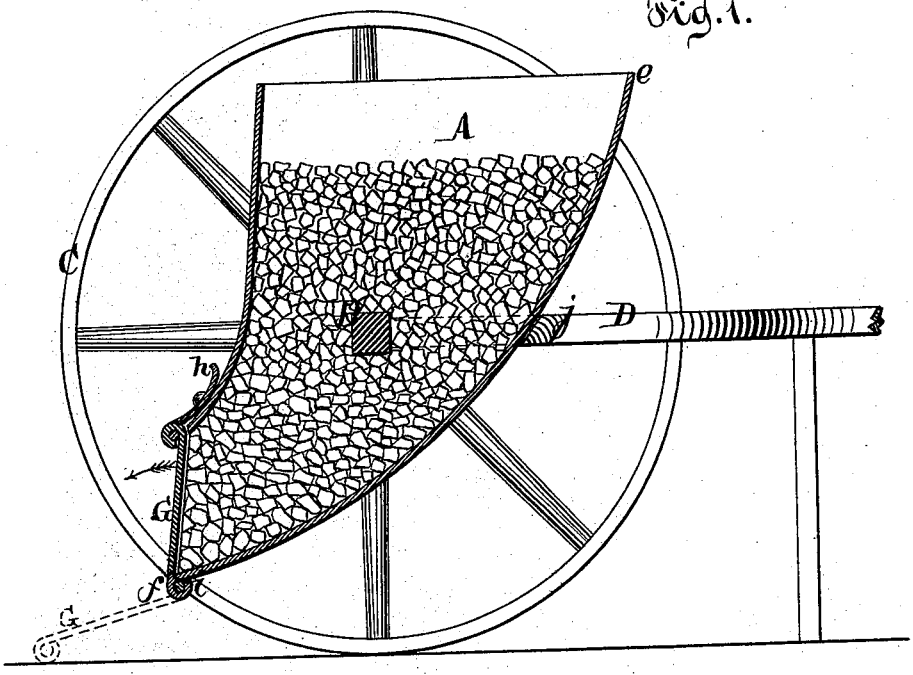
F. SCHOLES.
Coal-Cart.

No. 210,153. Patented Nov. 19, 1878.

Fig. 1.



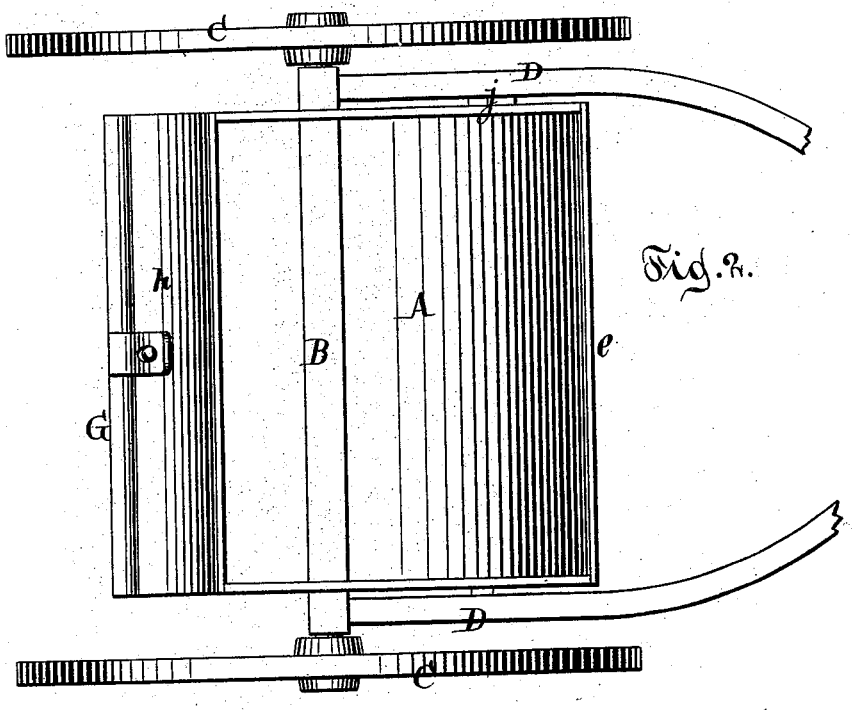


Fig. 2.

Witnesses.
Chas. Wahlers.
Hugo Bruggemann

Inventor.
Frederick Scholes
by his attys.
Van Santvoord & Hauff

UNITED STATES PATENT OFFICE.

FREDERICK SCHOLES, OF BROOKLYN, E. D., NEW YORK.

IMPROVEMENT IN COAL-CARTS.

Specification forming part of Letters Patent No. **210,153**, dated November 19, 1878; application filed June 5, 1878.

To all whom it may concern:

Be it known that I, FREDERICK SCHOLES, of Brooklyn, E. D., in the county of Kings and State of New York, have invented a new and useful Improvement in Coal-Carts, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal vertical section of a cart embracing my invention. Fig. 2 is a plan or top view thereof.

Similar letters indicate corresponding parts.

My invention relates to carts for transporting coal, ashes, sand, and other similar substances; and its chief aim is to produce a cart the body of which can be unloaded solely by the inherent gravity of its contents, and without dumping the body. To attain this object cart-bodies have been made stationary, and with an inclined bottom, but with the usual vertical front side. This construction, however, does not allow of inclining the bottom of the body to such a degree that the entire load is discharged, it being necessary to shovel out a portion of the contents, and hence the desired object was not thereby attained in a satisfactory manner.

My invention consists in a cart having the axle of its wheels passing through a stationary body or box intermediate of its top and bottom, and to which it is rigidly attached, the discharge end of said body being entirely below the axle and the top above said axle, said body or box being inclined from its upper front edge to its lower rear edge below the axle, the discharge mouth of said body being provided with a tail-gate, as hereinafter described, whereby the body is adapted to unload its contents by gravity and without dumping.

In the drawing, the letter A designates the body of my cart, hung on an axle, B, which is mounted on wheels C C at its opposite ends, and to which are connected the shafts D.

The cart-body A is inclined from the upper front edge, *e*, to the lower rear edge, *f*, thereof, and I prefer to make the same of concavo-convex form, as shown in Fig. 1.

The letter G designates the tail-board of the cart-body. In the example shown this board embraces or covers only a portion of the rear side of the body A, and immediately above the upper edge thereof the rear side of the body is, by preference, curved in a forward direction, as at *h*; but, if seen fit, the tail-board G may be arranged to extend from the top to the bottom of the cart-body, as in the ordinary dumping coal-carts. I connect the tail-board H to the lower rear edge, *f*, of the cart-body by hinge-joints *i* of any suitable construction, and also combine therewith a suitable catch for fastening the same at its upper or free edge.

The cart-body is hung on the axle or axle-tree B at an intermediate point between the top and bottom thereof, as shown in Fig. 1; and in order to steady the body on the axle, it is firmly secured thereto, while, in order to lessen the strain on the axle, the body is also secured to the cross-bar *j* of the cart-shafts.

It will be seen that the surface of the cart-body A, on which the coal or other substance rests, has a large angle, and hence, when the contents thereof are permitted to discharge, not a particle remains in the body. Another effect of the said angle is to throw the weight of the load to the rear of the cart-body.

To permit of discharging the contents of the cart-body A, the tail-board G is released and swung down, so that its free edge rests on the ground, as shown in dotted outline in Fig. 1, in which position it serves to conduct the coal or other matter to the sidewalk or other place where the same is to be deposited, and by this arrangement I am enabled to deposit a load of coal or other matter on a sidewalk without regard to the size of the cart-wheels.

By hanging the cart-body A in the manner shown, the lower or discharge end thereof is brought near to the ground, and the least fall is given to the discharging load, while the body is also balanced to a great extent, and the draft is made easy.

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

A cart having the axle B of the wheels passing through the stationary body, intermediate of its top and bottom and to which it is rigidly attached, the discharge end of the body being entirely below and the open top

above the axle, and said body being inclined from its upper front edge to its lower rear edge below the axle, the discharge-mouth of the body being provided with a tail-gate, all as shown and described, whereby the body is adapted to unload the contents by gravity and without dumping, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 29th day of May, 1878.

FRDK. SCHOLES. [L. S.]

Witnesses:
W. HAUFF,
CHAS. WAHLERS.