H. R. WASEM.

SAND DISTRIBUTER FOR LOCOMOTIVES.

APPLICATION FILED SEPT. 2, 1909.

954,233. Patented Apr. 5, 1910.

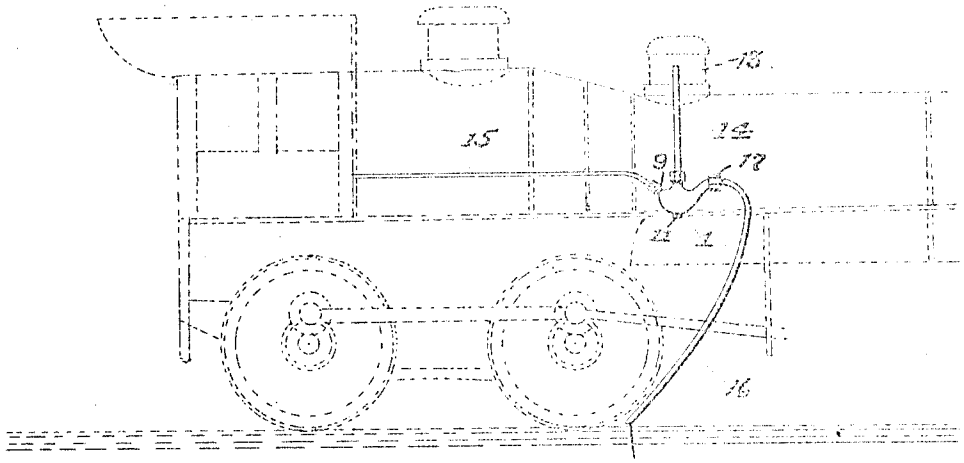


Fig. 1.

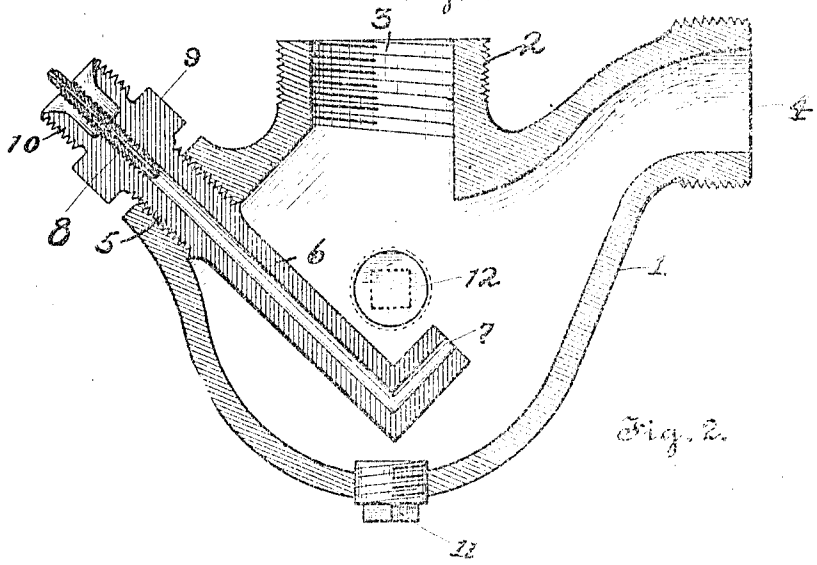


Fig. 2.

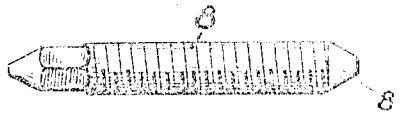


Fig. 3.

Witnesses:

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# UNITED STATES PATENT OFFICE.

HARRY RAYMOND WASEM, OF FORT DODGE, IOWA.

## SAND-DISTRIBUTER FOR LOCOMOTIVES.

954,233. Specification of Letters Patent. Patented Apr. 5, 1910.

Application filed September 2, 1909. Serial No. 515,865.

*To all whom it may concern:*

Be it known that I, HARRY RAYMOND WASEM, a citizen of the United States, residing at Fort Dodge, county of Webster, and State of Iowa, have invented certain new and useful Improvements in Sand-Distributers for Locomotives, of which the following is a specification.

My invention relates to an improved sand distributer for locomotives and has for its object the production of such a distributer which shall be simple of construction and efficient in operation.

My invention relates to the combination and arrangement of parts hereinafter described and claimed.

My invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of a distributer embodying my invention and indicating a portion of the locomotive in dotted lines, Fig. 2 is an enlarged vertical section through the distributer, and Fig. 3 is an enlarged elevation of the air nozzle employed therein.

The distributer comprises a substantially goose-shaped casing 1 provided at its upper central portion with an upwardly extending threaded sleeve 2 having a central opening 3, an upwardly inclined discharge spout 4 and a downwardly inclined threaded opening 5. An air inlet pipe 6 is mounted in opening 5 and provided with an upwardly inclined discharge end 7 in substantial alinement with the discharge opening 4. An air nozzle 8 is threaded or otherwise secured in the upper end of inlet pipe 6 which is also provided with a nut 9 turning the same and a screw threaded sleeve 10 for attachment to an air pipe. It will be observed that the air nozzle projects somewhat from the upper end of pipe 6 and an annular space is formed around its projecting end so that dirt or scale may collect in said space and not stop up said nozzle. By securing the air nozzle with screw threads as shown, the extent of its projection may be adjusted as desired. At its bottom and side respectively casing 1 is provided with threaded plugs 11 and 12 to permit access thereto for cleaning.

The casing 1 is designed to be attached at the side of the boiler of a locomotive as indicated in Fig. 1, the sand drum or box 13 being connected therewith through pipe 14 and sleeve 2 and a pipe 15 connected with pipe 6 leads to a compressed air supply in the cab of the locomotive and under the control of the engineer. A discharge pipe 16 is connected by means of a threaded union member 17 with the discharge opening 4 of the casing and has its discharge mouth 18 located adjacent the track in front of the drivers of the engine.

In use the sand is supplied to the track by admitting a blast of air to air pipe 6 which serves to blow or force the sand out through discharge pipe 16 and onto the track in front of the engine drivers.

It will be seen that the construction thus provided is very simple and efficient in operation.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of my invention. I, therefore, do not wish to be limited to the exact construction set forth, but wish to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. In a sand distributer, the combination of a substantially goose-shaped casing provided with a central top opening for the sand, an upwardly inclined discharge at one end, and a downwardly inclined opening for the reception of an air pipe at the other end; an inlet pipe threaded in said opening and having an upwardly inclined discharge end substantially in alinement with said discharge opening; and an air nozzle threaded in said air pipe near its upper end, substantially as described.

2. In a sand distributer, the combination of a substantially goose-shaped casing provided with a central top opening for the sand, an upwardly inclined discharge at one end and a downwardly inclined opening for the reception of an air pipe at the other end;

an air inlet pipe threaded in said opening and having an upwardly inclined discharge end substantially in alinement with said discharge opening; an air nozzle threaded in said air pipe near its upper end; and threaded plugs in the bottom and side of said casing, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY RAYMOND WASEM.

Witnesses:
P. O. NELSON,
C. W. ECHELBERGER.