

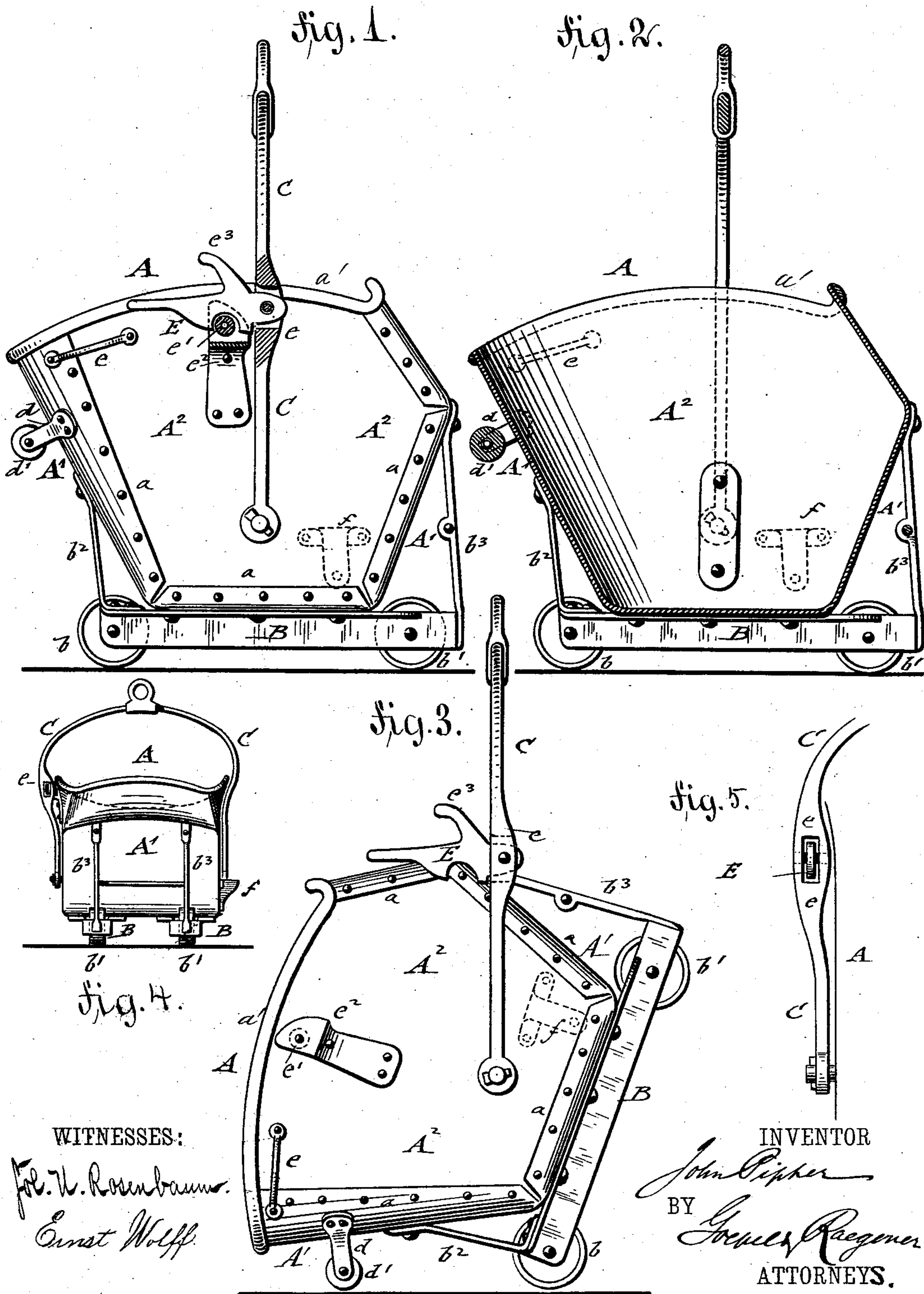
(No Model.)

J. PIPHER.

COAL TUB.

No. 324,484.

Patented Aug. 18, 1885.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN PIPHER, OF HOBOKEN, NEW JERSEY.

## COAL-TUB.

SPECIFICATION forming part of Letters Patent No. 324,484, dated August 18, 1885.

Application filed February 24, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN PIPHER, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Coal-Tubs, of which the following is a specification.

This invention has reference to improvements in coal-tubs of that class by which coal is conveyed to the holds of vessels; and the invention consists of a coal-tub the body of which is made of three parts—a bottom made in one piece with the front and back wall, and two side walls, which latter are riveted to overlapping portions of the bottom, front, and back piece. The back wall is made angular, so that its upper part is parallel, or nearly so, with the front wall. The coal-tub is supported on longitudinal bottom rails having front and hind walls, said rails being riveted to the bottom and attached by front straps and rear braces to the body. The bail is pivoted to the side walls of the body and provided with a gravity-latch, that is pivoted to an enlarged and slotted part of the bail and adapted to engage an anti-friction roller at one side of the tub. A fixed stop near the bottom of the tub stops the bail when the tub is dumped.

In the accompanying drawings, Figure 1 represents a side elevation of my improved coal-tub, partly in section. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a side view of the tub, shown in tilted position for dumping its contents. Fig. 4 is a rear view drawn on a smaller scale, and Fig. 5 is a detail front view of one side of the suspension-bail.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a coal-tub, which is made of sheet metal of suitable thickness, and composed of three parts—a main part, A', that forms the back, bottom, and front, and two side parts, A<sup>2</sup>, which latter are riveted to overlapping side flanges, a a, of the main part A'. The rear wall of the tub A is made angular, the upper part being parallel, or nearly so, to the front. This facilitates the charging of the tub and the dumping, and increases the capacity of the same. The upper edge of the tub is re-enforced by a rim, a', that is riveted or otherwise fastened to the body of the tub. The tub A is supported on longitud-

inal bottom rails, B B, each of which is provided with a front and hind wheel, b b', the rails B B being flanged and riveted to the bottom of the tub, and attached by front straps, b<sup>2</sup>, to the front wall of the tub and by hind braces, b<sup>3</sup>, to the rear wall of the same. The wheeled bottom rails, B B, facilitate the moving of the tub on the ground. Lugs d at the front part of the tub support a fifth or smaller roller, d', by means of which the tub can be readily moved for dumping along the ground in connection with the front wheels, as shown in Fig. 3. The tub is provided at both sides with a handle, C, for conveniently manipulating the same and moving the same forward and dumping it. The tub A is suspended by a bail, C, that is pivoted to the side walls, A<sup>2</sup>, the bail being enlarged at one side, and slotted and provided with a gravity-latch, E, that is pivoted to the slot of the enlarged part of the bail. The enlarged part e of the bail protects the latch and prevents it from coming in contact with projecting bodies, so as to be permanently released. The latch E engages an anti-friction roller, e', which is supported by a lug, e<sup>2</sup>, that is riveted to one of the side walls A<sup>2</sup> of the tub. The gravity-latch E is provided with an upwardly-extending arm, e<sup>3</sup>, to which a rope may be attached, so that the latch can be readily released from the anti-friction roller e' for dumping the tub. When the tub is dumped, it is prevented from tilting by a stop, f, attached to one side, as shown in Fig. 5 and in dotted lines in Figs. 1, 2, and 3.

The advantages of my improved coal-tub are, strength and simplicity of construction, an increased capacity, owing to the angular shape of the back, the ease of moving the same on the ground by the four wheels of the bottom rails and the front roller, and the facility of dumping the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A coal-tub having bottom rails provided with front and hind wheels and front straps and rear braces for connecting the rails to the body of the tub, substantially as set forth.

2. The combination of a coal-tub having a front roller, bottom rails having front and hind wheels, and front straps and rear braces connecting the bottom rails with the body of the tub, substantially as described.

3. The combination of a coal-tub, a bail piv-  
oted to the side walls of the same and pro-  
vided with an enlarged slotted part, a gravity-  
latch pivoted to said slotted part, and a fixed  
5 lug attached to the side wall of the tub and  
having an anti-friction roller, substantially as  
set forth.

4. The combination of a coal-tub, a bail  
pivoted to the side walls of the same and hav-  
10 ing an enlarged slotted part at one side there-  
of, a gravity-latch pivoted to said slotted part,

a fixed lug attached to the side wall and pro-  
vided with an anti-friction roller, and a fixed  
stop attached to the rear part of the tub, sub-  
stantially as set forth.

In testimony that I claim the foregoing as  
my invention I have signed my name in pres-  
ence of two subscribing witnesses.

JOHN PIPHER.

Witnesses:

PAUL GOEPEL,  
SIDNEY MANN.

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