

No. 739,880.

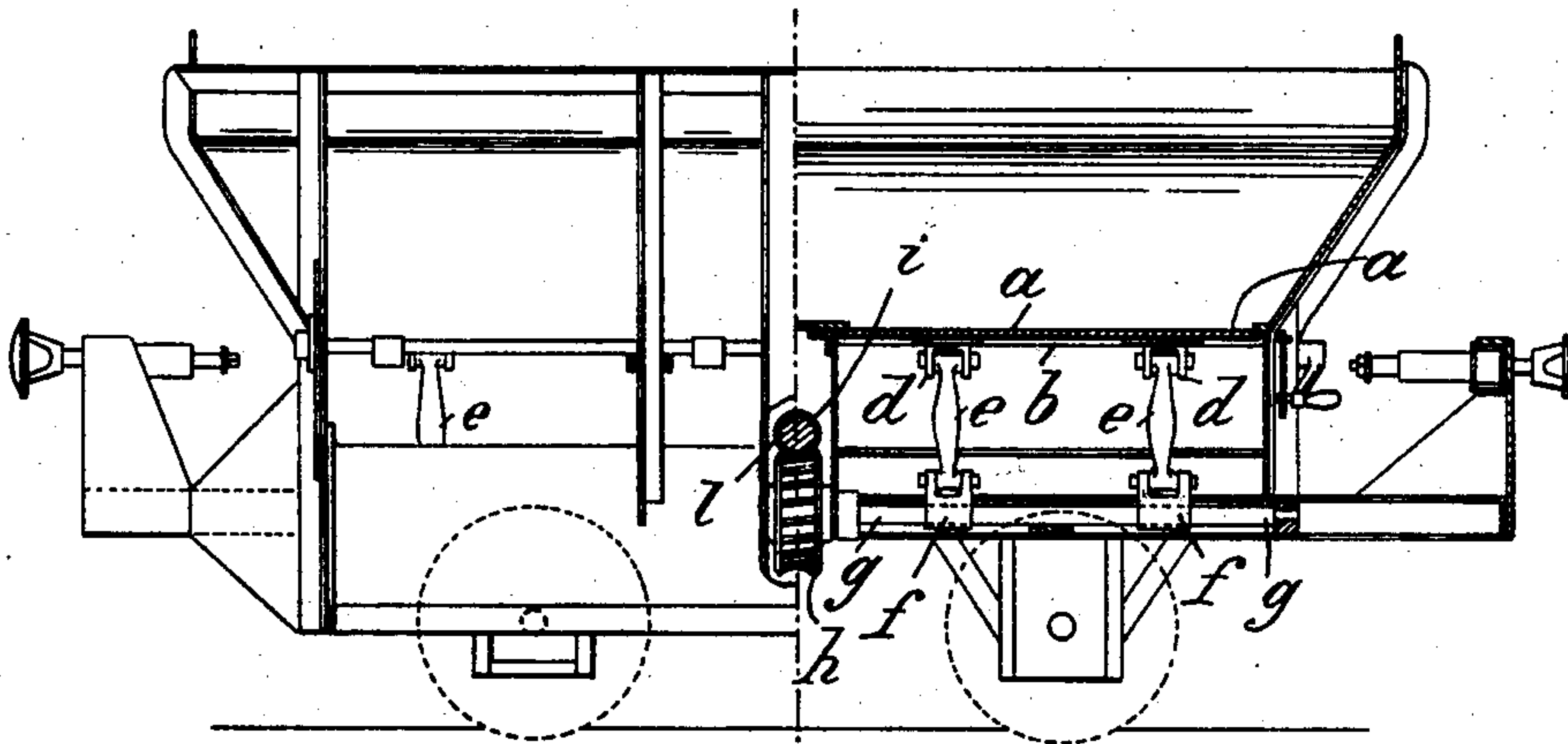
PATENTED SEPT. 29, 1903.

R. JONAS.  
DUMPING CAR.

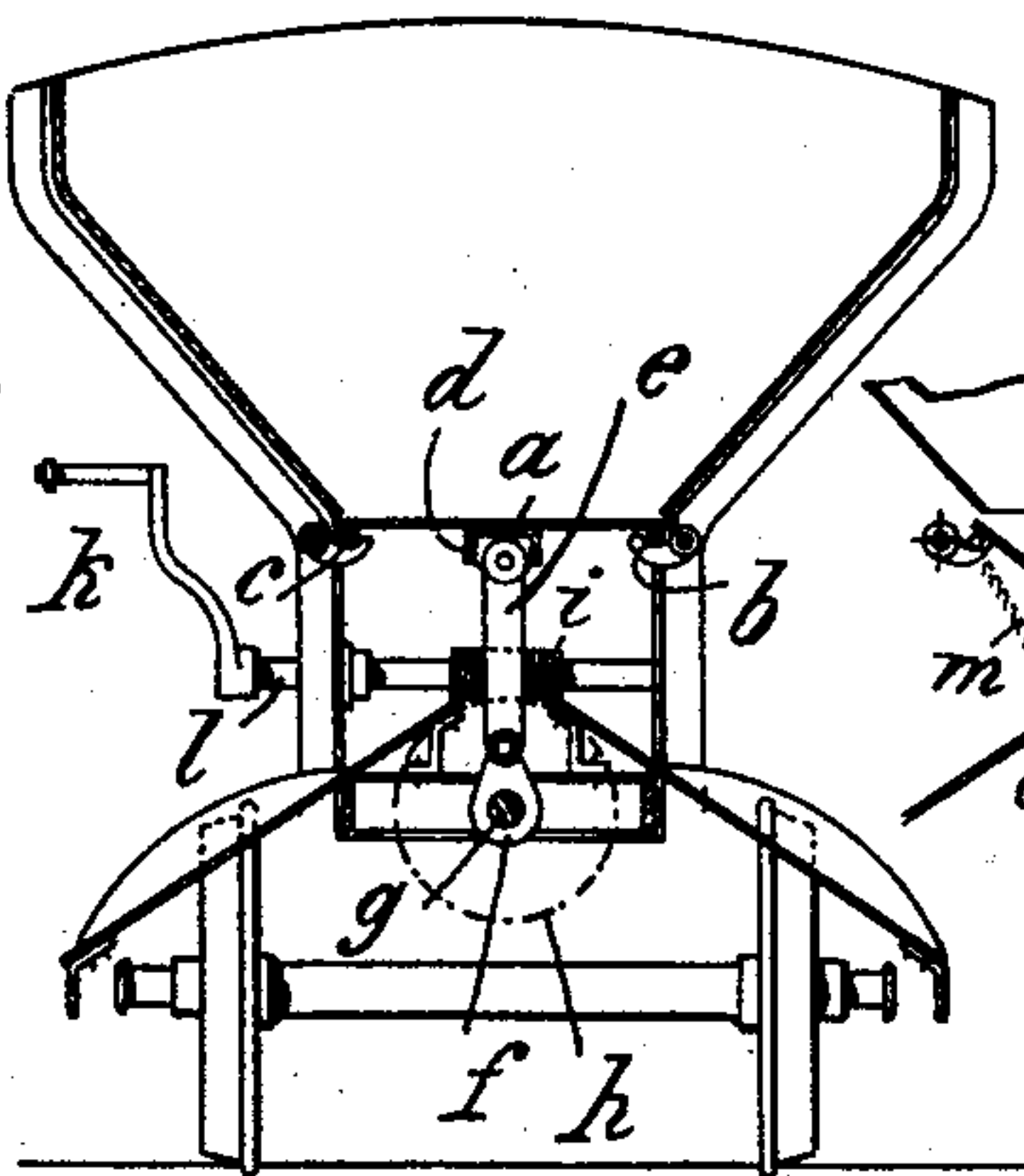
APPLICATION FILED MAR. 11, 1903.

NO MODEL.

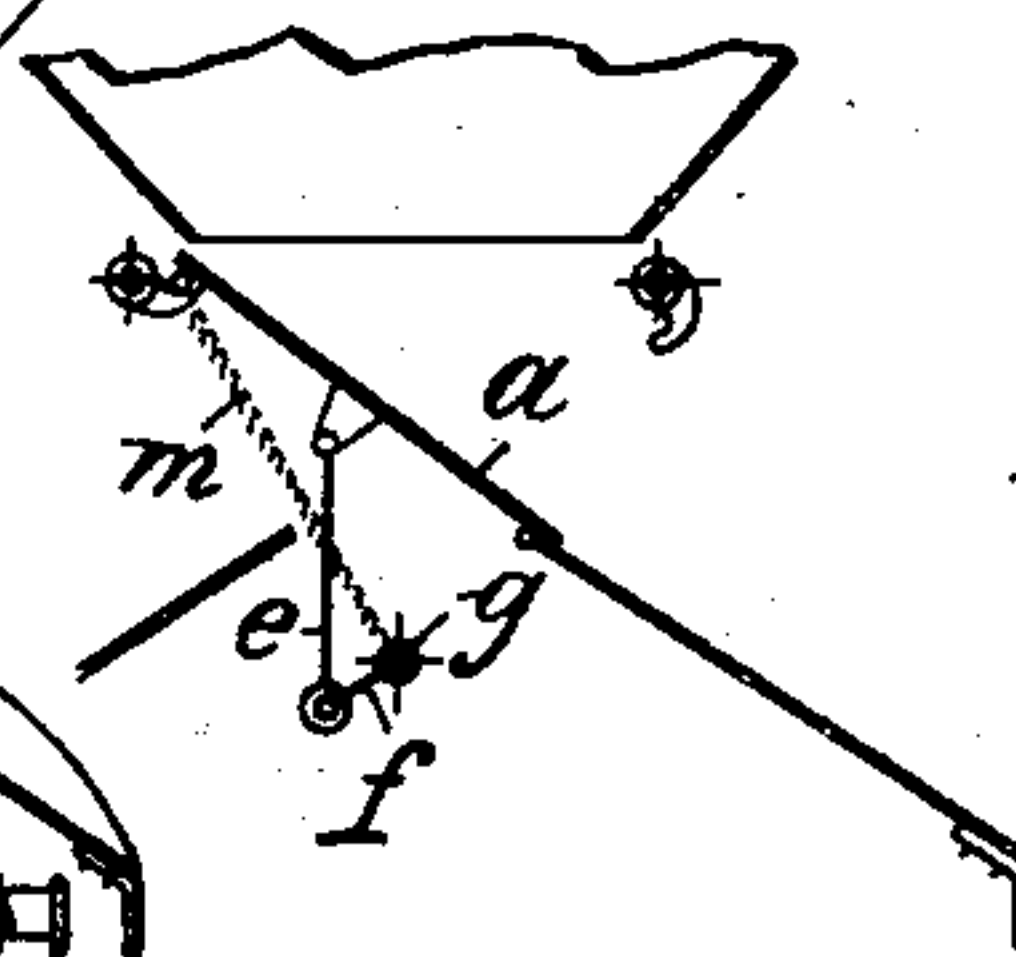
*Fig. 1*



*Fig. 2.*



*Fig. 3.*



WITNESSES

H. M. Kuehn  
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INVENTOR

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## UNITED STATES PATENT OFFICE.

RICHARD JONAS, OF BOCHUM, GERMANY.

## DUMPING-CAR.

SPECIFICATION forming part of Letters Patent No. 739,880, dated September 29, 1903.

Application filed March 11, 1903. Serial No. 147,343. (No model.)

To all whom it may concern:

Be it known that I, RICHARD JONAS, of Bochum, Germany, have invented certain new and useful Improvements in Dumping-Cars, of which the following is a full, clear, and exact specification.

The subject of my invention is a dumping-car the bed of which is movably arranged in peculiar manner. The bed opens downward as a flap at either side, the devices otherwise constituting closing means at the opposite side then serving as hinges for the flap. The bed is opened and closed mechanically, the bed being for this purpose provided along its center line with pivoted arms oscillating transversely of the axis of the car and actuated by a longitudinal shaft provided with cranks rotated by worm-gear.

One construction of car according to my invention is illustrated in the annexed drawings, in which—

Figure 1 shows a side elevation and half longitudinal section of a car. Fig. 2 is a cross-section through Fig. 1. Fig. 3 is a view showing diagrammatically the operation of the gear for opening the car-bed.

The bed *a* of the car consists of a plate of metal the sides of which are rounded over or otherwise formed so that they may be securely supported by the hooks *b c*. A sufficient number of these hooks are provided to insure of the bed being held tightly to the frame of the car, and, further, to insure of a firm hold for the hook when the bed on release from the hooks on one side turns in the hooks on the opposite side as on a hinge. The hooks on either side are turned to release the bottom *a* by means of a common shaft rotated by a crank-handle. In this manner the load can be shot out of the car on either side, as desired.

In order that the bed may be sunk or raised, forked brackets *d* are provided at the center, carrying pins on which turn the arms *e*. The other ends of these arms *e* are pivoted to cranks *f* on a shaft *g*, mounted in the under-frame of the car. The shaft *g* is rotated by means of a worm-wheel *h*, engaged by a worm *i*, keyed to a shaft *l*, rotated by a crank-handle *k*.

In the diagrammatic view, Fig. 3, the frame of the car is represented by the part marked *m*.

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

1. A dumping-car, comprising a movable bed, hooks pivotally secured to the frame and supporting the bed at either side, means for releasing the hooks on one side whereby the bed is free to turn as on a hinge in the hooks on the opposite side, and gear for positively raising and lowering the thus-hinged bed, said gear being positively connected to the bed, substantially as described.

2. A dumping-car, comprising a movable bed, hooks pivotally secured to the frame, and supporting the bed at either side, means for releasing the hooks on one side whereby the bed is free to turn as on a hinge in the hooks on the opposite side, a shaft mounted in the frame below the bed, cranks on said shaft, links pivoted above to the bed and below to the cranks, and means for rotating the shaft whereby the bed turning on the hooks at one side can be opened and closed, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

RICHARD JONAS.

Witnesses:

HENRY HASPER,  
HANS HEIMANN.