# B. T. SNYDER.

## ELEVATING AND CARRYING APPARATUS.

No. 181,219. Patented Aug. 15, 1876.

Fig. 1.

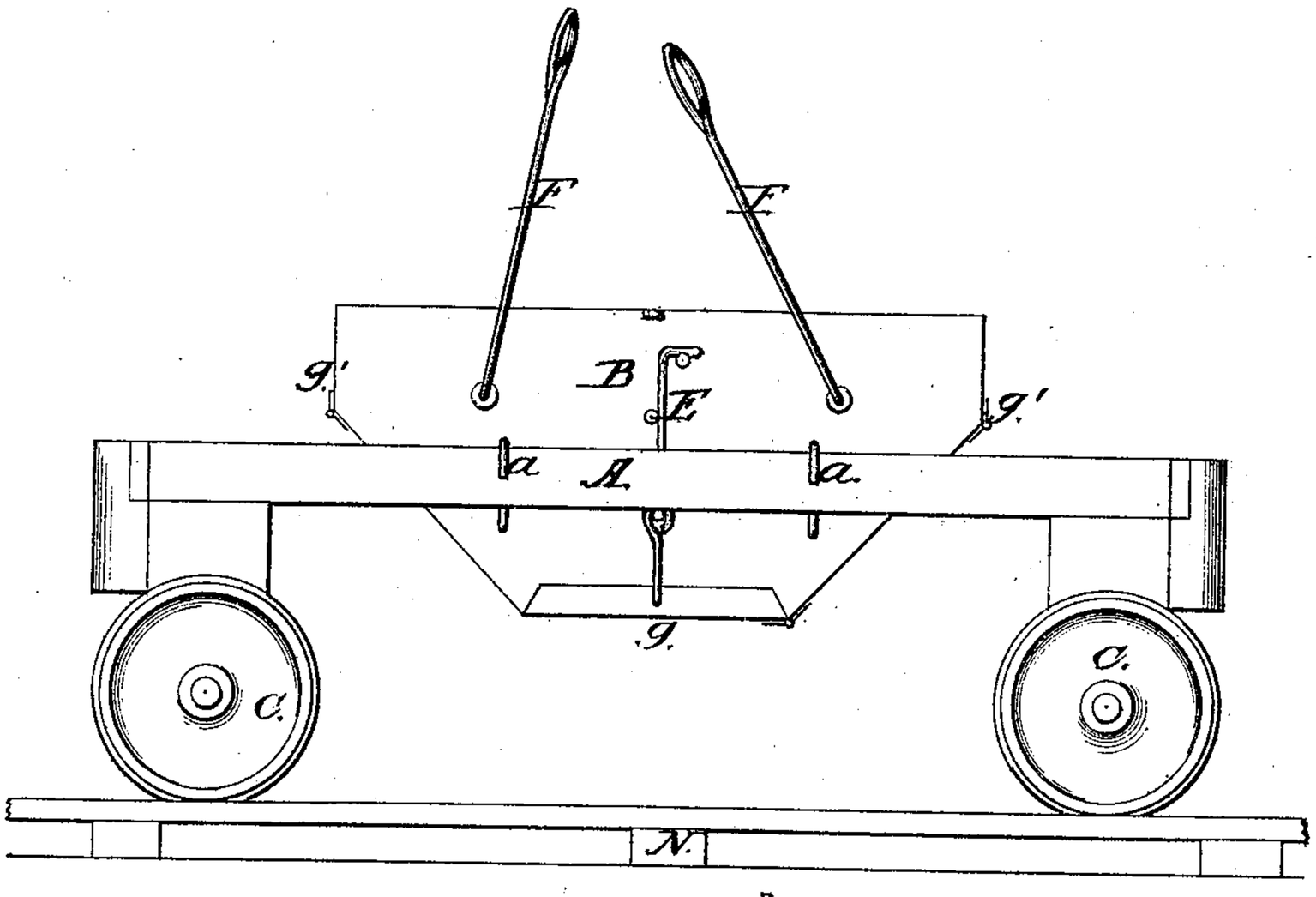



Fig. 2.

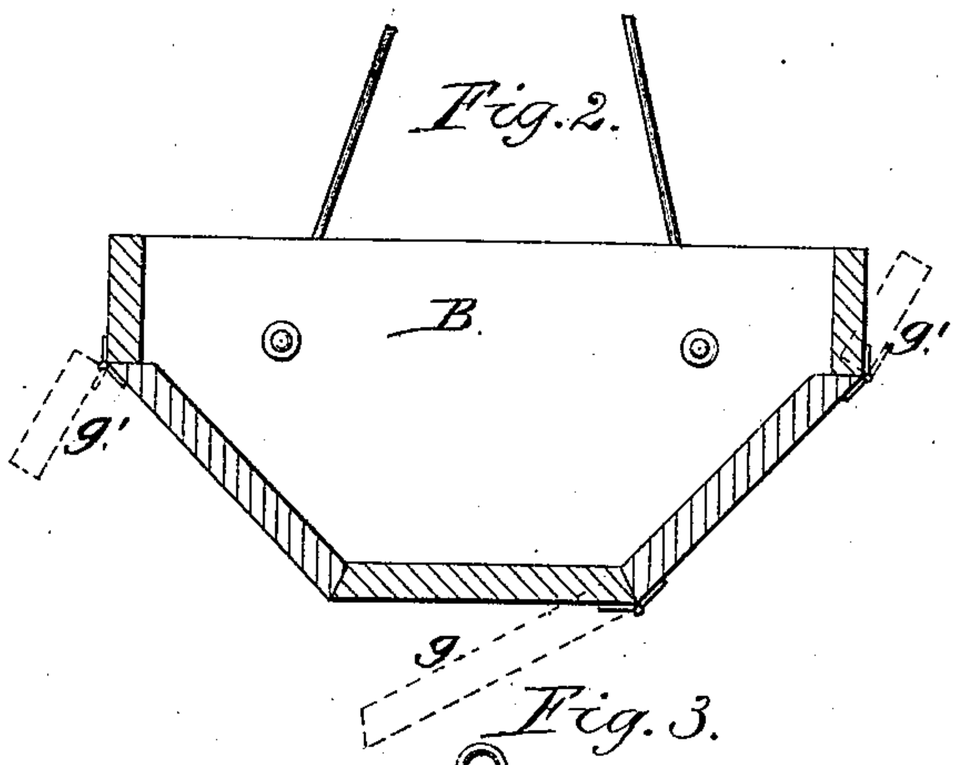
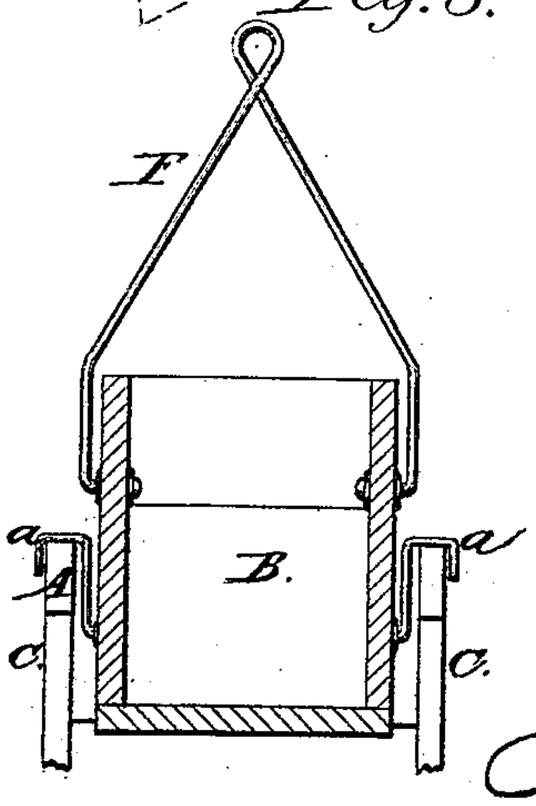



Fig. 3.




Witnesses
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# UNITED STATES PATENT OFFICE.

BLADEN T. SNYDER, OF GEORGETOWN, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN ELEVATING AND CARRYING APPARATUS.

Specification forming part of Letters Patent No. **181,219**, dated August 15, 1876; application filed August 2, 1876.

*To all whom it may concern:*

Be it known that I, BLADEN TASKER SNYDER, of Georgetown, in the District of Columbia, have invented certain new and useful Improvements in Elevating and Carrying Apparatus, of which the following is a specification:

This invention relates to an improved car for mining and other purposes, its object being to provide for the elevation of the coal and transportation from place to place in bulk without the necessity of frequently loading and unloading the coal and transferring it to separate buckets or cars, as is ordinarily the case; and to this end it consists in so constructing the body of the car that it may be attached to the elevating-rope in the shaft of a mine, lifted off the truck, and transferred to another similar truck, the said body thus serving as a bucket for elevating the coal and transferring it from point to point.

In the drawing, Figure 1 represents a side elevation of my improved car; Fig. 2, a longitudinal vertical section of the body or bucket, and Fig. 3 a transverse vertical section of the body or bucket.

The letter A represents the car-truck, consisting of a rectangular frame, mounted on the ordinary car-wheels C. B represents the body of the car, consisting of a box or receptacle, having the sides which compose its bottom inclined inward toward a central discharge-aperture. To the bottom of said body is secured a hinged door, *g*, provided with a suitable fastening device, E, for holding it in place to close the discharge-aperture. To the upper part of the body or bucket B are secured two bails, F, one near each end, or at any other convenient portion of the car, provided with loops at their upper ends, by means of which they can be hooked on the elevating chain or rope. The letter *g'* represents a hinged door at each end of the car-body, which can be thrown down to facilitate the loading of the car in contracted shafts. The letters *a a a a* represent four hooks, two secured on each side of the car-body or bucket, near opposite ends of the same, which are adapted to hook over the sides of the rectangular frame of the truck, and secure the body or bucket to the frame.

In operation, my improved car is used as follows: The workmen in the mine, after loading the car, convey it over the rails to the vertical shaft, as usual. Here, instead of unloading into the elevating-buckets, as is ordinarily practiced, the body or bucket B is attached to the elevating-rope by bringing the ends of the bails together and securing over a suitable hook at the end of the rope. The bucket or car-body, with its contents, is then elevated, and when it reaches the top of the shaft it is placed upon a truck constructed precisely like the first-mentioned truck, and conveyed to the desired place; or the car can be run over a chute, and, by dropping the hinged door from the discharge-aperture, the coal can be discharged into a canal-boat or car.

By my invention it will be perceived that the coal or other material is handled in bulk, thus saving much of the time and labor attendant upon the ordinary method of handling such articles, where they have to be loaded and unloaded and transferred from bucket to bucket.

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

1. In an elevating and carrying apparatus, the detachable body, adapted to serve as an elevating-bucket, for the purpose of handling the coal or other material in bulk, substantially as described.

2. In combination with the car-truck, the body B, provided with two bails for attaching it to the elevating-rope, and with hooks, by which it can be supported within the frame of the truck, substantially as described.

3. In combination with the car-body or bucket, the doors at each end, for facilitating the loading of the car in contracted shafts, and the door at the bottom of the car-body for unloading the same, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

B. T. SNYDER.

Witnesses:
J. W. HAMILTON JOHNSON,
JOS. L. COOMBS.