A. B. & T. C. DAVIS.

Apparatus for Delivering Coal.

No. 215,510. Patented May 20, 1879.

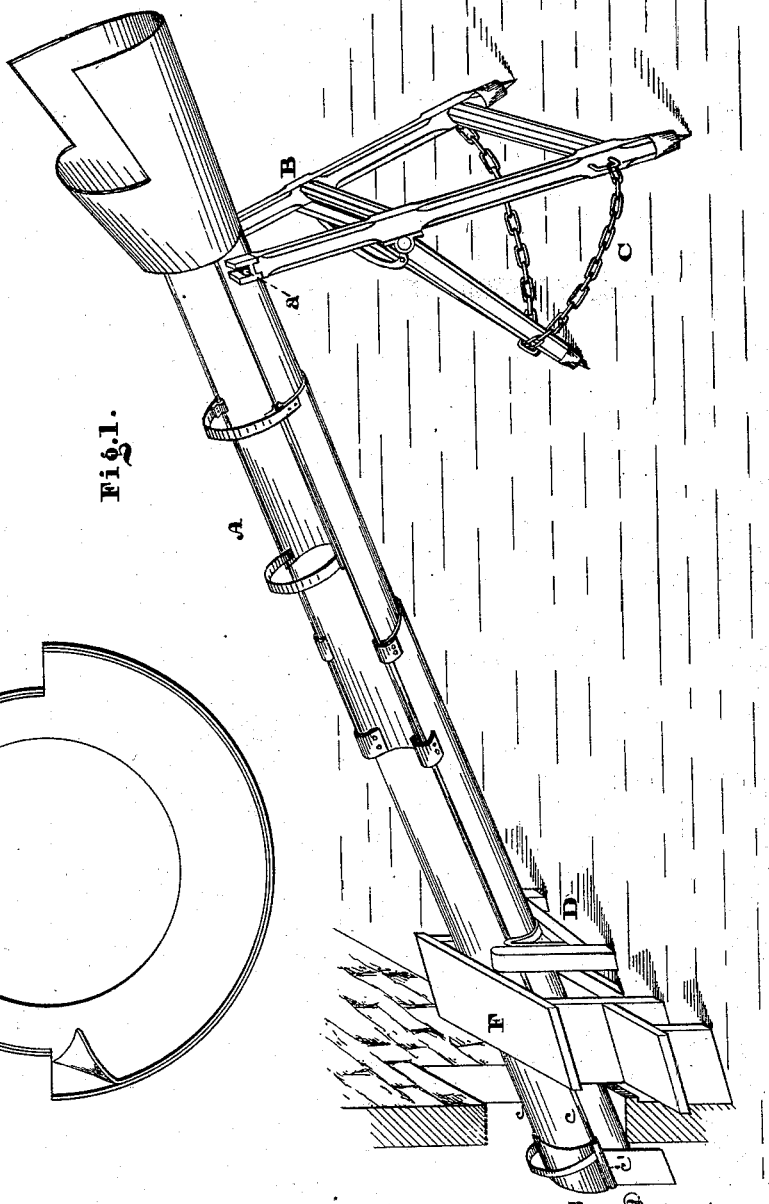

Fig. 1.

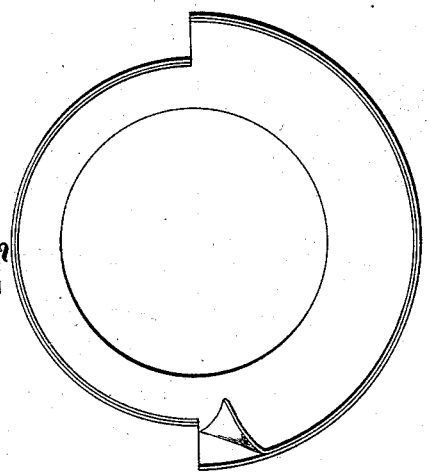

Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

AUGUSTUS B. DAVIS AND THOMAS C. DAVIS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS OF ONE-THIRD THEIR RIGHT TO WILLIAM B. KINSEY, OF SAME PLACE.

IMPROVEMENT IN APPARATUS FOR DELIVERING COAL.

Specification forming part of Letters Patent No. **215,510**, dated May 20, 1879; application filed August 30, 1878.

To all whom it may concern:

Be it known that we, AUGUSTUS B. DAVIS and THOMAS C. DAVIS, both of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Delivering Coal, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of the apparatus embodying our invention. Fig. 2 is an end view thereof.

Similar letters of reference indicate corresponding parts in the two figures.

Our invention relates to apparatus for delivering coal or other substances into cellars, vaults, and other receptacles direct from wagons, carts, &c.

The invention consists of a chute provided with journals, mounted loosely on an adjustable support, placed at such distance from the vehicle that a space is left between the chute and vehicle, whereby the sidewalk is sufficiently free for the passage of pedestrians, said support being formed of hinged legs, controlled by a strap or chain, whereby the adjustment is accomplished simply by moving one of the legs.

It also consists in supporting the outer or lower end of the chute on a shifting stand, whereby a basket or other carrier may be placed under said end to receive the coal as it rolls from the chute.

It also consists of a flap or hood for checking the coal as it leaves the chute, and directing it to the bin or other receptacle, said flap or hood being connected to the chute by joints at the side, so that coal-dust is prevented from entering said joints.

The invention further consists in forming the chute of, or lining it with, rawhide or other tough material that will deaden the noise occasioned by the coal striking the hopper and rolling down the chute.

Referring to the drawings, A represents a chute, which is made of expansible sections, fitted telescopically or otherwise. Projecting from what may be termed the "fixed section" are trunnions or journals *a*, which are adapted to be fitted on the upper end of a stand, B, so as to support the chute independent of the vehicle. This stand is of the order of a tripod, the legs whereof are so pivoted that by separating them the stand is lowered, and by closing or gathering said legs the stand is raised, whereby the chute may be lowered or raised, and its angle accordingly adjusted.

To the legs there is connected a chain or strap, C, which is so attached to and passed around the legs that the legs may be secured in their adjusted positions.

In order to hold the chain or strap, a pin or hook may be connected to one of the legs, and the chain or strap is engaged therewith, so as to be rendered immovable, for the purpose stated.

The chute A is formed of rawhide, or of metal or wood lined with such material, whereby, when the coal strikes the hopper and rolls down the body of the chute the objectionable noise otherwise occasioned is prevented.

It will be seen that the stand may be placed on the sidewalk at such distance from the vehicle that a space is left between the chute and vehicle for the free passage of pedestrians.

Two vehicles may be unloaded simultaneously by backing them, tail to tail, adjacent to the line of the chute—an advantage readily appreciable by those engaged in the trade.

It will also be seen that the sidewalk will not be blocked, the coal trodden down, or the vehicle placed to obstruct the street more than usual when standing lengthwise aside of the curb, and the coal will be handled or delivered in a cleanly and expeditious manner.

The outer or lower end of the chute will be supported on a shifting stand, D, whereby said end may be elevated to permit a basket or other carrier to be placed under the same to receive the coal as it rolls from the chute; and a hood or flap, E, is secured to said end by sliding joints, to check the coal as it leaves the chute, and direct it to the bin or other receptacle, said joints being formed by flanges *c* at the sides of the lower section of the chute, and eyes *c'* at the sides of the hood or flap, whereby the connection of the chute and hood is at the side without obstructing the chute, and the

joints are closed to prevent the entrance of dust and dirt.

The chute may be corrugated, braced, or otherwise constructed to possess increased strength.

F represents a platform or steps placed over the chute near the outer or lower end thereof, to provide a passage for pedestrians over the chute without obstructing the coal as it rolls on the chute.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The chute A, formed with journals *a a*, which are loosely fitted on the adjustable stand B, formed of hinged legs, which are controlled by a strap or chain, C, substantially as and for the purpose set forth.

2. The chute, in combination with a vertically-adjustable stand, B, and a shifting stand, D, said stand being at opposite ends of the chute, substantially as and for the purpose set forth.

3. The chute provided with the hood or flap E, fitted to the chute by sliding joints, consisting of the flanges *c* and eyes *c'* at the sides of the chute and hood, substantially as and for the purpose set forth.

4. The chute covered with or formed of rawhide or other noise-deadening material, substantially as and for the purpose set forth.

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Witnesses:
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