

No. 665,720.

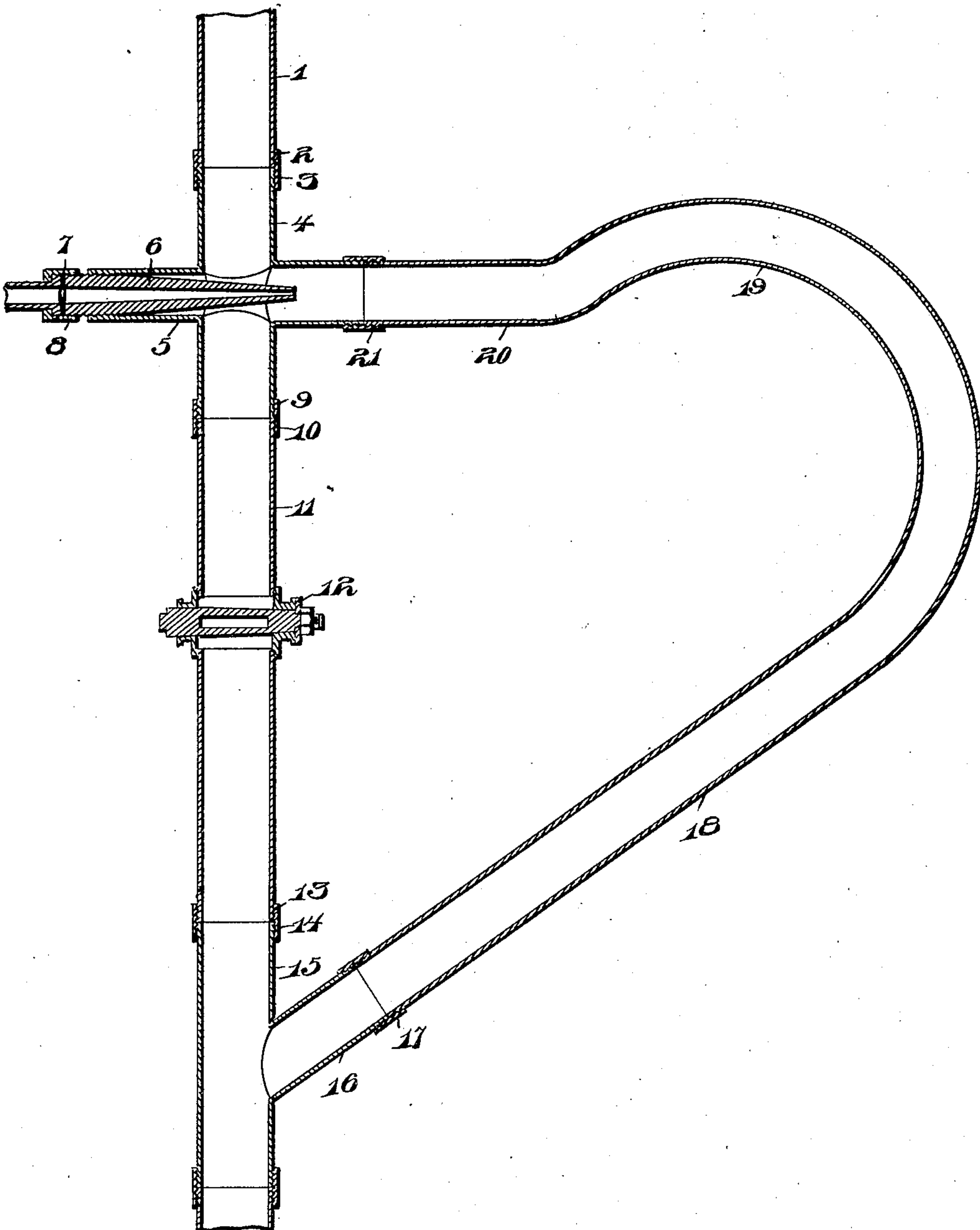
Patented Jan. 8, 1901.

T. L. BAILEY & R. W. HAMILTON.

AIR SANDING DEVICE.

(Application filed Sept. 27, 1900.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS L. BAILEY AND ROBERT W. HAMILTON, OF MAHONINGTOWN,
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AIR SANDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 665,720, dated January 8, 1901.

Application filed September 27, 1900. Serial No. 31,275. (No model.)

To all whom it may concern:

Be it known that we, THOMAS L. BAILEY and ROBERT W. HAMILTON, citizens of the United States of America, residing at Mahoningtown, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Air Sanding Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in air sanding devices, and relates more particularly to that class of pneumatic track-sanders employed in locomotives and operated by the engineer; and its particular object is to prevent any liability whatever of the blast nozzle and passage becoming filled and clogged with sand by reason of the movement and the jolting of the locomotive, so as to render the device inoperative.

The invention further provides to construct a device of this character wherein should the regular passage of the sand become clogged that the sand may be led through another passage directed to the track without interfering with the one that may be clogged.

The invention further aims to construct a device of the above-described character that will be extremely simple in construction, strong, durable, comparatively inexpensive, and highly efficient in its operation.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawing, which shows a vertical sectional view of our improved track-sander.

In the drawing the reference-numeral 1 indicates the feed-pipe leading to the sand-box, said pipe being provided at its lower end with screw-threads 2, adapted to receive a screw-threaded collar 3, coupling the feed-pipe to the fitting 4, said fitting being provided with a horizontal air-passage 5, in which is secured the nozzle 6, extending through the vertical sand-passage in the opposite side of the fitting. The said nozzle is provided with a gas-

ket 7 and screw-threaded collar 8 and communicating with an exhaust-pipe on the locomotive.

The reference-numeral 9 indicates interior screw-thread upon the lower end of the fitting to receive the interiorly-screw-threaded collar 10, to which is attached the feed-pipe 11, having arranged therein a valve 12. The lower end of said feed-pipe 11 is likewise screw-threaded at 13 to receive a screw-threaded collar 14, forming a coupling between said feed-pipe 11 and the Y-shaped coupling 15. A branch 16 of said Y-shaped coupling is provided with a screw-threaded collar 17, forming a coupling between the latter and the sand-blast pipe 18, the latter being formed of a semicircular portion 19 and horizontal portion 20, coupled at 21 to the fitting 4, said semicircular portion 19 extending upwardly above the horizontal portion 20, and thence downwardly at an approximate angle of thirty degrees.

The operation of our improved sanding device is as follows: The sand is permitted to enter the pipe 1, the valve 12 being closed. As the sand reaches the opening of the nozzle the same will be conveyed through the horizontal portion 20, thence to the semicircular portion 19, to the vertical portion of the Y-shaped coupling 15, and thence to the track.

Particular attention is called to the fact that the semicircular portion 19 of the sand-blast pipe is so constructed that the interior lower wall of said pipe will always be in direct line with the opening in the nozzle, thereby obtaining advantages which will be readily apparent, forcing the sand around into its regular course and effectually delivering the same upon the track. In case of an emergency of the sand-blast pipe being clogged the valve is so constructed as to permit the sand to pass downwardly to the rails through the discharge-pipe.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

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

In sanding device of the character described, the combination of a feed-pipe, a nozzle extending through said feed-pipe horizontally, a sand-blast pipe having a horizontal
5 portion, a semicircular portion extending above said horizontal portion, a downwardly-extending portion communicating therewith, a supply-pipe, a valve arranged in said supply-pipe, and a discharge-pipe, all parts be-

ing arranged and operating substantially as herein described and for the purpose set forth.

In testimony whereof we affix our signatures in the presence of two witnesses.

THOMAS L. BAILEY.

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Witnesses:

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