

No. 653,314.

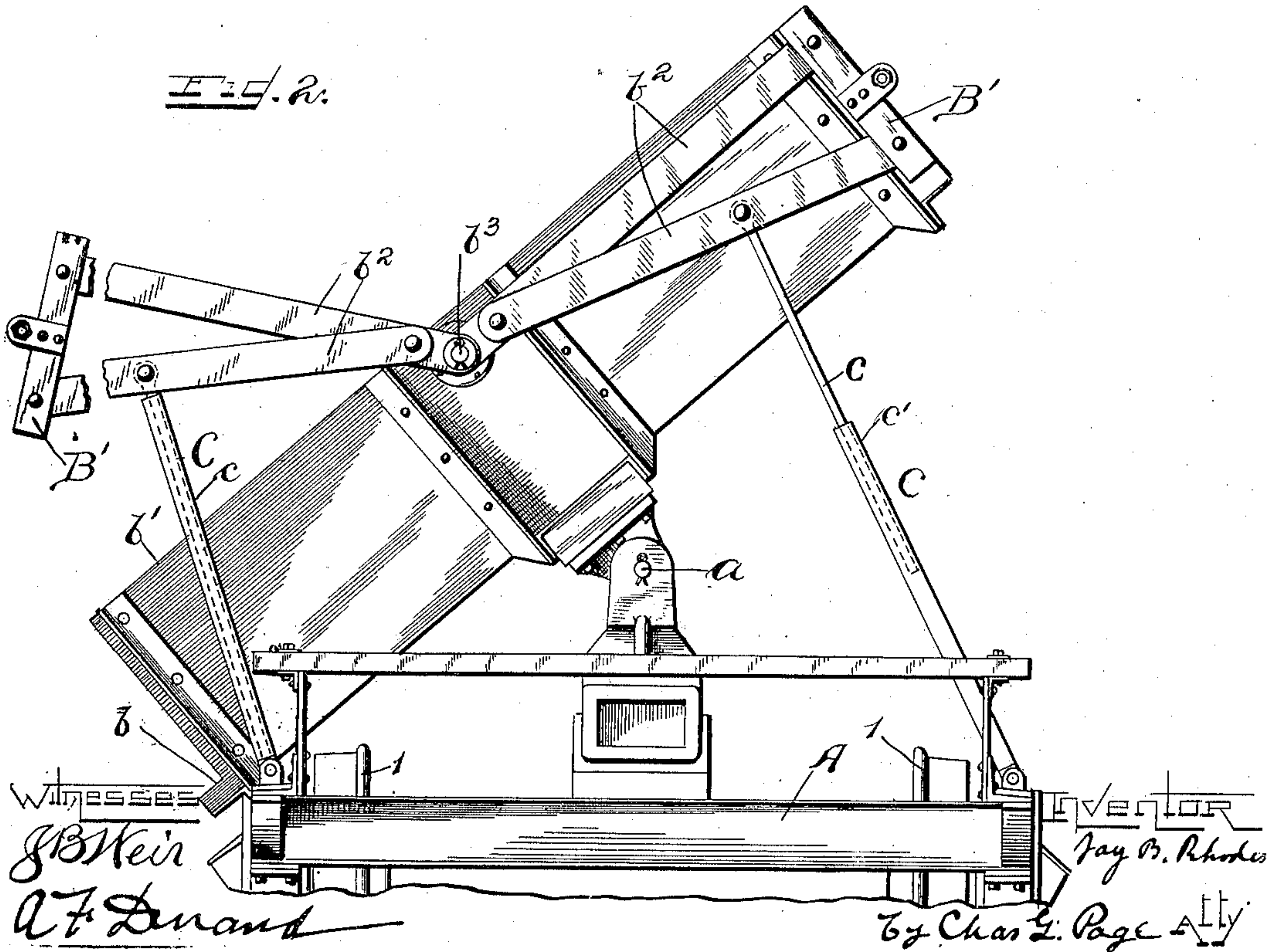
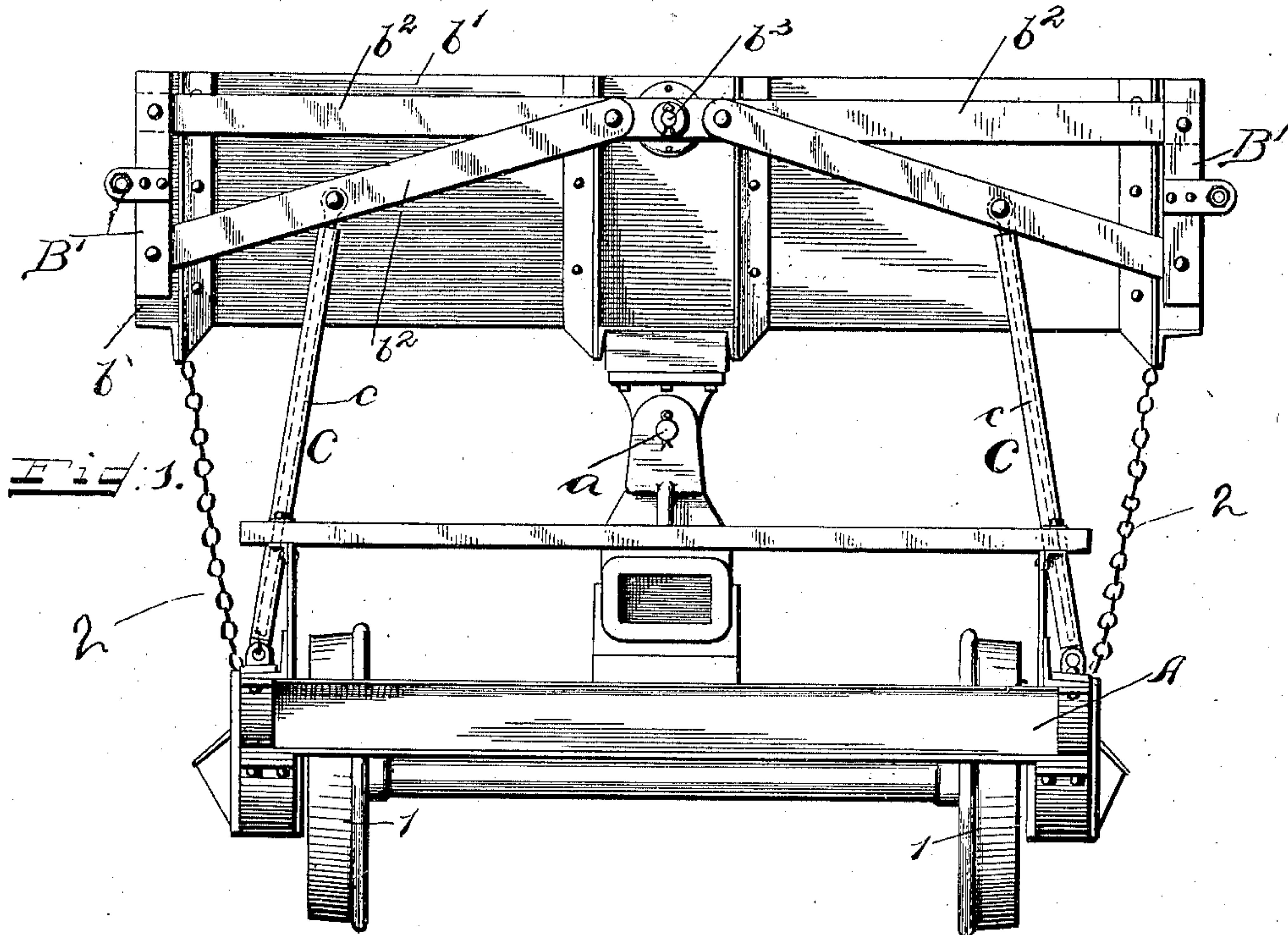
Patented July 10, 1900.

J. B. RHODES.
DUMPING CAR.

(Application filed Feb. 26, 1900.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES

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Fig. 3.

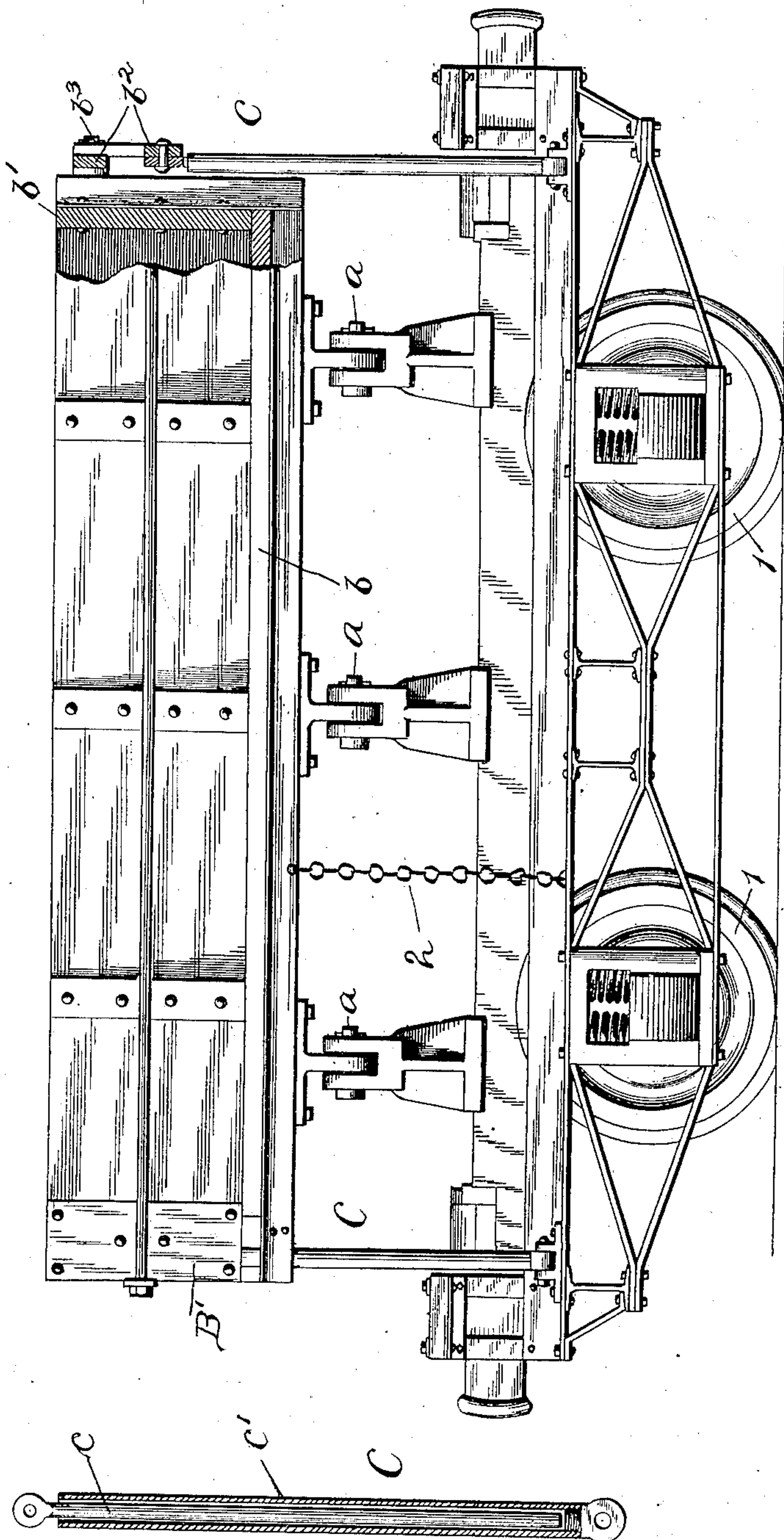
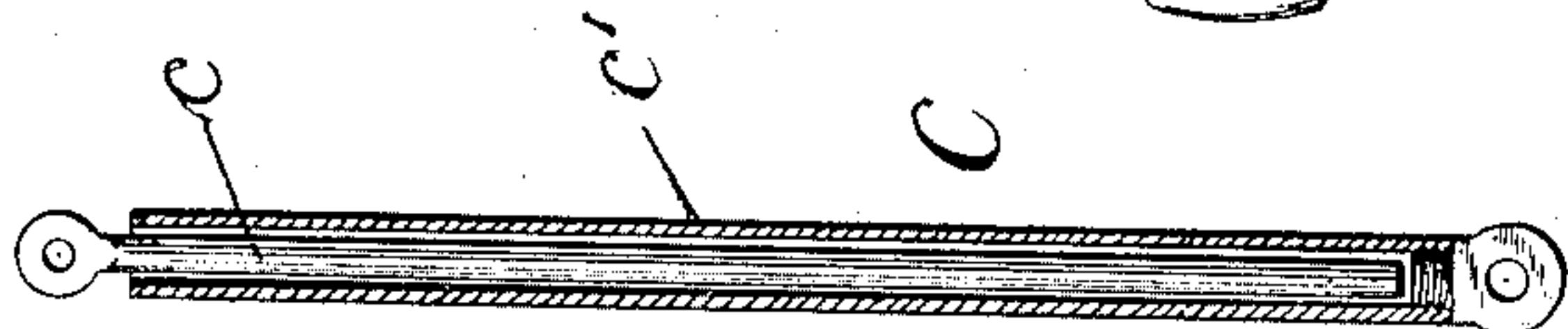


Fig. 4.



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JAY B. RHODES, OF HARVEY, ILLINOIS, ASSIGNOR TO FREDERICK C. AUSTIN,
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DUMPING-CAR.

SPECIFICATION forming part of Letters Patent No. 653,314, dated July 10, 1900.

Application filed February 26, 1900. Serial No. 6,544. (No model.)

To all whom it may concern:

Be it known that I, JAY B. RHODES, a citizen of the United States, residing at Harvey, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Dumping-Cars, of which the following is a specification.

My invention relates to a construction of dumping-car involving a receptacle which tilts about a horizontal axis, so as to discharge its load at either side of the track, and which has its open sides closed by a couple of automatic side gates.

Objects of my invention are to provide simple and effective means for supporting the side gates—that is to say, to provide an arrangement whereby the tilting of the receptacle will operate to automatically release or open the gate at the lowered or depressed side of the receptacle, so as to permit the load to slide out, and whereby such gate will be adequately supported until the receptacle returns to its normal horizontal position; to provide a form of support for the gates which will not be liable to get out of order, and to provide an arrangement which will render the car serviceable and reliable.

To the attainment of the foregoing and other useful ends my invention contemplates a dumping-car comprising a wheeled base or truck, a tilting receptacle mounted thereon, a couple of swinging side gates for closing the open sides of the receptacle, and telescoping or extensible connections between the said gates and truck. These telescoping or extensible connections are so arranged that the gates are free to swing upward from their normal positions, but are of such character that they serve as stops to prevent or limit any downward swing from such normal positions. With this arrangement it will be seen that when the receptacle tilts to one side one gate remains at the side of the receptacle and is carried upward, while the other gate retains its position, or approximately so, and is supported by its telescoping or extensible connections with the truck. In this way the gates are automatic in their action and the load can be discharged at either side of the track. The telescoping or extensible connections are sim-

ple and render the car reliable and certain in its action.

In the accompanying drawings, Figure 1 is an end elevation of a dumping-car embodying the principles of my invention. Fig. 2 is a similar view showing the receptacle tilted to one side. Fig. 3 is a side elevation of the car shown in Fig. 1. Fig. 4 is a detail view of one of the telescoping or extensible connections between the gates and truck.

The base or body A can be of any suitable construction and is provided with car-wheels l . Upon the truck thus provided and mounted to tilt about suitable pivots a I arrange a receptacle B. The receptacle thus arranged to tilt about a horizontal and longitudinal axis is constructed with a floor b and a couple of end boards b' . The open sides of the receptacle are closed by the side gates B' . These side gates are provided with arms b^2 , which are pivoted to the ends of the receptacle. Preferably the arms have a common pivotal point, as at b^3 . Each arm is connected with the truck or body by means of a telescoping or extensible connection C. These telescoping connections are each composed of a rod c and a pipe or tube c' . The said rod has its upper end pivotally connected to an arm b^2 , and the tube or pipe has its lower end pivoted to the truck. The rod is of a size to slide freely within the said pipe or tube. In this way each gate has telescoping or extensible connections between its ends and the truck. Stay-chains 2 can be employed for steadying the receptacle and maintaining it in a horizontal position when loaded.

The car thus constructed may be tilted sidewise about the axis provided by the pivots a , it being necessary, of course, to first release the stay-chains 2. When tilted to one side, as shown in Fig. 2, the elevated side of the receptacle is closed by reason of the gate at such side remaining in place, while the lowered or depressed side of the receptacle is open by reason of the gate at this side being held against downward swing. The lower ends of the pipes or tubes c' can be made solid, so as to limit the downward movement of the rods c , or, vice versa, the tubes can be of a length to bear against the arms b^2 when

the receptacle is in its normal horizontal position. In either case, however, it will be seen that the gates are held against downward swing, but are free to swing upward. In this way the tilting of the receptacle serves to automatically release or open the gate at the depressed side of the receptacle, and the extensibility of the connections C permits the other gate to rise and remain in place.

10 What I claim as my invention is—

1. A dumping-car comprising a suitable truck or body-frame, a receptacle thereon mounted and arranged to tilt about a horizontal axis, side gates for closing the open sides of said receptacle, when in a horizontal position, said gates having swinging connections with the ends of the receptacle, and telescoping connections between said gates and body-frame or truck, substantially as and for the purpose set forth.

2. A tilting receptacle, a base or body upon which said receptacle is mounted, a swinging gate for closing the open side of said receptacle, when the receptacle is in a horizontal position, and one or more telescoping connec-

tions between said gate and said base or body, substantially as and for the purpose set forth.

3. A dumping-car comprising a base or body, a receptacle mounted thereon and arranged to tilt about a horizontal and longitudinally-extending axis, side gates adapted to close the open sides of said receptacle, when the latter is in a horizontal position, said gates being provided with arms having pivotal connections with the ends of said receptacle, and telescoping connections between said gates and said base or body.

4. A base or body, a tilting receptacle mounted thereon, side gates arranged to close the open sides of said receptacle and provided with arms which are pivoted to the ends of the receptacle, tubes having their lower ends pivoted to said base or body, and rods sliding in said tubes and having their upper ends suitably connected with said gates.

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Witnesses:

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