

(No Model.)

J. H. OSMUN.
SANDING DEVICE.

No. 540,403.

Patented June 4, 1895.

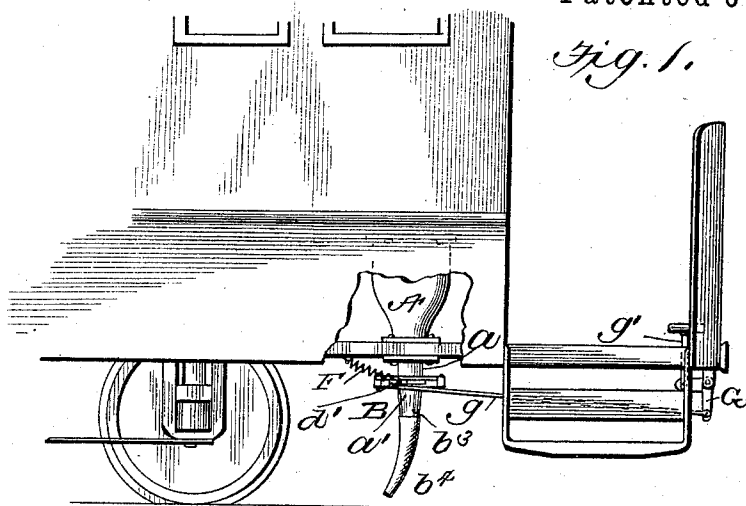


Fig. 2.

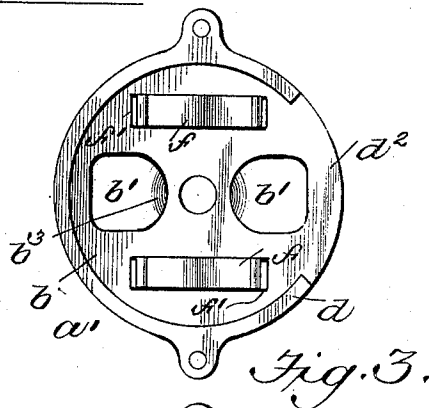
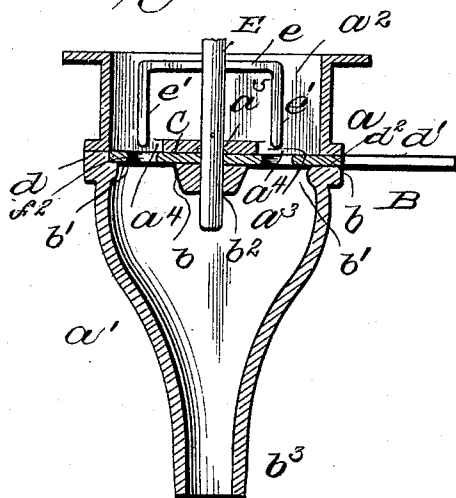


Fig. 3.

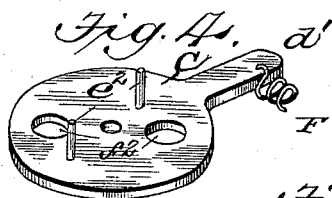


Fig. 4.

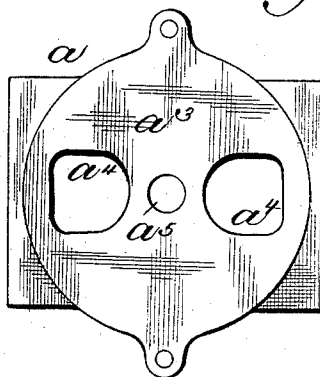
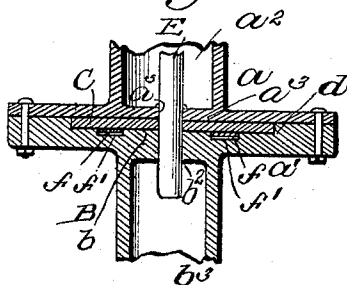


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

JACOB H. OSMUN, OF ALLENTOWN, PENNSYLVANIA.

SANDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 540,403, dated June 4, 1895.

Application filed February 12, 1895. Serial No. 538,115. (No model.)

To all whom it may concern:

Be it known that I, JACOB H. OSMUN, of Allentown, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Sanding Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention contemplates certain new and useful improvements in sand-boxes for railway cars.

The object of the invention is to provide a simple and inexpensive distributor for a sand-box capable of easy operation and in which sand will be prevented from interfering with the movement of the valve or cut-off, and in which the latter will be instantly returned to its normal position when it is desired to cut off the supply. These objects I accomplish by providing a two-part box each having opposite coincident holes or openings, those of the lower part extending into a single outlet to which a pipe or tube is designed to be connected. Between these two parts is a valve or cut-off normally held so that its two holes will be out of alignment with those of the two parts of the box. This valve is held tight up against the bottom of the upper part by springs resting on the top of the lower part. The upper part is attached to the sand-box proper. From this valve extends a shaft which carries suitable agitators, or the latter may be carried by the valve itself. Suitable mechanism designed to be operated by the foot of an operator is connected to this valve to cause the holes therein to coincide with those of the box and thus effect the distribution of the sand.

The invention comprises the novel features of construction and also the detail combination and arrangement of parts, substantially as hereinafter fully set forth and particularly pointed out in the claim.

In the accompanying drawings: Figure 1 is a view showing a portion of one end of a car with my improvements. Fig. 2 is a vertical sectional view of the distributor. Fig. 3 is a view showing the two parts of the distributor separated and the valve removed. Fig. 4 is a view of the latter with the agitator

secured thereto. Fig. 5 is a sectional view taken at right angles to Fig. 2.

Referring to the drawings, A designates the sand supply box which is preferably located beneath the car seat.

B is the distributor or outlet controller, which is secured to the under side of box A to receive the sand from the latter. It is composed of two parts or members a , a' , provided with flanges and bolted together. The upper part a has a chamber a^2 therein, and a bottom a^3 in which latter are two large holes or openings a^4 , a third small hole a^5 being formed in the center of said bottom. The lower part a' corresponds at its top b with the bottom a^3 , and is provided with two holes or openings b' similar to and coinciding with holes a^4 . A central hole b^2 corresponds with hole a^5 . Beneath this top the part a' is tapered and terminates in a tubular end b^3 into which the holes b' open, and to the lower end of this tubular portion is designed to be connected a tube or pipe b^4 which extends to within a short distance of the track-rail.

C is the valve or cut-off, which fits snug between the opposed faces of the bottom and top of the upper and lower parts and is held in place by a peripheral flange d of said lower part. An arm d' extends from this slide through a slot d^2 formed by cutting away a portion of flange d . Through the center of this valve or cut-off extends a shaft E which projects above and below and fits in the coincident holes a^5 and b^2 . Upon the upper portion of this shaft is secured a cross-piece e from the ends of which depend agitator arms e' , designed to stir the sand in chamber a^2 ; or, as shown in Fig. 4, the agitator arms e^2 may extend upward from valve C. This valve is held tight up against the bottom of the upper part a by two plate-springs f which fit in corresponding grooves f' on the top of the lower part. In this way a tight fit is obtained and sand is prevented from entering between the valve and the bottom a^3 . To the arm d' is connected one end of a coil-spring F, the other end thereof being attached to the car body. This spring serves to normally hold the holes f^2 in valve C out of alignment with the holes or openings a^4 and b' ; but to move the valve so as to cause all of said holes to coincide and thus allow the sand to be distributed any

suitable device or mechanism may be connected to the arm *d'* and extended to the car platform so as to be under the control of the operator. The form preferably used comprises a crank-lever *G*, a rod *g* and a foot-pedal *g'*, which extends upwardly through an opening in the platform. When this pedal is depressed the valve will be moved as against the action of its spring and the series of holes caused to coincide, and the distribution of the sand is stopped by removal of pressure from said pedal, the spring serving to return the valve to its normal position.

The advantages of my invention are apparent and it will be specially observed that a sand-box constructed as herein described is extremely simple and inexpensive and that the supply of the sand can be kept under the easy control of the operator and all danger of the sand interfering with the operation of the valve or cut-off is successfully avoided.

I claim as my invention—

In a sanding device, a box composed of upper and lower parts having corresponding circular meeting portions in both of which are central holes and two larger holes or openings, said upper part having a chamber therein, and said lower part being tapered and extended into tubular form, springs on the top of said lower part, a circular disk having a central shaft extended through said central holes of said parts, agitator arms carried by said shaft, an arm extending from said disk, a spring connected thereto, and means connected to said arm for imparting a rotary movement to said disk, substantially as set forth.

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

JACOB H. OSMUN.

Witnesses:

WILLIAM H. SOWDEN,
EDWARD RUHE.