

(No Model.)

L. RODENHAUSEN.
Dumping Wagon.

No. 239,848.

Patented April 5, 1881.

Fig. 1.

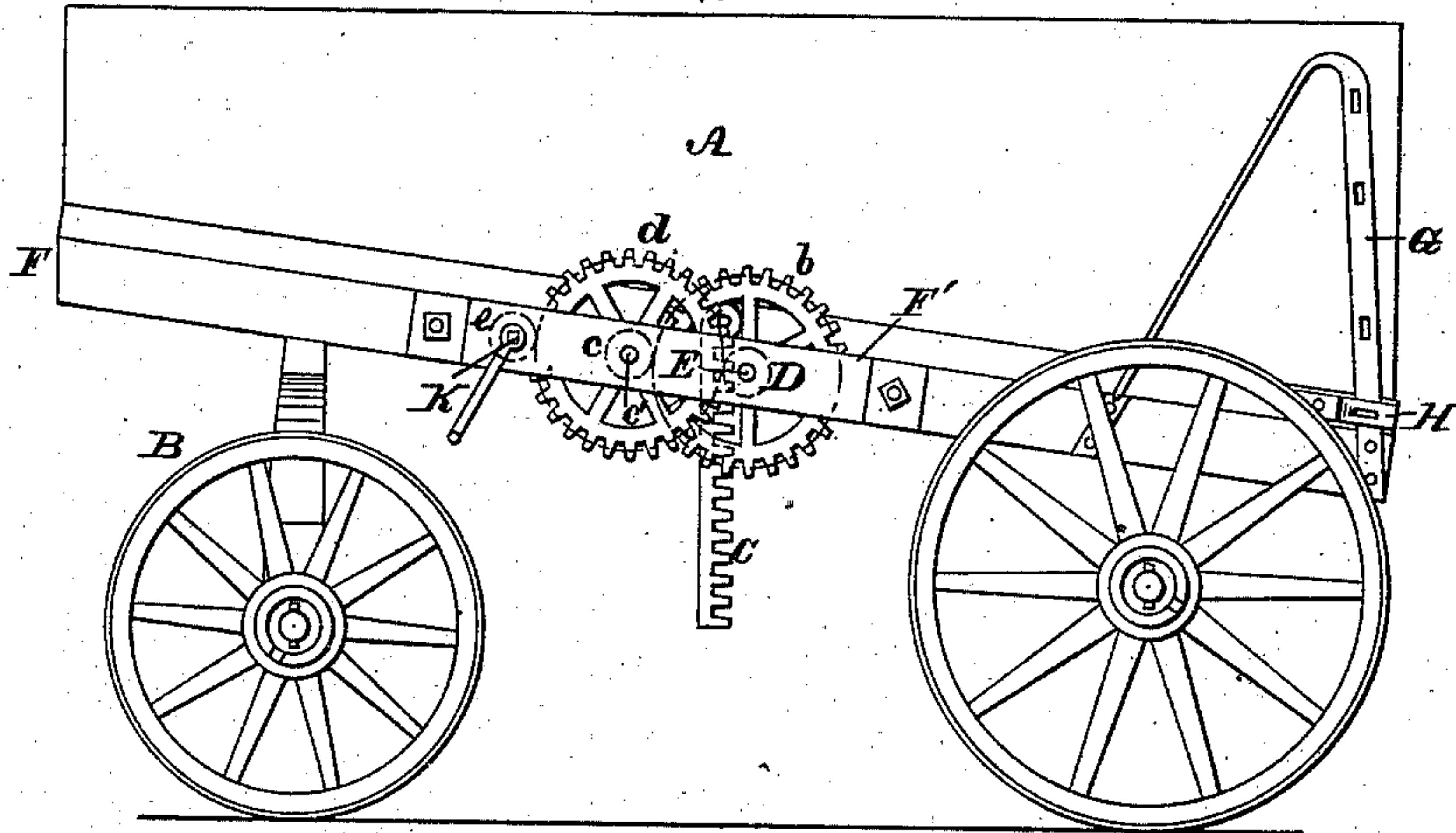


Fig. 2.

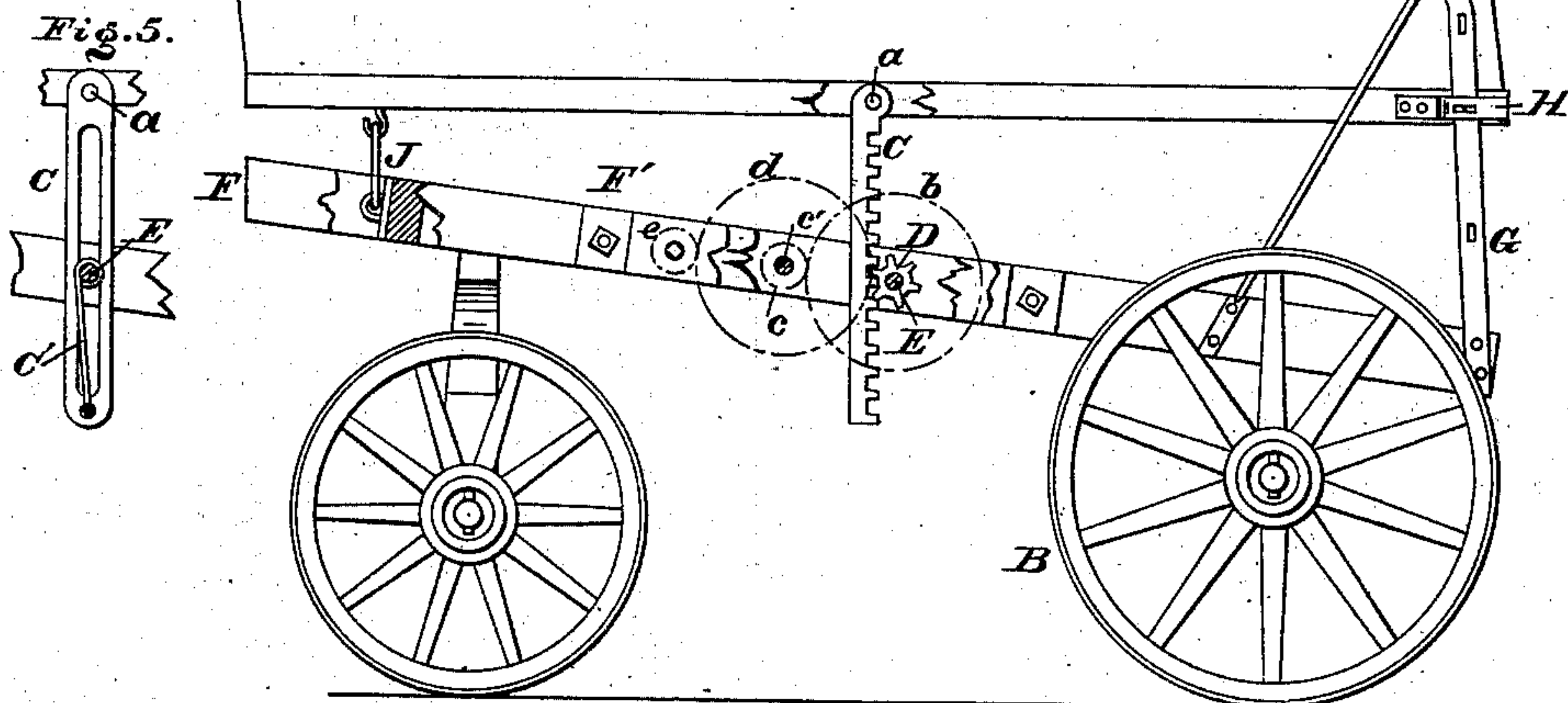
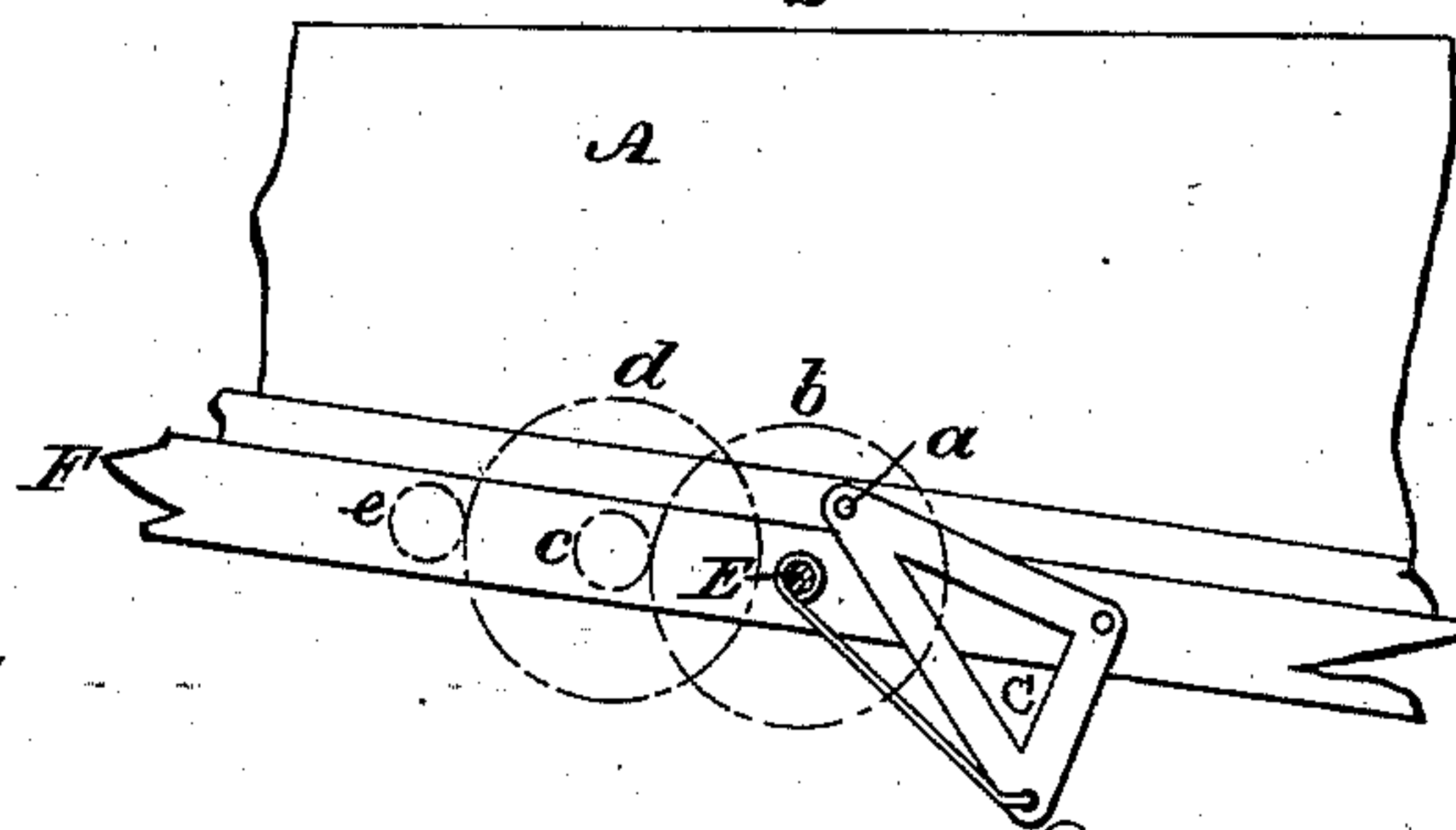
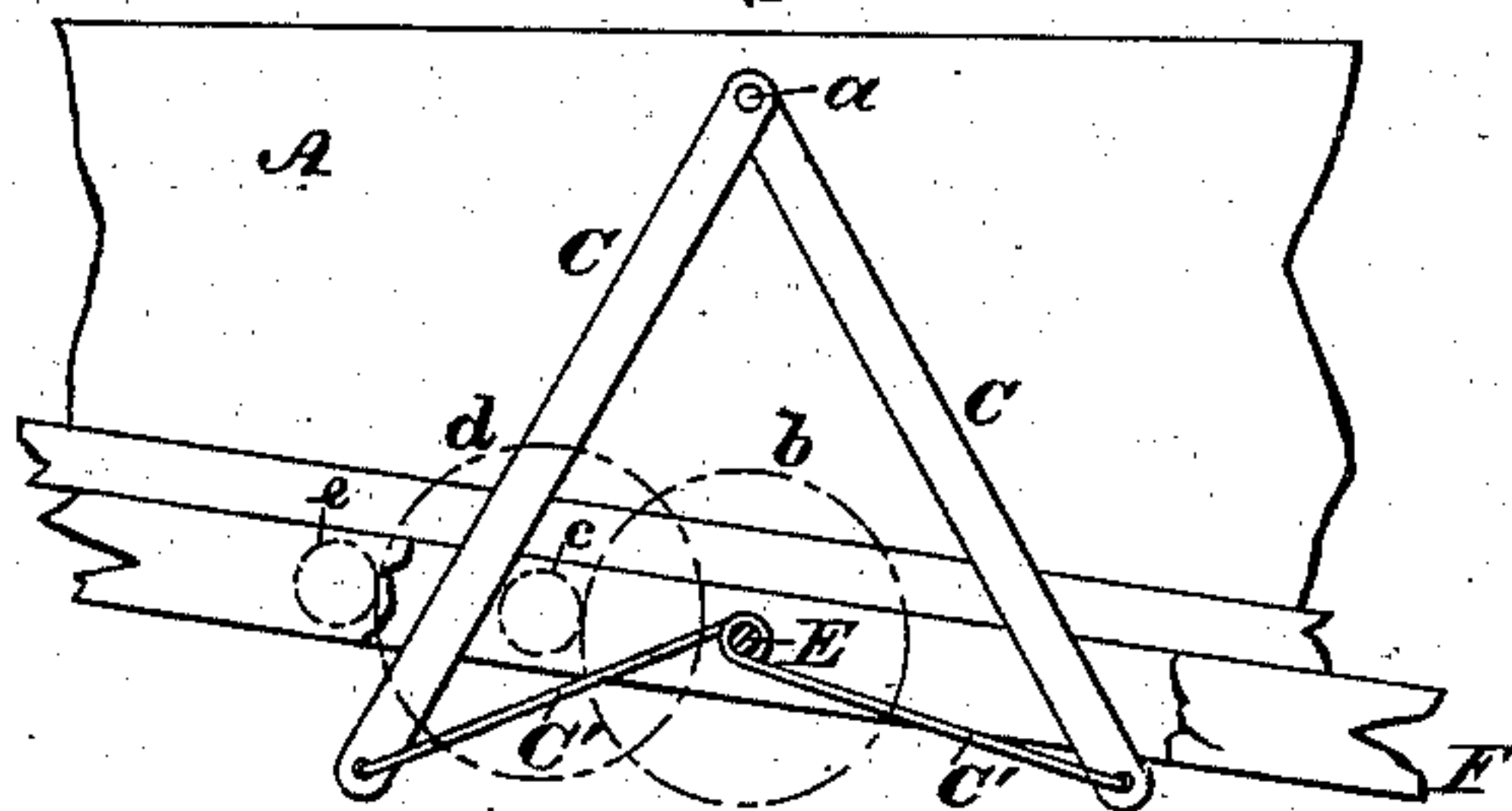


Fig. 3.

Fig. 4.

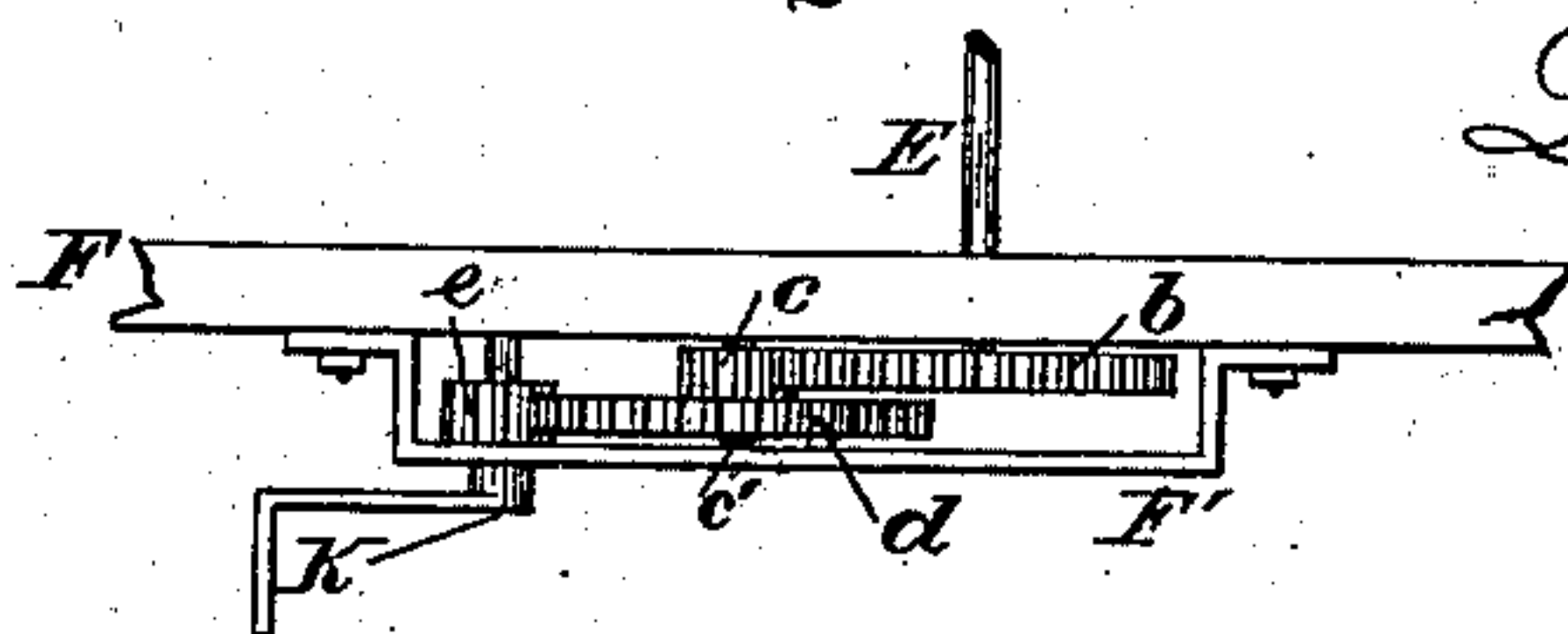


Witnesses:

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Fig. 6.



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LEONHARD RODENHAUSEN, OF PHILADELPHIA, PENNSYLVANIA.

DUMPING-WAGON.

SPECIFICATION forming part of Letters Patent No. 239,848, dated April 5, 1881.

Application filed November 19, 1880. (No model.)

To all whom it may concern:

Be it known that I, LEONHARD RODENHAUSEN, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Dumping Carts and Wagons, which improvement is fully set forth in the following specification and accompanying drawings, in which—

10 Figures 1 and 2 are side elevations of the dumping-wagon embodying my invention. Figs. 3, 4, and 5 are views of modifications. Fig. 6 is a top view of another portion of the invention.

15 Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of the body of a dumping cart or wagon having elevating mechanism and multiple gear therefor, whereby the
20 body may be raised with facility and ease.

Referring to the drawings, A represents the body of a wagon, and B the running gear thereof.

C represents elevating-arms extending vertically and pivoted at their upper ends to the sides of the body A, at the center thereof. In Figs. 1 and 2 said arms are in the form of rack-bars, which mesh with pinions D, keyed or otherwise secured to a shaft, E, which is mounted on the reaches F of the wagon, so that the
30 rotation of the shaft in one direction rotates the pinion D, and consequently raises the rack-bars C and the wagon-body. In Fig. 3 two arms, C, are employed, their upper ends having a common pivotal connection with the
35 body A, and their lower ends each having a strap, cord, or chain, C', the two straps simultaneously winding on the shaft E, whereby said lower ends are brought together, thus
40 causing the elevation of the arms and of the body. In Fig. 4 the arms are what I term "radii," the lower ends being pivoted to the reaches; and in Fig. 5 each arm is connected at its lower end to a strap, C', which is connected to and winds on the shaft E, thus raising the arms and the body.

It will be seen that when the body is ele-

vated or lifted it is in position for being cant-
ed rearward and dumping the load, the piv-
otal connections *a* of the upper end of the arms 50
forming the axis for the body.

Attached to the rear end of the reaches are upright bars G, which pass through eyes H on the sides of the sills of the body A, in the use of which, when the body is lifted a certain
55 extent, its forward end is first hooked to the reaches by a link, J, for temporarily holding said end. The rear end of the body then continues to rise, and when the proper height is reached pins are passed through openings in
60 the bars and eyes for preventing further elevation of the rear end, and the link J is unhooked or disconnected. The operation of rotating the shaft E is continued and the forward
65 end of the body is further elevated, the rear end turning on the pins of the guards and eyes as an axis, and thus the proper pitch for the body is obtained. When the load is dumped the rear pins are removed, and the body may
70 lower or be lowered to its normal position.

Connected to the shaft E is a spur-wheel, *b*, which meshes with a pinion, *c*, on a shaft, *c'*, the latter carrying a spur-wheel, *d*, which meshes with a pinion, *e*, on a crank-shaft, K, the shafts *c'* K having their bearings on the reach F and a bent strap, F', which, preferably
75 formed of metal, is bolted or screwed to said reach. It will be seen that by this multiple gearing, when the wheels thereof are set in motion by the crank-shaft K, the several op-
80 erations of rotating the shaft E and bodily lifting the load are vastly eased, one person being sufficient to turn said crank.

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

The body, in combination with elevating or lifting arms and multiple gear, substantially as and for the purpose set forth.

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Witnesses:

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