

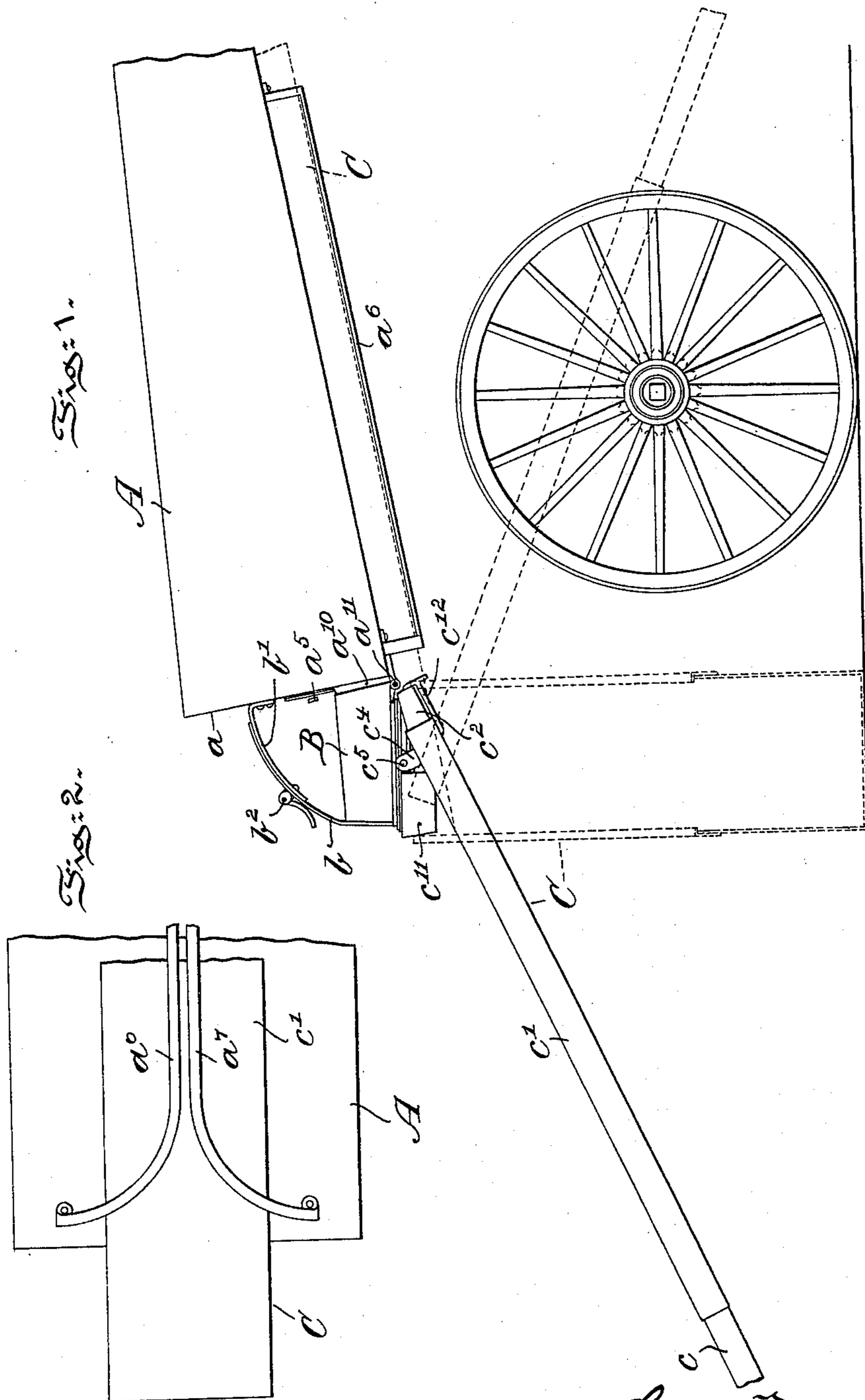
(No Model.)

2 Sheets—Sheet 1.

S. T. NEUBER.
DUMPING WAGON.

No. 596,663.

Patented Jan. 4, 1898.

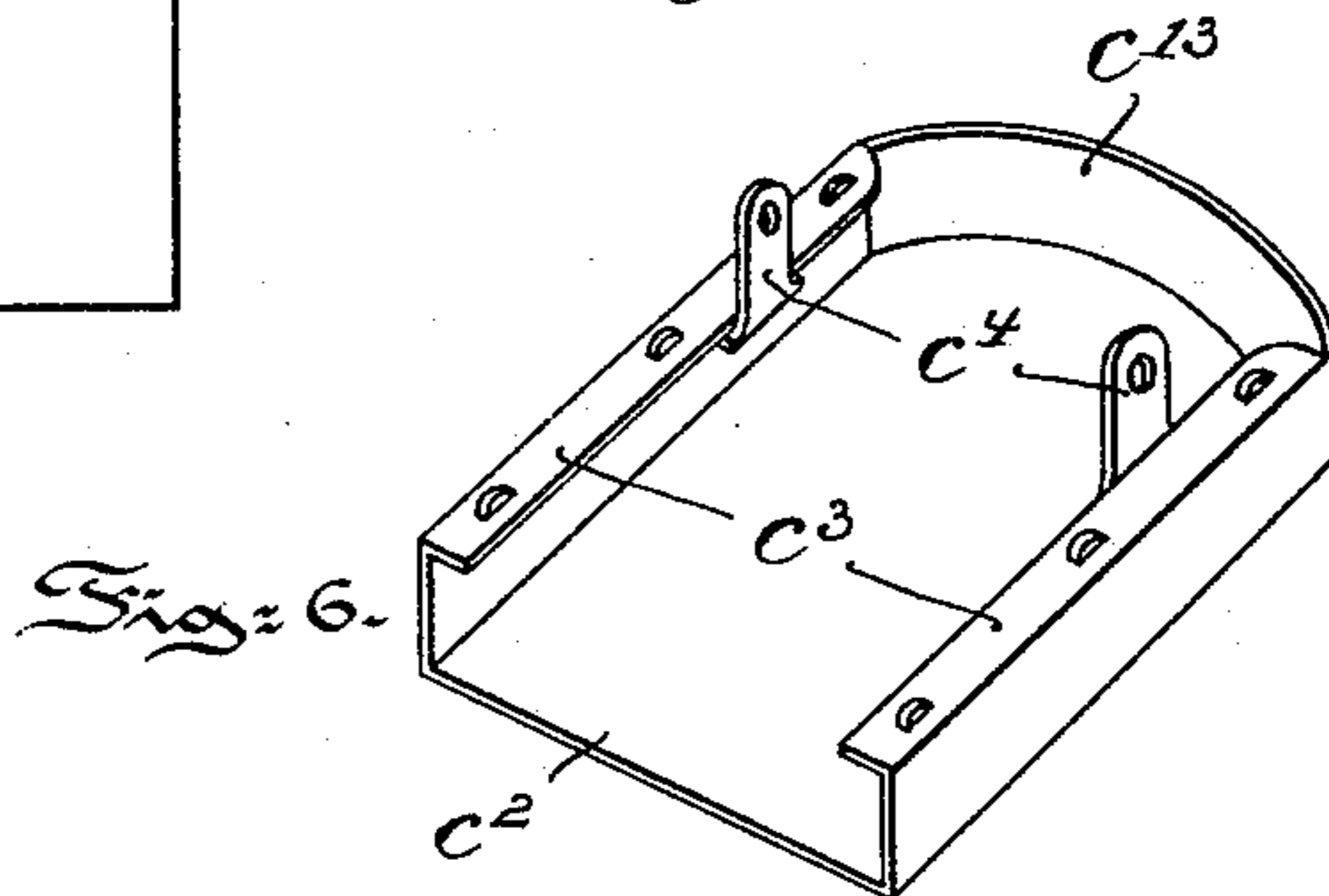
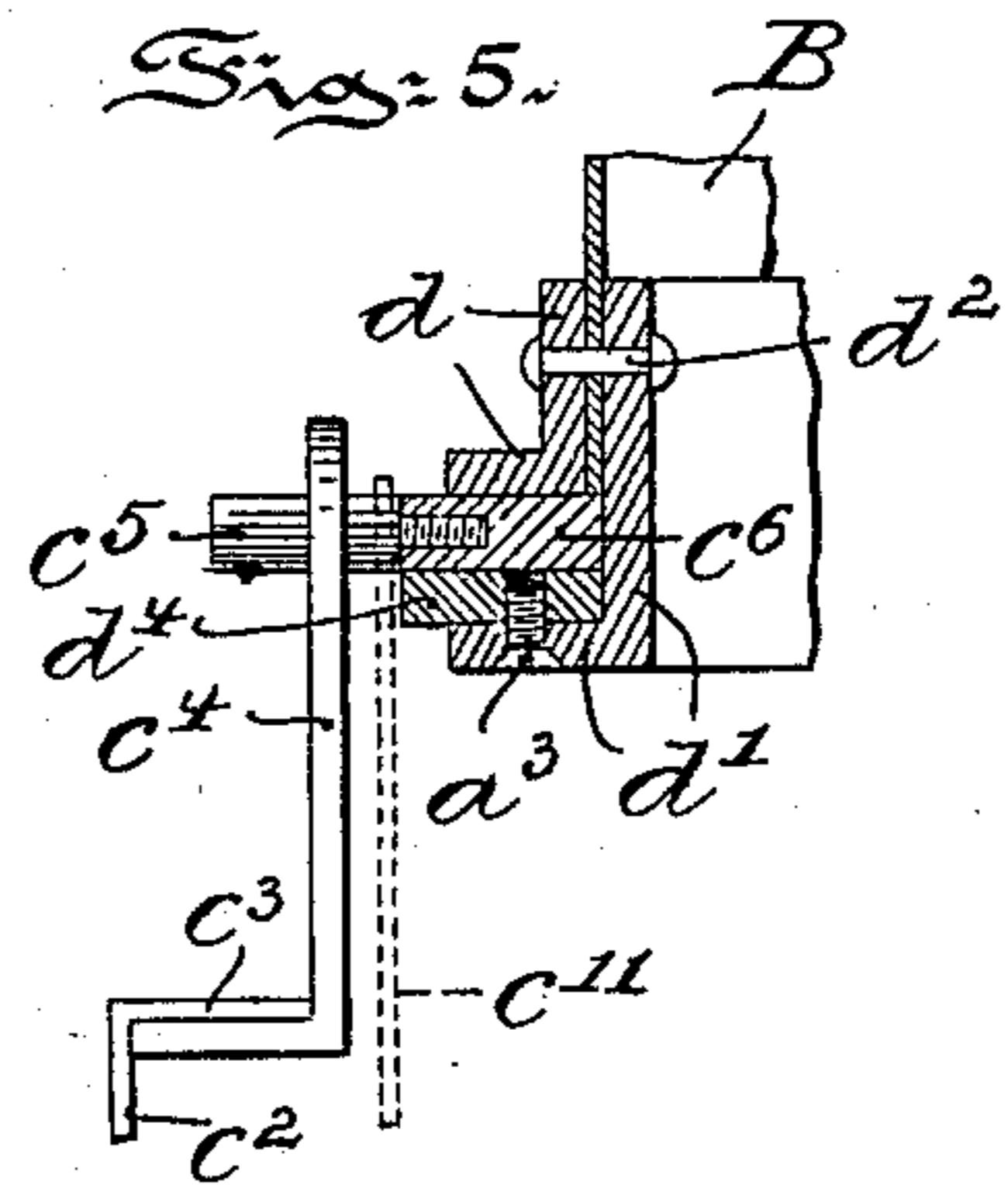
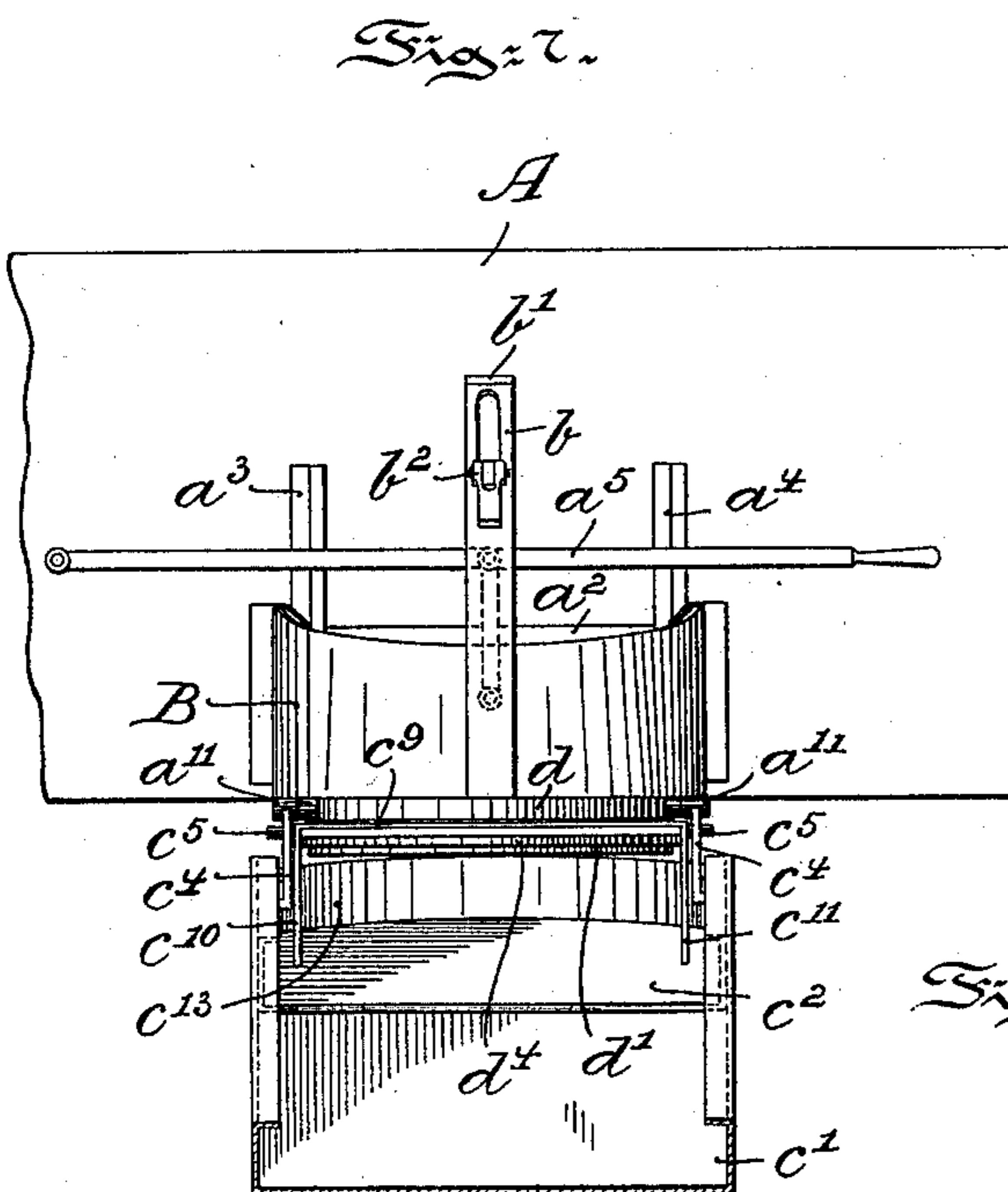
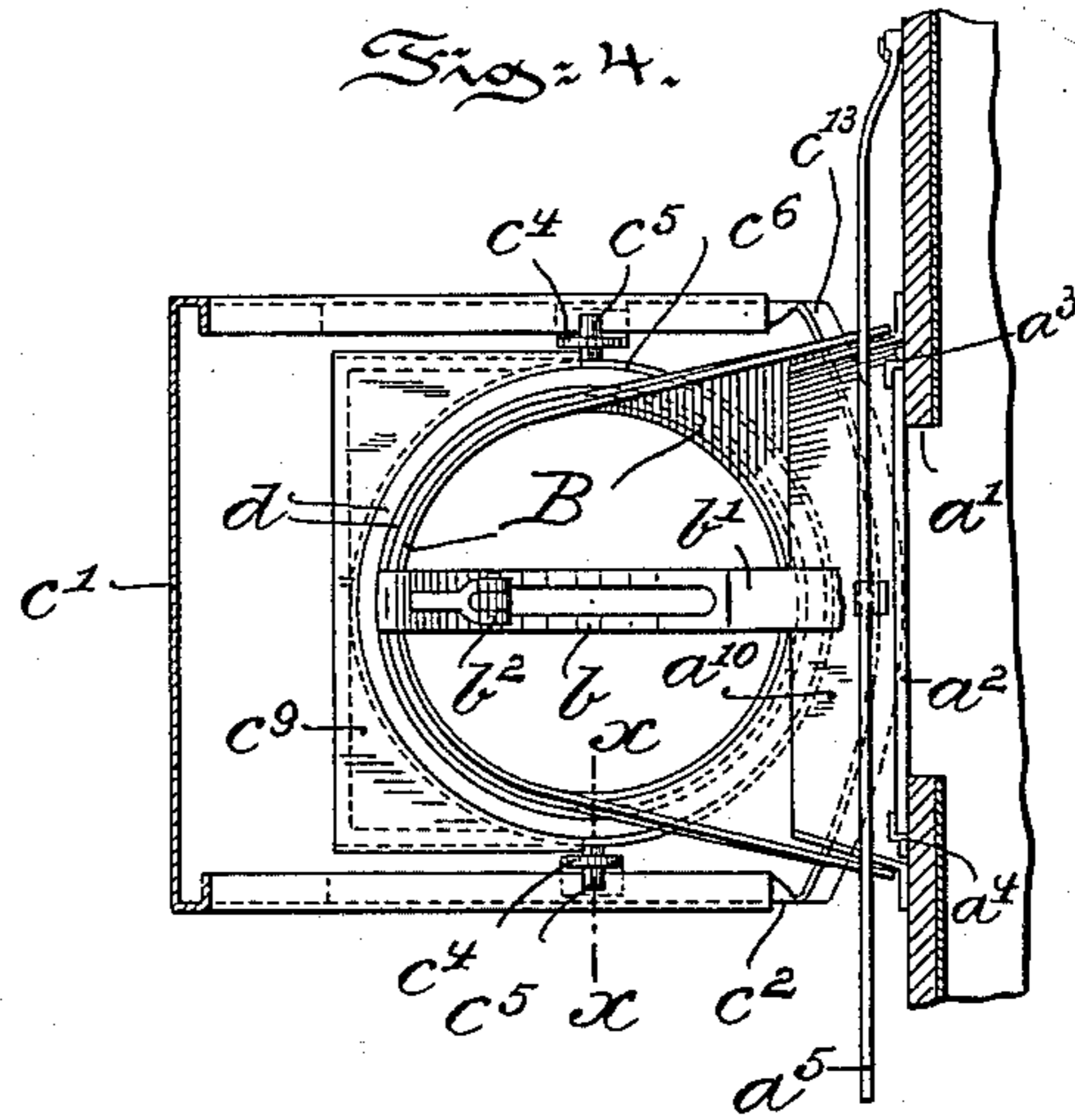
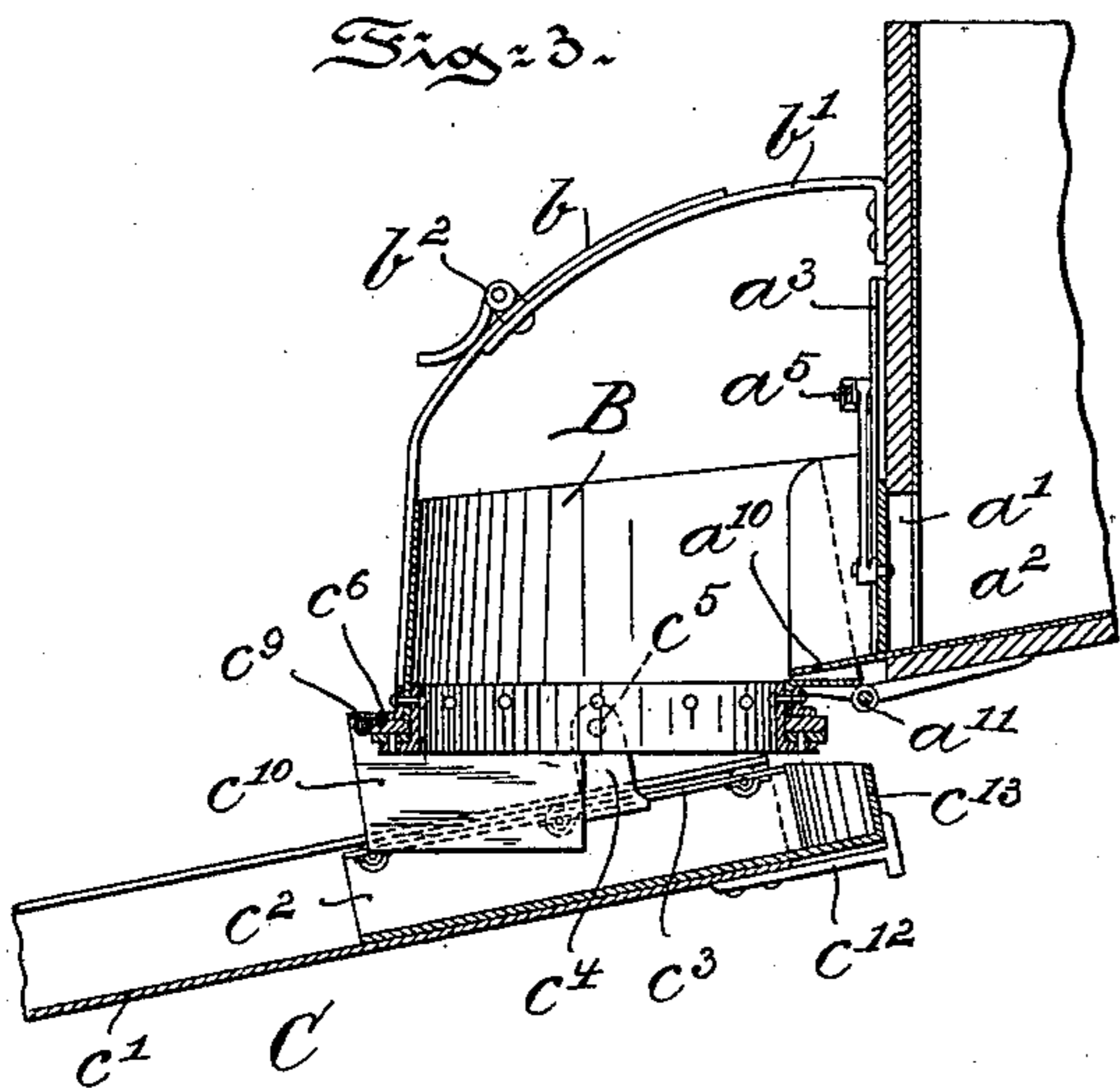


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UNITED STATES PATENT OFFICE.

SAMUEL T. NEUBER, OF PHILADELPHIA, PENNSYLVANIA.

DUMPING-WAGON.

SPECIFICATION forming part of Letters Patent No. 596,663, dated January 4, 1898.

Application filed October 9, 1897. Serial No. 654,634. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL T. NEUBER, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Dumping-Wagons, of which the following is a specification.

My invention has relation to dumping-wagons for coal or other matter; and in such connection it relates particularly to the construction and arrangement of such a wagon.

The principal objects of my invention are, first, to provide a dumping-wagon of simple construction and durable, effective, and convenient in action or operation; second, to provide a dumping-wagon in which the dumping features thereof may be brought into action for discharge of the contents of the wagon with the latter located parallel, or substantially so, to the curb of a roadway or at an angle thereto or from the underside of the wagon and without loss of the contents from the sides or assumed position of the chute or conveyor of the wagon; third, to provide a dumping-wagon provided with a pivotal and adjustable discharge-throat having an extensible conveyer or apron so arranged as that the wagon is permitted to discharge the contents of the same from a position parallel, or substantially so, to the curb of the roadway and without spilling the fuel or other matter from the sides or rear during such discharge of the wagon, and, fourth, to provide a dumping-wagon with a hinged and adjustable discharge-throat having a pivotal sectional or extensible conveyer or apron for permitting of discharge of the contents of the wagon from the rear or from underneath the wagon or at an angle to the longitudinal or other position of the wagon without loss of matter thereof in the discharge of the same.

My invention, stated in general terms, consists of a dumping-wagon constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and objects of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a side elevational view of a dumping-wagon embodying the main features of my invention, showing, respectively, in full and dotted lines three different positions of the dumping features of the wagon for discharging the contents of the same. Fig. 2 is a plan view of a portion of the under side of the wagon, showing the guides or ways for shifting or sliding the extensible discharge conveyer or apron underneath the wagon-body and out of the way during transit or while the wagon is not in operation. Fig. 3 is an enlarged side sectional view of the framework of the discharge-throat hinged to the rear of the wagon and showing the adjustable device of the same in connection with the wagon and the extensible discharge conveyer or apron pivoted to the said throat. Fig. 4 is a top or plan view of the same. Fig. 5 is a sectional view on the line $x x$ of Fig. 4, showing in detail the pivotal connection of the hinged and adjustable discharge-throat with one member of the extensible conveyer or apron. Fig. 6 is a perspective view of the rear member of the extensible discharge conveyer or apron, and Fig. 7 is a rear elevational view of the wagon with the hinged and adjustable dumping attachments of my invention in application thereto.

Referring to the drawings, A represents a coal-wagon adapted to be provided with any ordinary and suitable mechanism (not shown) for tilting or elevating the front end of the wagon into the position illustrated in Fig. 1 of the drawings.

In the rear end a of the wagon is provided an opening a' , having a tapering spout a^{10} . The opening a' is normally closed by a door or cut-off a^2 , adapted to be vertically slid in guides or ways a^3 and a^4 by means of a lever a^5 , pivoted to said door or cut-off and to the rear end a of the wagon, as clearly illustrated in Fig. 7 of the drawings. Hinged to the lower edge of the rear end a of the wagon, at a^{11} , is a tapering and semicircular discharge-throat B, provided at the rear with a slotted bail b , adapted to contact with a slotted bail b' , secured at one end to the rear end of the wagon and provided with a tightening or clamping device b^2 for permitting of the adjustment of the throat B with respect to the

particular position required of the extensible discharge conveyer or apron C, to be presently more fully explained.

Beneath the wagon-body and extending substantially the entire length of the same are arranged guides or ways a^6 and a^7 , as illustrated in Fig. 2, for sliding the conveyer or apron C along the same out of the way while the wagon A is in transit or while the conveyer or apron is out of operation. The flanged conveyer or apron C consists of a series of engaging or slidable members c , c' , and c^2 , rendered extensible by the manipulation of the same. The flanged member c^2 of the discharge conveyer or apron C is provided with a turn-over rim c^3 on each side and with upwardly-projecting lugs c^4 , forming bearings for pintles or pivots c^5 of a disk or ring c^6 , engaging a ring or gasket d^4 , and both of which are seated between fixed angle rings or strips d and d' , bolted and screwed at d^2 and d^3 to the framework or casing of the throat B to constitute a bearing for the said disk or ring c^6 , as clearly illustrated in Figs. 1, 5, and 7 of the drawings. When the discharge conveyer or apron C is in the position illustrated in full lines in Fig. 1, it may be readily shifted into the depending position illustrated in said figure to discharge the contents of the wagon through the throat B, onto the conveyer or apron C, and into a coal-hole immediately beneath the wagon, as illustrated in dotted lines in Fig. 1, or from underneath the wagon, when the conveyer or apron C has been caused to assume the position illustrated in dotted lines in Fig. 1, by first simply telescoping the members of the conveyer or apron C and reversing the same and then causing it to assume the angular position so indicated in the dotted lines of Fig. 1 underneath the wagon. When the contents have been removed in any of the positions of the conveyer or apron as illustrated in Fig. 1, the same may then be caused to readily assume a position out of the way underneath the wagon A in engagement with the guides or ways a^6 and a^7 . On the outer portion of the rotary disk or ring c^6 farthest from the body A is provided a top plate or shield c^9 , with side depending wings or vanes c^{10} and c^{11} , as fully illustrated in Figs. 1, 3, and 4 of the drawings, to prevent the matter discharging through the throat B, being precipitated over the sides or from the front over the conveyer or apron C, and the front end of rear member c^2 is provided with a circular end shield c^{13} to direct the discharge onto the conveyer or apron and thereby to prevent any possible discharge of the contents of the wagon other than through the conveyer or apron C, whatever position it may be caused to assume for the operation thereof. The member c' of the conveyer or apron C is provided with a back-stop c^{12} , engaging the rear wall of the member c^2 , to prevent the drawing out of the respective members, the latter member being entirely withdrawn from the second member of said conveyer or apron C.

It will be manifestly obvious that as to some of the details of the dumping features constituting my present invention for coal-wagons modifications may be made without departing from the spirit or scope thereof, and hence I do not wish to be understood as limiting myself to the precise construction and arrangement of all the parts of the same as hereinbefore explained; but,

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a dumping-wagon, of a body provided with an opening closed by a slidable door, a throat, the casing of which is hinged to said body and provided with means for adjusting the position thereof, and a pivotally-supported extensible conveyer or apron journaled to the wall of said throat so as to be afforded a rotary movement in connection therewith, substantially as and for the purposes described.

2. The combination, in a dumping-wagon, of a body provided with an opening having a spout, a throat, the casing of which is made tapering and semicircular and is hinged to said body, a ring provided with pintles journaled and seated upon said casing, and a conveyer or apron composed of a series of telescoping sections, one of which is provided with flanged side walls with a rear shield and lugs forming bearings for the pintles of said ring or disk, substantially as and for the purposes described.

3. The combination, in a dumping-wagon, of a body provided with an opening adapted to be closed by a sliding door, a throat, the casing of which is hinged to said body and is provided with slotted bails connected with said body and casing and has a clamping device, and a conveyer or apron pivotally connected with a ring journaled to the casing of said throat, substantially as and for the purposes described.

4. The combination, in a dumping-wagon, of a body provided with an opening adapted to be closed by a movable door, a throat, the casing of which is movably connected with the rear of said body and is provided with means for adjusting said throat, and an extensible conveyer or apron comprising a series of sections, one of which is pivotally supported from and rotatable about the casing of said throat, substantially as and for the purposes described.

5. The combination, in a dumping-wagon, of a body provided with an opening having a spout and a door adapted to be slid in connection with said opening, a throat, the casing of which is pivotally and adjustably connected with said body, and a telescoping conveyer or apron pivotally supported from a ring journaled to the casing of said throat and having side and front shields, substantially as and for the purposes described.

6. The combination, in a dumping-wagon, of a body provided with an opening having a

slidable door, a throat, the casing of which is
pivotally and adjustably connected with said
body, a sectional conveyer or apron pivotally
supported from a ring journaled and seated
5 upon said casing, and a back-stop connecting
one of the sections of said conveyer with an-
other section provided with side and rear
shields, substantially as and for the purposes
described.

In testimony whereof I have hereunto set to
my signature in the presence of two subscrib-
ing witnesses.

SAMUEL T. NEUBER.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.

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