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PATENTED DEC. 31, 1907.

A. C. MILEY.

COAL CHUTE FEEDER.

APPLICATION FILED APR. 12, 1905. RENEWED JUNE 7, 1907.

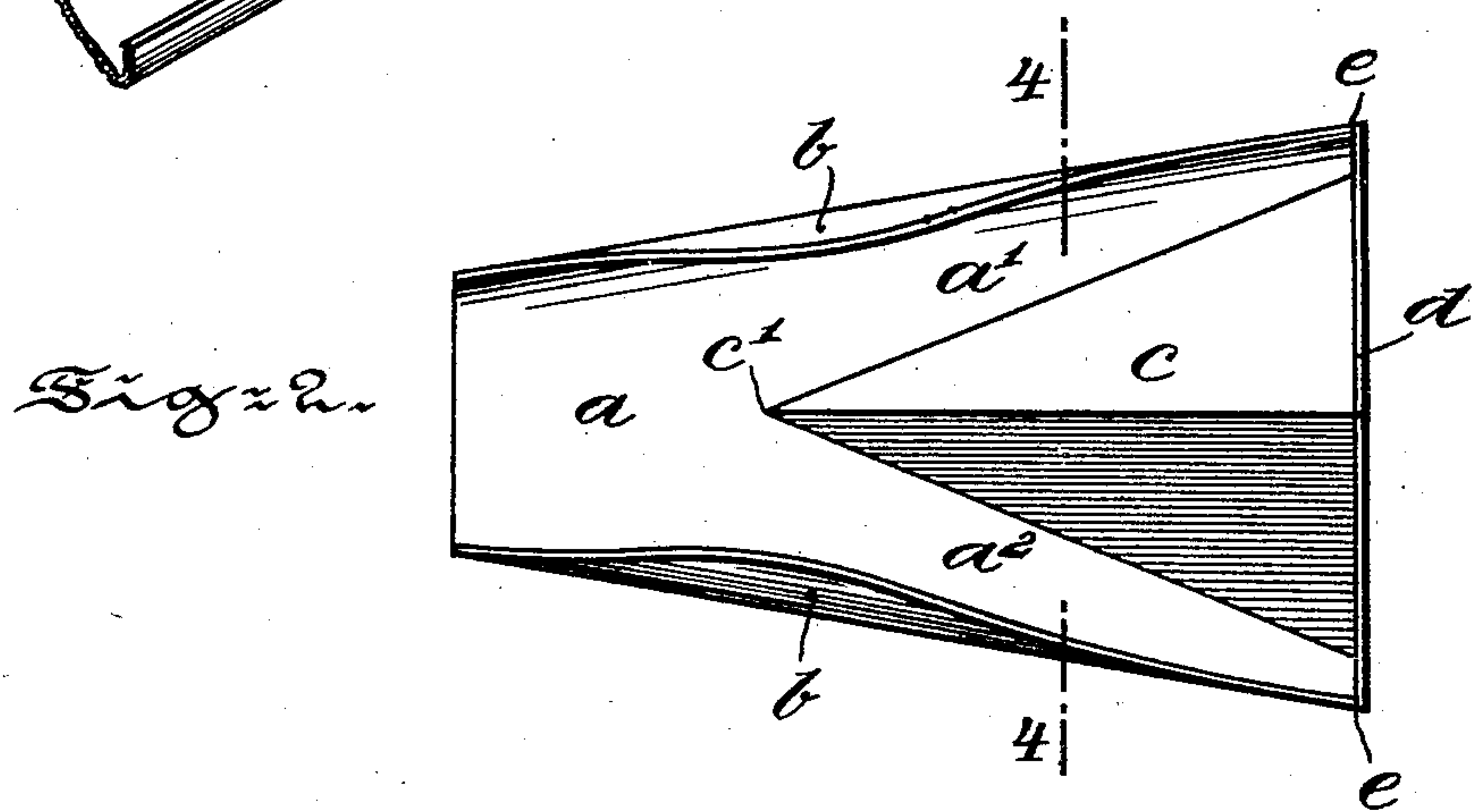
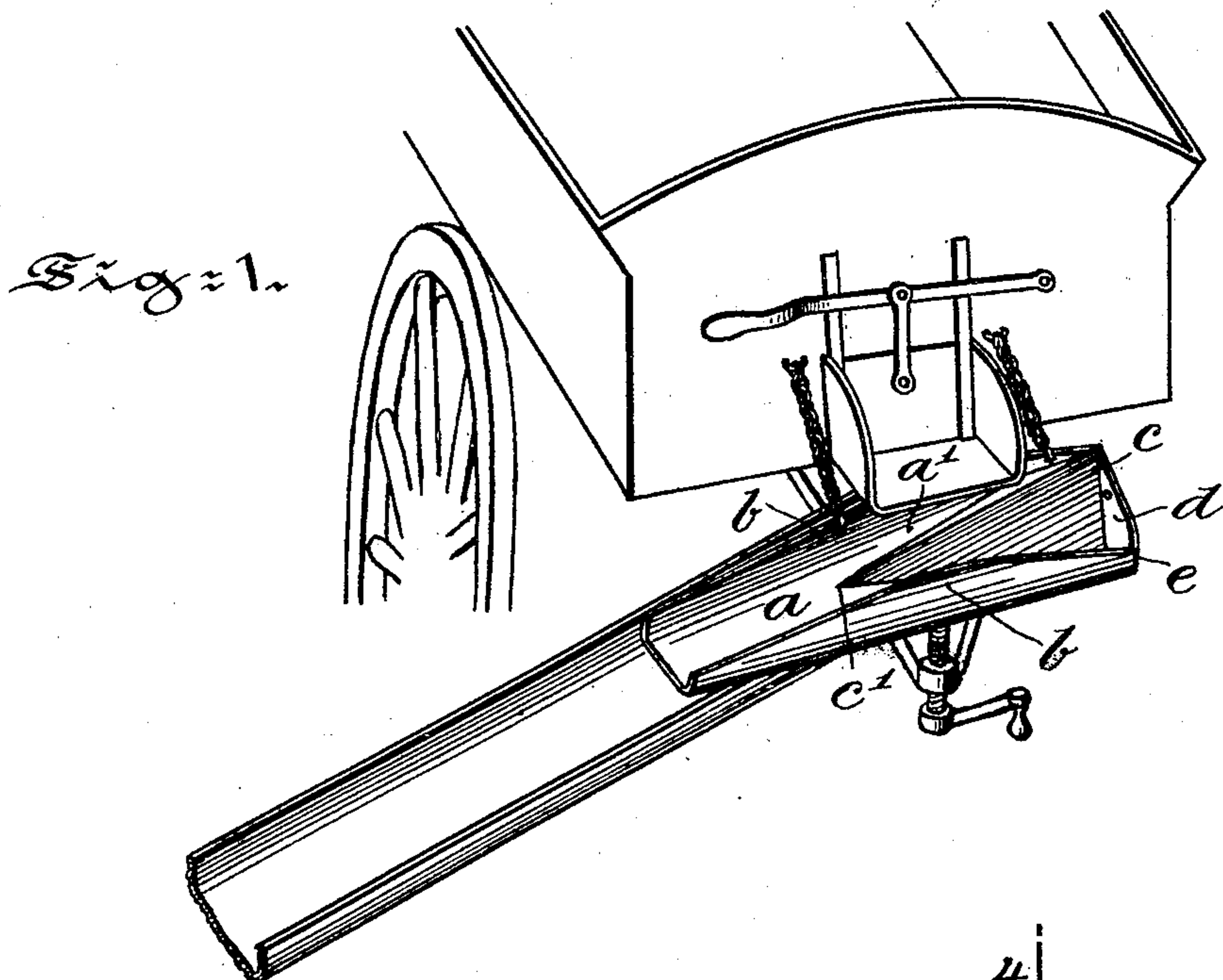
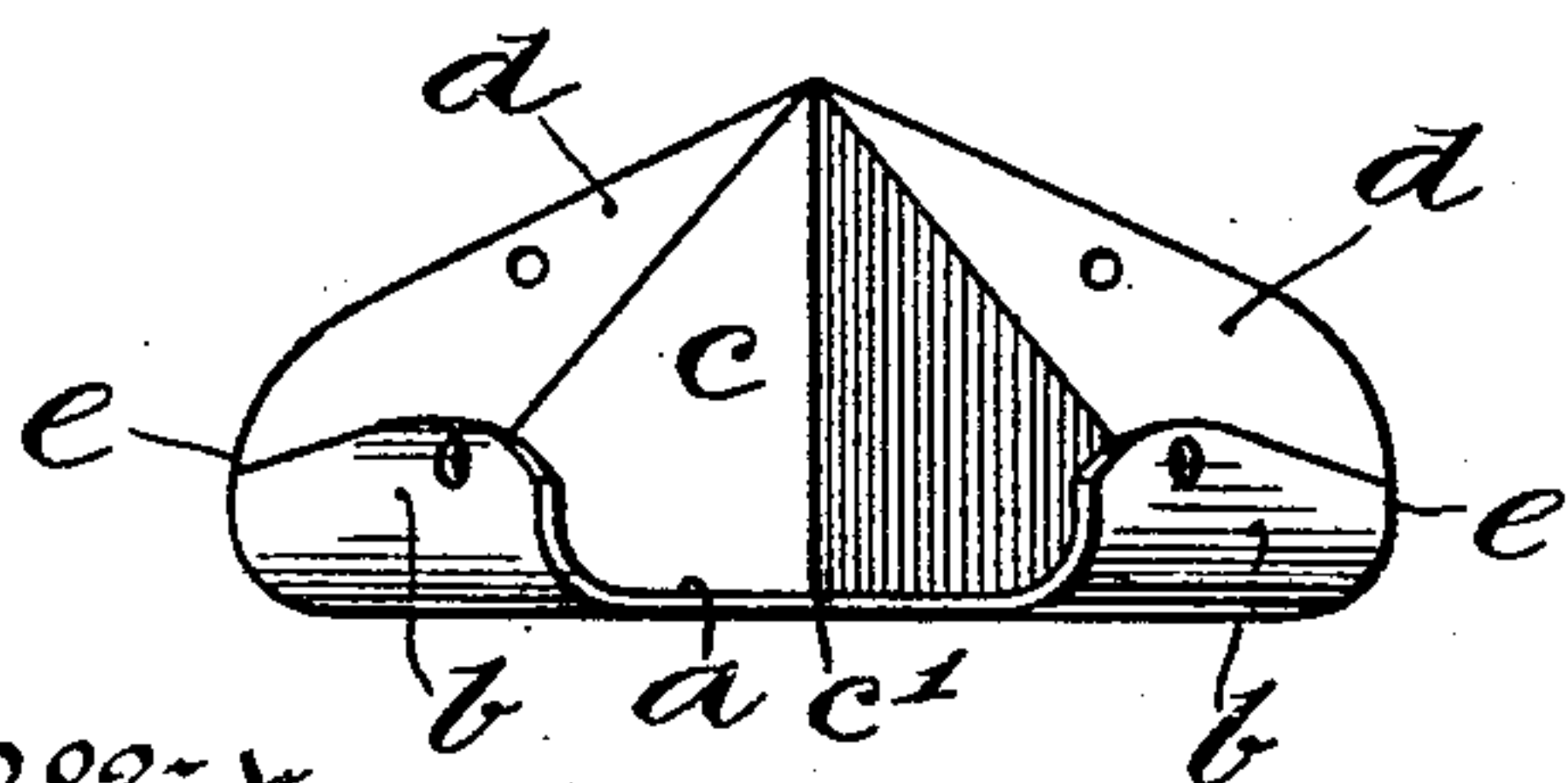
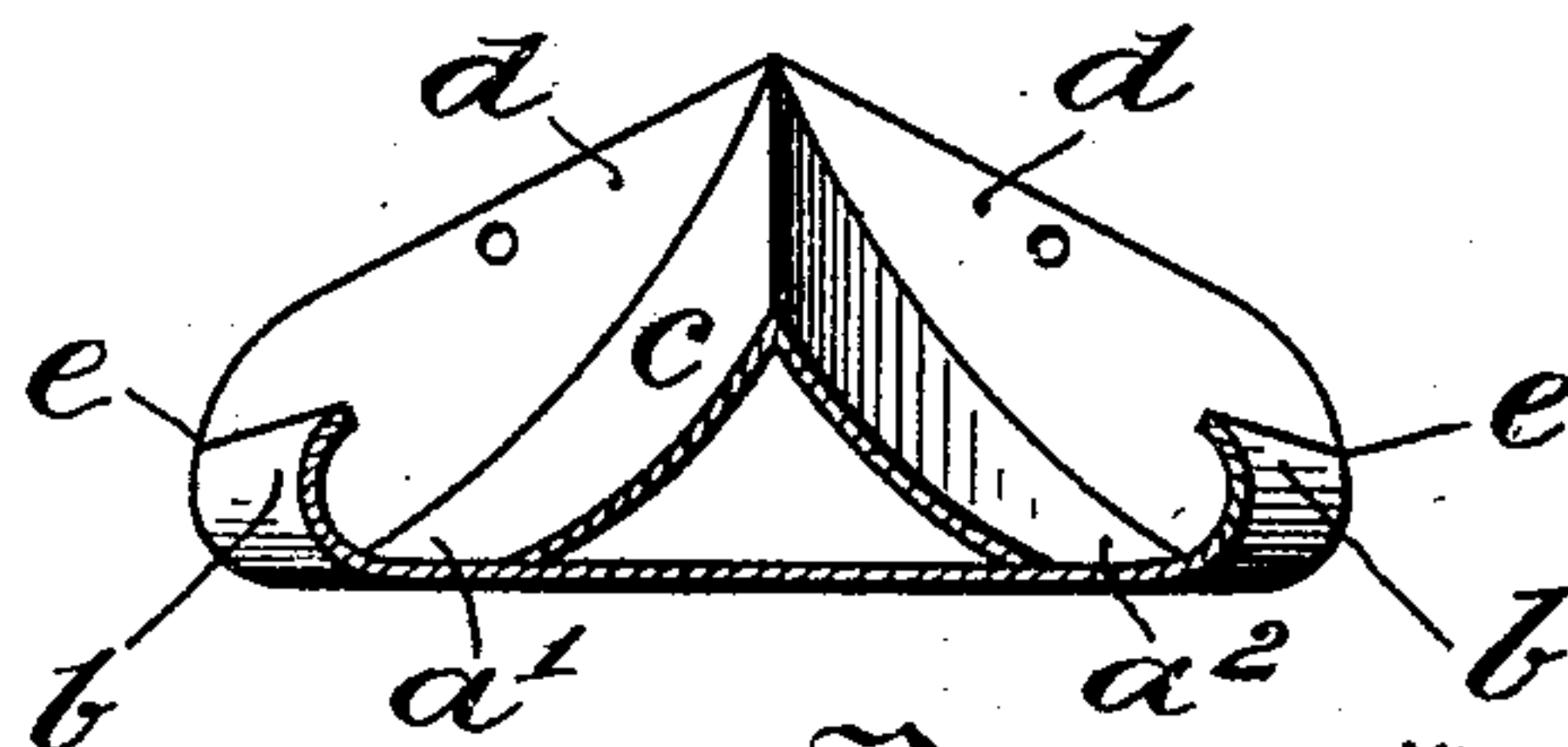


Fig. 3.



Witnesses:
Jas. C. Hobbsmith
Leon A. Carter

Fig. 4.



Inventor:
Annie C. Miley
By Carrie B. Kilgore
Attorney.

UNITED STATES PATENT OFFICE.

ANNIE C. MILEY, OF PHILADELPHIA, PENNSYLVANIA.

COAL-CHUTE FEEDER.

No. 875,447.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed April 12, 1905, Serial No. 255,258. Renewed June 7, 1907. Serial No. 377,799.

To all whom it may concern:

Be it known that I, ANNIE C. MILEY, a citizen of the United States, residing at No. 2112 North Twentieth street, Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Coal-Chute Feeders, of which the following is a specification

The object of my invention is to facilitate the delivery of coal from a coal-delivery wagon, through a chute, set parallel to, or at any angle to, the rear end opening of said coal-delivery wagon, by feeding the coal from said opening into said chute and enabling the driver to deliver the coal to the right or to the left without turning the wagon, thereby saving much labor to the driver and great and cruel strain upon the horses attached to said loaded wagon, and also saving much time and inconvenience to the public by avoiding the blocking of the street while the coal is being delivered.

My invention consists of a tapering shallow trough, with rolling flanges on either side, which rolling flanges are tapering from the central portion thereof toward the ends of the trough, which trough has a substantially triangular rib in the center at its upper or broad end, which rib is supported in an upright position, by a substantially triangular upright flange at its upper end, with sides curved to meet the side flanges of the trough, to which it is joined on either side, thereby closing the upper end of the trough and forming a double trough, feeding into a common trough, which forms the lower end of the feeder. This trough is to be attached at its upper end by a hook or other suitable device to the rear opening of a coal-delivery wagon, its lower or open end, resting upon and within the chute now in use for the delivery of coal, or a coal chute of any mechanism whatever, and attached thereto by a hook or other suitable device. This my feeder may be constructed of sheet-iron or of any suitable metal, or other material adapted to the purposes herein set forth.

Figure 1. is a perspective view, showing my feeder, attached to a coal-delivery wagon, in position for the delivery of coal to the left from and parallel to the opening in the rear end of a coal-delivery wagon. Fig. 2. represents a top-plan view of the device. Fig. 3. represents the end elevational view of the same. Fig. 4. represents a cross-sectional view of a modified form of my invention,

which would be taken on the line, 4—4, of Fig. 2.

Referring to the drawings, "a" represents the shallow tapering trough: "b" represents the rolling flanges on either side thereof and "c" the substantially triangular rib, supported by the substantially triangular flange "d" which at point *e'* *e'* unites with the flange "b" "b" on either side.

It will be seen Fig. 1. that by the position of the triangular rib "c" that the upper portion of the trough of my feeder, is divided into two parts *a'*, *a''* thereby forming a double trough, which below the apex "c" of the rib "c" feeds into a single trough "a", the double portion of the trough, enabling the driver, according to adjustment to reverse the feeder, and to deliver coal to the right or to the left of the rear opening of the coal-delivery wagon, and parallel thereto as he may desire.

In Fig. 4. there is shown a modified form of my invention in which the faces of the rib "c" are made convex for the purpose of affording a more ready delivery of the coal. This substantially triangular rib "c" in position with slightly convex faces may be described, as of a triangular pyramidal form, its bases resting upon or forming a part of the trough, as before described, its apex being supported by the upright substantially triangular flange "d", thereby forming the double trough *a'* *a''* closed at its upper end and feeding into the common trough "a" as previously described.

Having thus described my invention what I claim and desire to secure by Letters Patent, is;

1. A tapering trough, having a substantially triangular pyramidal rib, so arranged at the larger end of said trough as to divide the trough at its upper or larger end, into two converging troughs, adapted to deflect the coal into the common trough, to deliver the same from the coal-delivery wagon into the coal chute.

2. A tapering trough, having a substantially triangular pyramidal rib so arranged at the larger end of said trough, as to divide the trough at its upper or larger end, into two converging troughs adapted to deflect the coal into the common trough to deliver the same from the coal-delivery wagon into the coal chute, said tapering trough having rolling flanges on either side.

3. A tapering trough, having a substan-

tially triangular pyramidal rib, so arranged at the larger end of said trough, as to divide the trough at its upper or larger end, into two converging troughs, adapted to deflect the coal into the common trough, to deliver the same from the coal-delivery wagon into the coal chute, said tapering trough having rolling flanges on either side, said flanges tapering from the central portion thereof to the upper and lower ends of said tapering trough.

4. A tapering trough, having a substantially triangular pyramidal rib, so arranged at the larger end of said trough, as to divide the trough at its upper or larger end, into two converging troughs, adapted to deflect the coal into the common trough, to deliver the same from the coal-delivery wagon, into the coal chute, said tapering trough having roll-

ing flanges on either side, said flanges tapering from the central portion thereof to the upper and lower ends of said tapering trough, and having, a substantially triangular upright flange, closing the upper end of said double trough, and supporting the substantially triangular pyramidal rib in the center of the tapering trough at its upper or larger end, so as to form the double trough, this upright flange being so curved on either side as to meet the rolling flanges on either side of the trough.

In testimony whereof I affix hereunto my signature in presence of two witnesses.

ANNIE C. MILEY.

Witnesses:

CARRIE B. KILGORE,
LEON A. CANTER.