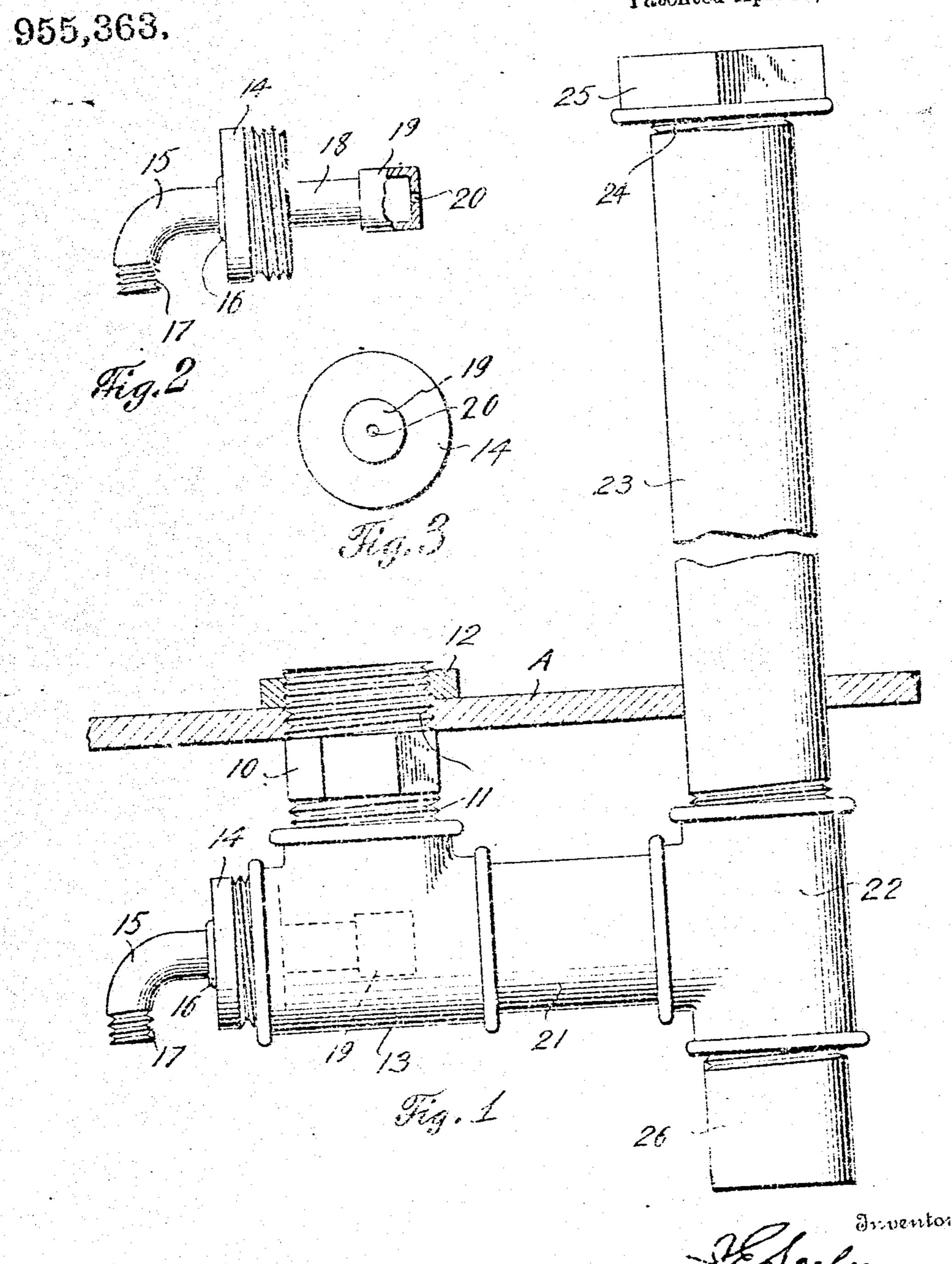
J. E. SCOBEE.
AIR SANDING DEVICE.
APPLICATION FILED JULY 24, 1909.

Patented Apr. 19, 1910.



Mitnesses

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UNITED STATES PATENT OFFICE.

JAMES E. SCOBEE, OF SALT LAKE CITY. UTAH, ASSIGNOR TO JOS. E. JOHNSON, OF SALT LAKE CITY, UTAH.

AIR SANDING DEVICE.

955,363.

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To all whom it may concern:

Be it known that I, JAMES E. Scober, a citizen of the United States, residing at 648 South Sixth street, east, Salt Lake City, 5 county of Salt Lake, State of Utah, have invented a new and useful Air Sanding Device, of which the following is a specification.

This invention has reference to sanding 10 devices for electric cars and other railroad vehicles wherein compressed air is used and is designed particularly to construct a device of this character, parts of which may be kept in stock at the shop, and readily re-15 place all worn elements of the apparatus.

The present invention also contemplates the construction of a sanding mechanism. wherein the same may be readily cleansed. and all particles of sand solidified by damp-20 ness may be broken without emptying the

box. With the above and other objects in view, this invention consists of the construction. combination and arrangement of parts all 25 as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevation of a device constructed in accordance with the present | per terminal thereof is adjacent to the top the connection between the air tank and the sand seat; Fig. 3 is a partial end elevation of Fig. 2.

Reference being had to the accompanying drawings, A indicates in general the sand box of a locomotive provided with two alined openings in the bottom thereof. Through one of said openings projects the nipple 10 40 provided with the threads 11 at each extremity thereof, the upper extremity of said nipple projecting through the bottom of the sand box A and being retained therein by the clamping nut 12 operating on the threads 45 11 formed on the upper terminal thereof. The lower extremity of the nipple 10 is connected to the T-joint 13 through the instrumentality of the threads 11 formed on the lower terminal thereof.

One extremity of the longitudinally disposed openings of the T-joint 13 has threaded therein the air connection. This air connection comprises the exteriorly threaded nut 14, which secures the connection to the 55 T-joint through the central opening of which

extends the pipe 15, said pipe being provided with an enlargement 16 adjacent the nut to more securely retain the same in place. The free terminal of the pipe is curved upwardly and provided with the 60 threads 17 which form a means whereby the same may be connected with an air hose. The opposite terminal 18 of the pipe 15 passes more than half way the passage of the T-joint 13 and is provided at its immedi- 65 ate extremity with the removable enlargement 19, said enlargement having formed therein the centrally disposed air hole 20. A nipple 21 is secured in the opposite extremity of the longitudinal passage of the 70 T-joint 13 and provides a connection between the latter, the outlet and the cleaning flue. The free terminal of the nipple 21 is connected with the T-joint 22, the longitudinal passage of said T-joint forming the con- 75 nection between the sand box and the outlet and cleaning flue.

The cleaning flue comprises a pipe or tube 23 connected in the upper terminal of the vertically extending T-joint 22, said pipe 80 projecting through the remaining opening in the bottom of the sand box and extending upwardly in such a manner that the up-30 invention, illustrating the connection thereof | of said box. The upper extremity of the 85 with a sand box; Fig. 2 is a side elevation of | pipe is provided with the threads 24 on which is threaded the cap 25, said cap forming a means whereby sand is kept from said clearing flue.

The opposite end of the longitudinal pas- 90 sage of the T-joint 22 has removably secured therein the outlet pipe 26, said pipe being of such a construction that a flexible hose may be secured thereto in order to conduct the sand from said pipe to the wheel with which 95 the sanding device is adapted to cooperate.

From the foregoing, it will readily be seen that the sand will drop from the sand box through the nipple 10 which comprises a supply pipe to the T-joint 13 and thence to 100 the nipple 21 which forms a sand seat. Air in passing through the pipe 15 and out the air hole 20 forces the sand from the T-joint 13 and the nipple 21 through the nipple 22 to the track through the instrumentality of the 105 outlet 26.

Should any sand become solidified within any of the various elements of the device, the only operation necessary is to remove the cap 25 and insert a rod or similar element 110 into the flue 23 which will readily loosen the sand.

It will further be noted that, should any part become worn or rusted, the same may 5 be readily replaced without removing the remaining parts or elements of the device.

to all sand boxes of any ordinary or usual construction, and is securely held in place by 10 the clamping aut 12 and retained from rotation by the cleaning flue 23.

Having thus fully described my invention,

what is claimed as new is:

i. In a device of the class described, the 15 combination with a sand box, of a supply sand box, means whereby said supply pipe may be clamped in position, a three-way connection secured to the free terminal of said 20 supply pipe, means for injecting air at one lopposite terminal of the passage of the Textremity of said three-way connection, and joint may be connected with an outlet, and

movably secured to an outlet.

25 combination with a sand box, of a supply the combination with a sand box, of a nipple sand box, means whereby said supply pipe box, a three-way joint connected to the outer nection secured to the free terminal of said air in one extremity of said three-way joint. 30 supply pipe, means for injecting air at one extremity of said three-way connection, extremity thereof, a similar three-way joint means whereby said connection may be re- secured to the free terminal of said last jecting through said sand box whereby the 35 elements of the mechanism may be cleaned.

3. In a device of the class described, the combination with a sand box, of a nipple! projecting through the bottom of said sand ! box provided with threads at each extremity 40 thereof, a clamping nut threaded on the box, a three-way joint connected to the outer upper terminal of said nipple and bearing terminal of said nipple, means for injecting terminal of said nipple, means whereby air extremity thereof, a similar three-way joint 45 may be injected at one terminal of said T- | secured to the free terminal of said last

the device.

in combination with a sand box, of a nipple and projecting substantially entirely through a T-joint connected with the free terminal of cap at its upper extremity. said nipple, a nut threaded in one extremity 55 of said T-joint, an air supply pipe passing ! through said nut and partially through the passage of said T-joint provided with a de-

tachable enlargement at the inner terminal thereof, means whereby the opposite extremity of said T-joint may be connected to an 60 outlet, and means for cleaning the elements

of the device.

5. In a device of the character set forth, The present invention is readily attached in combination with a sand box, of a nipple projecting through the base of said sand 65 box, a T-joint connected with the free terminal of said nipple, a nut threaded in one extremity of said T-joint, an air supply pipe passing through said nut and partially through the passage of said T-joint pro- 70 vided with a detachable enlargement at its free extremity, said enlargement having the pipe projecting through the bottom of said centrally disposed opening, and an enlargement on the exterior of the nut adapted to bear against the latter and retain the pipe in 75 its proper position, and means whereby the means whereby said connection may be re- means for cleaning the elements of the de-

80 2. In a device of the class described, the | 6. In a device of the character set forth, pipe projecting through the bottom of said projecting through the bottom of said sand may be clamped in position, a three-way con- terminal of said nipple, means for injecting 85 a nipple detachably secured in the opposite movably secured to an outlet, and means pro- named nipple, are outlet pipe detachably se- 90 cured in one extremity of the passage of the latter three-way joint, and cleaning means

in the opposite terminal of said passage. 7. In a device of the character set forth, the combination with a sand box, of a nipple 95 projecting through the bottom of said sand against the inner side of the bottom of said, air in one extremity of said three-way joint. sand box, a T-joint connected to the opposite; a nipple detachably secured in the opposite 100 joint, and means whereby the opposite termi- - named nipple, an outlet pipe detachably senal thereof may be connected with an out- cured in one extremity of the passage of the let, and means for cleaning the elements of | latter three-way joint, and a cleaning means 105 for the elements comprising a tube secured 4. In a device of the character set forth, in the opposite extremity of said passage projecting through the base of said sand box, said sand box provided with a removable

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Witnesses:

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