boiler with my improvement applied; and Fig. 2 is a transverse section of same, taken on line 2 2, Fig. 1.

My present invention relates to an attachment to steam-boilers, whereby the mud and sediment which settles in the front part of the boiler can be removed without and are prevented from getting to the rear or fire end of the boiler.

My invention consists in features of novelty hereinafter described, and pointed out in the claims.

Referring to the drawings, A represents the flues of an ordinary boiler, which are divided and connected by a chamber, B. These features are shown and described in a patent granted to me February 11, 1884, No. 293,537.

C represents a strip of iron or other metal, located close to one end of the chamber, to prevent the mud and water passing from the front to the rear end of the boiler, where the mud causes great injury to the walls of the fire-box. I prefer to locate the strip at the front end of the chamber, and I prefer to use T-iron and to rivet it to the boiler, as shown. It will thus be seen that the motion of the train (where the invention is used on locomotive-boilers) and the washing out of the front end of the boiler, which is effected by water introduced through a pipe, D, as usual, will not cause the mud that settles in the front end of the boiler to pass to the back end, the strip thoroughly preventing it. I prefer to extend the strip a little above the top of the chamber and to extend it across the boiler at the top of the chamber, as shown.

I claim as my invention—

1. The combination of the boiler with divided flues, chamber, and strip, the strip located at one end of the chamber, for the purpose set forth.

2. The combination of the boiler having divided flues, chamber, and strip of T-iron, the strip extending entirely around the chamber and riveted to the boiler, substantially as and for the purpose set forth.

JOSEPH C. RIDLEY.

In presence of—
GEO. H. KNIGHT,
SAML. KNIGHT.