

(No Model.)

F. E. TOBE.

SAND BOX AND MECHANISM FOR OPERATING SAME.

No. 565,578.

Patented Aug. 11, 1896.

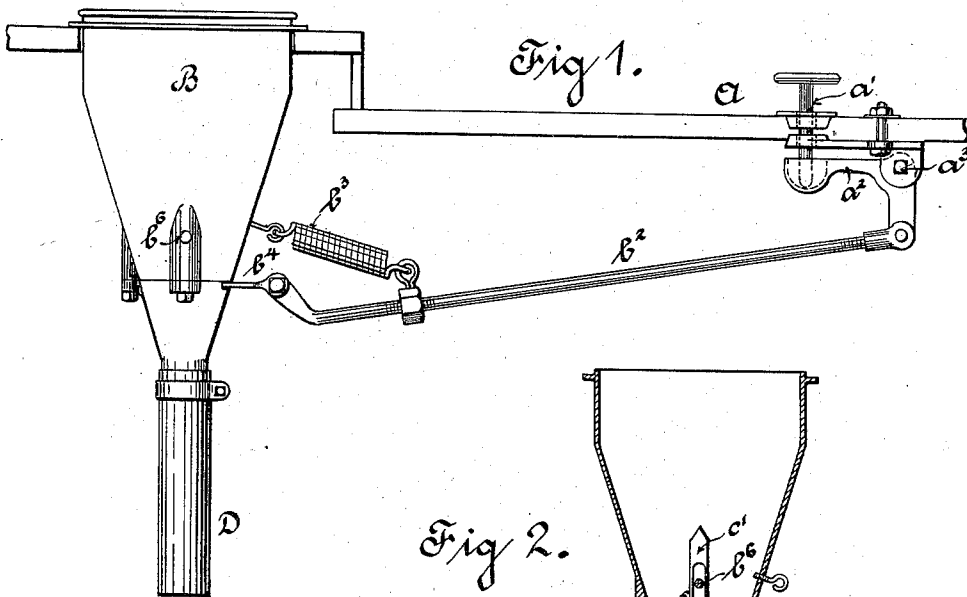
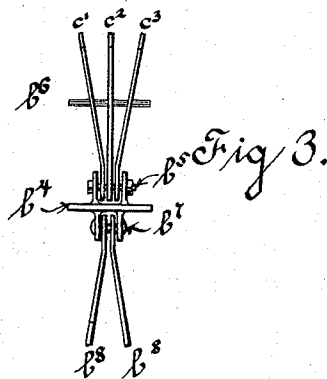
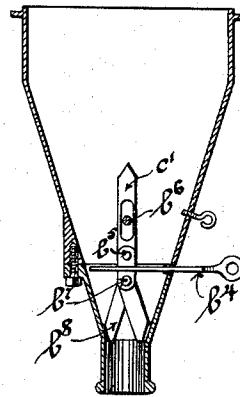


Fig 2.



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FREDERICK E. TOBE, OF BALTIMORE, MARYLAND, ASSIGNOR TO ALAN COLE, OF SAME PLACE.

SAND-BOX AND MECHANISM FOR OPERATING SAME.

SPECIFICATION forming part of Letters Patent No. 565,578, dated August 11, 1896.

Application filed December 28, 1895. Serial No. 573,643. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK E. TOBE, of the city of Baltimore, State of Maryland, have invented certain new Improvements in Sand-Boxes and Mechanisms for Operating the Same, of which the following is a full description.

Figure 1 is a side view of the box as applied to a street-car, showing the platform of the car, the sand-box, and the mechanism for operating the same. Fig. 2 is a sectional view of the sand-box with a movable gate to which are pivoted a series of fingers for loosening the sand in the box. Fig. 3 is a view of the fingers and gate.

In the drawings, A represents the platform of a street-car; B, the sand-box. Through the platform of the car projects the pin a' , having a button at the top and accessible to the foot of the motorman or driver. Beneath and below the platform is shown the bell-crank a^2 , fulcrumed at a^3 . The free horizontal end of this bell-crank lever is located beneath and in line with the pin a' . Pivoted to the other end of the bell-crank is the rod or bar b^2 , and attached to this rod or bar is the spring b^3 , so that when the crank-lever is depressed by the foot of the motorman this rod or bar is pulled, and the parts are restored to normal position by the action of the spring b^3 . Attached to the end of this bar is the gate b^4 , which enters into the sand-box and closes the same, so that when the parts are in normal position the sand remains in the box, held therein by the gate, and pivoted to this gate, as shown at b^5 , are the fingers $c' c^2 c^3$, which stand upright within the box, surrounded by the sand, and these fingers are

also pivoted to a bar or rod b^6 , extending across the box and properly secured to its side. There are also a set of lower fingers b^8 pivoted to the gate, as shown at b^7 . Below the box is a tubular extension (marked D in the drawings) made of rubber or cloth or other suitable material.

The operation of the device is as follows: When in normal position, the sand is held in the box by the gate. Should the gate be constructed alone and simply pulled out to allow the sand to run, difficulty has been found in that the sand sticks and clogs, and as a consequence the fingers are intended to stir the sand and facilitate its action, both above and below the gate, in running out of the box as required.

What I claim, and desire to secure by Letters Patent, is—

1. A sand-box attached to a moving vehicle, in combination with a gate for sustaining the sand in the box, provided with a set of fingers pivoted to the gate, and means for operating the same located upon the platform of the car and within reach of the foot of the driver.

2. In a moving vehicle, a sand-box provided with a gate for retaining the sand therein, a series of fingers pivoted to the gate and entering the sand and working on a fulcrum suitably secured to the box.

Signed at Baltimore city, in the State of Maryland, this 24th day of December, A. D. 1895.

FREDERICK E. TOBE.

Witnesses:

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