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A. C. ELPHINSTONE.

COAL CHUTE SUPPORT FOR VEHICLES.

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Fig. 1.

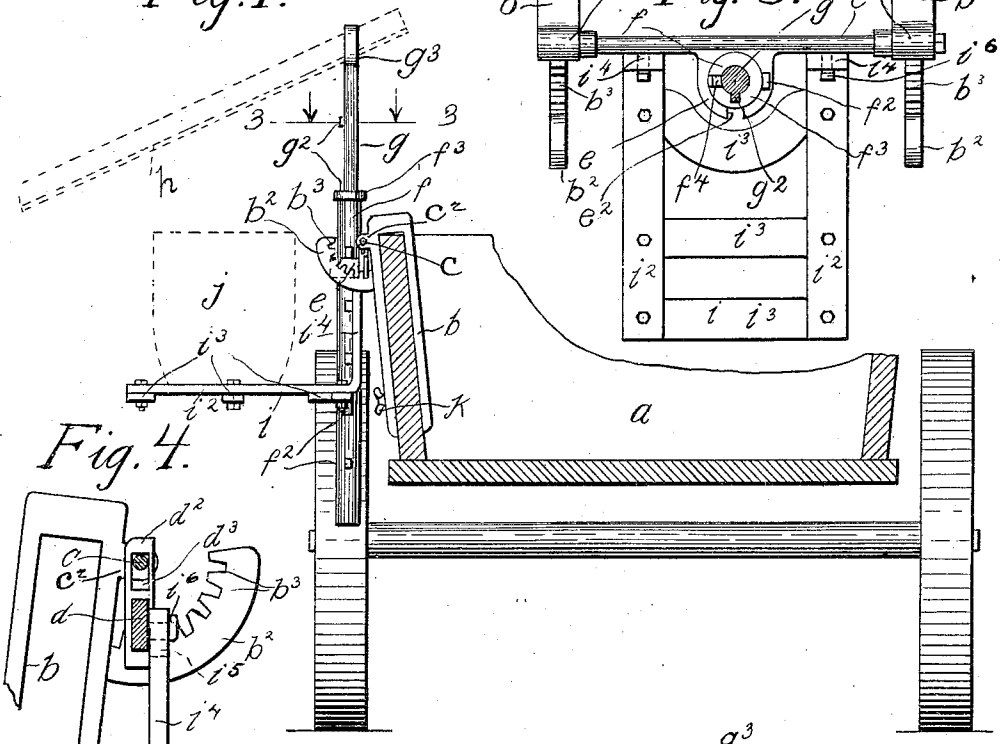
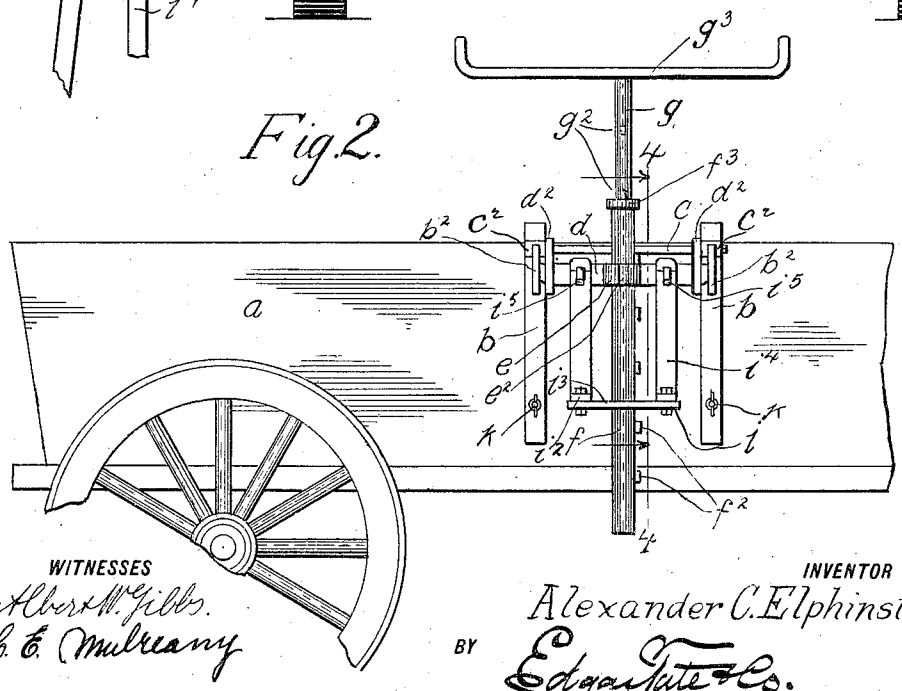


Fig. 3.

Fig. 4.

Fig. 2.



WITNESSES

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COAL-CHUTE SUPPORT FOR VEHICLES.

No. 862,322. Specification of Letters Patent. Patented Aug. 6, 1907.

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To all whom it may concern:

Be it known that I, ALEXANDER C. ELPHINSTONE, a citizen of the United States, and residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Coal-Chute Supports for Vehicles, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to coal chute supports for use in connection with coal carts, wagons and other vehicles used for retailing or distributing coal, and the object thereof is to provide an improved device of this class which may be conveniently connected with the body or bed of the vehicle so as to support one end of a chute into which the coal is shoveled, and by means of which the coal is conveyed from the vehicle to the coal cellar window or hole; a further object being to provide a chute support of the class specified whereby one end of the chute may be elevated or lowered when desired and the other end turned at any desired angle to the vehicle and by means of which the chute support proper will always be held in a vertical position; a further object being to provide a coal chute support of the class specified which is also provided with a basket holder into which the coal may be shoveled, and by means of which the coal may be carried from the truck or wagon to any desired point; and with these and other objects in view the invention consists in a device of the class specified constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is an end view of a truck or wagon, the body or bed being shown in section and provided with my improved coal chute support; Fig. 2 a side view thereof with part of the construction of the support broken away; Fig. 3 a section of the support on the line 3—3 of Fig. 1; and, Fig. 4 a sectional detail of the support taken on the line 4—4 of Fig. 2.

In Figs. 1 and 2 of the accompanying drawing, I have shown a wagon or truck provided with a bed or body *a*, and in the practice of my invention, I provide a coal chute support which may be connected with one side of the bed or body or with the tail board thereof. My improved coal chute support comprises two yoke-shaped side members *b* connected by a transverse rod *c* which is passed through outwardly directed ears c^2 with which the side members *b* are provided. The top portions of the side members *b* are provided below the rod *c* with outwardly directed and upwardly curved arms b^2 provided in their upper surfaces with equally spaced notches or recesses b^3, and the rod *c* is provided with a hanger comprising a transverse bar *d* having end arms d^2 provided with longitudinal slots d^3 through which the rod *c* passes and by means of which said hanger may be freely turned on said rod and moved vertically thereon. The end portions of the bar *d* are adapted to fit in the notches or recesses b^3 of the arms b^2, and by means of this construction the said hanger composed of the bar *d* and arms d^2 may be held in a vertical position regardless of the slant or inclination of the sides of the body or bed of the vehicle, or said hanger may be held at an inclination to the side of the bed or body of the vehicle if desired.

The bar *d* of the hanger is provided centrally with an outwardly directed keeper *e* having in its outer side a vertical slot or opening e^2 and in which is placed a vertically movable tube *f* provided at intervals with lugs or projections f^2, which lugs or projections are adapted to pass through the slot or opening e^2 in the keeper *e*, and by means of this construction the tube *f* may be raised and lowered and adjusted vertically in the keeper *e* to any desired height. The lugs or projections f^2 are arranged in a vertical line on the tube *f* and all that is necessary, in moving said tube vertically in said keeper, is to turn the tube so that the lugs or projections will pass through the slot or opening e^2 in the keeper *e* and by turning said tube one of said lugs or projections will rest on the top of said keeper and hold the tube at any desired height.

Placed in the vertically adjustable tube *f* is a vertically movable and adjustable rod *g* provided with lugs or projections g^2 arranged longitudinally on one side thereof. The tube *f* is larger in diameter than the rod *g* and said tube is provided at the top thereof with a cap f^3 provided at one side with a radial recess f^4 through which the lugs or projections g^2 on the rod *g* are adapted to pass, and by means of this construction the rod *g* may be vertically adjusted in the tube *f* in a manner similar to that by which said tube is adjusted in the keeper *e*, and said rod *g* is provided at its upper end with a cross head g^3 which is designed to support one end of a coal chute *h* as indicated in dotted lines in Fig. 1. I also provide my improved coal chute support with a basket holder *i* designed to support a basket or other receptacle *j* as indicated in dotted lines in Fig. 1, and when it is not practical to use the chute *h*, the basket holder *i* may be employed and the coal may be shoveled into said basket or receptacle and carried to any desired point. The basket holder *i* is composed of a base member which, in the form of construction shown, comprises parallel side members i^2 connected by cross bars i^3 one of which is curved as shown in Fig. 3 to adapt the base of the basket holder to the tube *f*, and said parallel side members i^2 are provided with upwardly directed arms i^4 having longitudinal slots i^5 in the upper end by means of which the basket holder *i* may be connected with or suspended from the

hooks i^6 with which the cross bar d of the hanger which is suspended from the rod c is provided.

My invention is not limited to any particular form of the basket holder i and said basket holder may be of any preferred construction, all that is necessary in this connection, being to provide a holder of this class which may be detachably suspended from the hanger d and which will serve to support a basket or other receptacle in the manner described.

By means of my improvement I provide, as will be seen, a coal chute support which may be connected with or detached from the bed or body of a wagon, and although I have shown the same connected with the side of said bed or body, it will be apparent that it may be connected with the tail board or with any other part thereof, the construction of the device being such that the coal chute may be conveniently supported for the purpose specified and adjusted to any desired height or position, said support being also provided with a suitable detachable holder for a basket or other receptacle which may be employed when the use of the chute is not desired. The outer arms of the yoke-shaped side members b of the coal chute support are also provided with thumb bolts or similar devices k by means of which the device may be securely clamped to the bed or body of the vehicle, and it will be understood that said parts b may be of any transverse dimensions so as to accommodate the device to any thickness or construction of the sides or tail board of the bed or body of the vehicle.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A device of the class described adapted to be connected with the side of the bed or body of a vehicle and provided with a hanger rotatably supported and movable toward and from said bed or body and adapted to be adjusted into different positions, said hanger being provided with a vertically movable and adjustable tube, and said tube being provided with a vertically movable and adjustable rod provided at its upper end with a cross head adapted to support a coal chute.

2. A device of the class described adapted to be connected with the side of the bed or body of a vehicle and provided with a hanger rotatably supported and movable toward and from said bed or body and adapted to be adjusted into different positions, said hanger being provided with a vertically movable and adjustable tube, and said tube being provided with a vertically movable and adjustable rod provided at its upper end with a cross head adapted to support a coal chute, said tube and said rod being also rotatable.

3. A device of the class described adapted to be connected with the side of the bed or body of a vehicle and provided with a hanger rotatably supported and movable toward and from said bed or body and adapted to be adjusted into different positions, said hanger being provided with a vertically movable and adjustable tube, and said tube being provided with a vertically movable and adjustable rod provided at its upper end with a cross head adapted to support a coal chute, said tube and said rod being also rotatable, and said hanger being provided with means for suspending a detachable basket holder.

4. A coal chute support adapted to be connected with the bed or body of a vehicle and comprising two yoke-shaped side members provided with a hanger rotatably mounted between said side members and adapted to be adjusted into different positions, a rotatable tube mounted in said hanger and adapted to be adjusted into different positions, and a rotatable rod mounted in said tube and adapted to be adjusted into different positions and provided at its upper end with a cross head adapted to support a coal chute.

5. A coal chute support adapted to be connected with the bed or body of a vehicle and comprising two yoke-shaped side members provided with a hanger rotatably mounted between said side members and adapted to be adjusted into different positions, a rotatable tube mounted in said hanger and adapted to be adjusted into different positions, and a rotatable rod mounted in said tube and adapted to be adjusted into different positions and provided at its upper end with a cross head adapted to support a coal chute, said hanger being also provided with means for supporting a detachable basket holder.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 5th day of December 1906.

ALEXANDER C. ELPHINSTONE.

Witnesses:

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