

No. 677,241.

Patented June 25, 1901.

S. E. KURTZ.
CAR LOADER.

(Application filed Mar. 8, 1901.)

(No Model.)

Fig 1

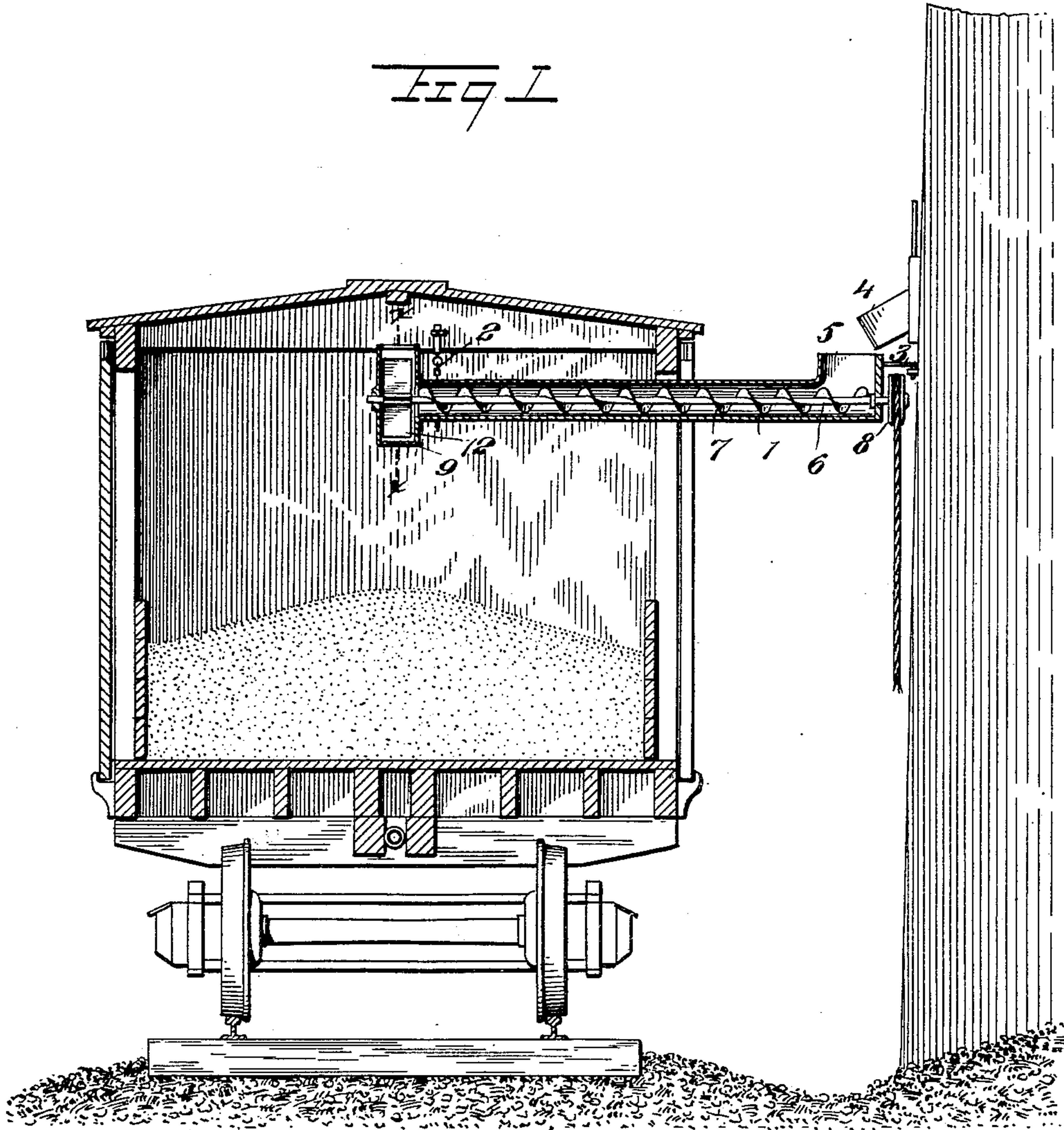
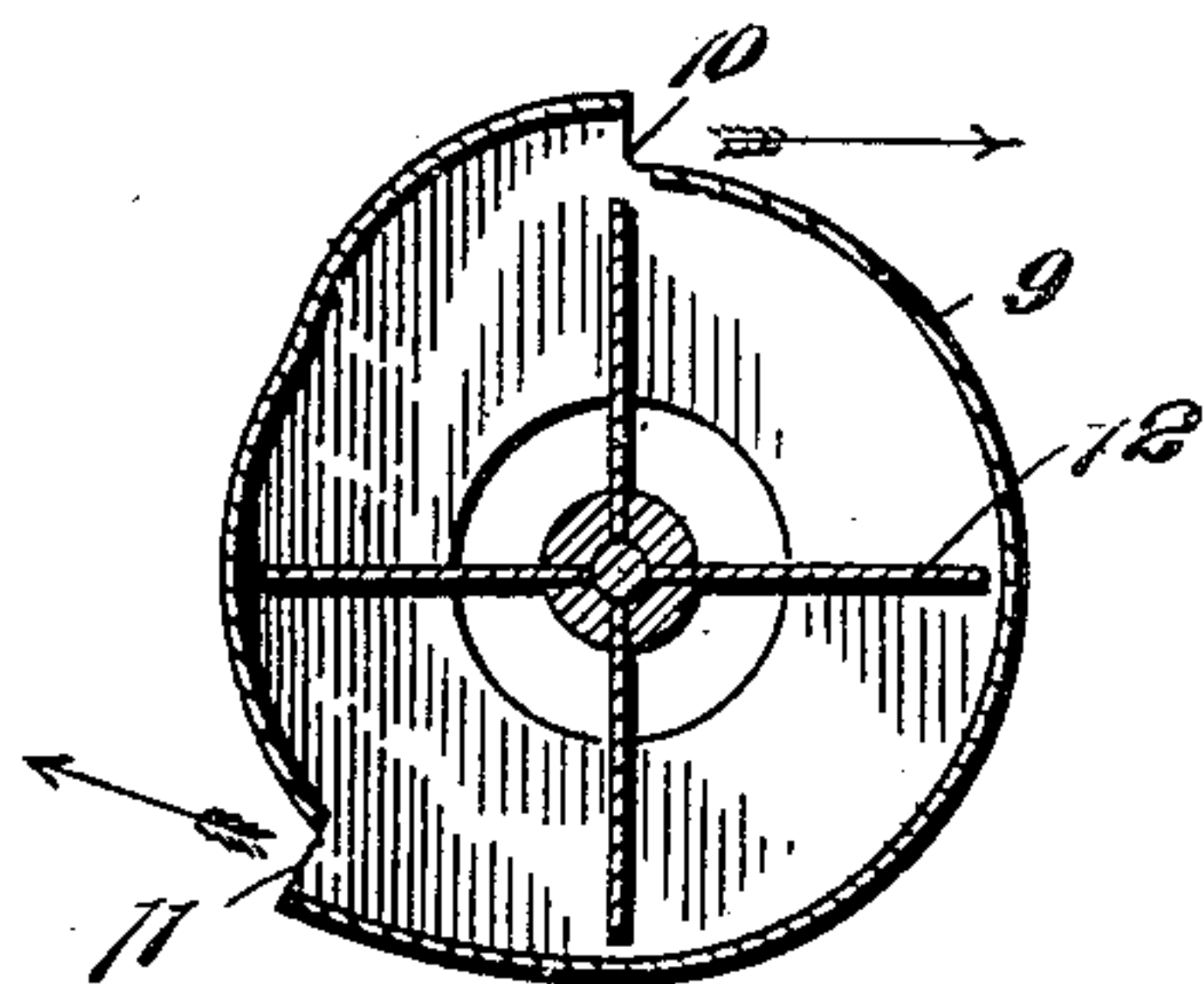


Fig 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL E. KURTZ, OF SAC CITY, IOWA, ASSIGNOR OF ONE-HALF TO
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CAR-LOADER.

SPECIFICATION forming part of Letters Patent No. 677,241, dated June 25, 1901.

Application filed March 8, 1901. Serial No. 50,314. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. KURTZ, a citizen of the United States, and a resident of Sac City, in the county of Sac and State of Iowa, have invented a new and Improved Car-Loader, of which the following is a full, clear, and exact description.

This invention relates to improvements in car-loaders; and the object is to provide a simple device for carrying grain or other material into a car and operating to simultaneously load or discharge material toward opposite ends of the car.

I will describe a car-loader embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional elevation of a car and a loader embodying my invention in connection therewith, and Fig. 2 is a section on the line *x x* of Fig. 1.

Referring to the drawings, 1 designates a conveyer-tube designed to be passed through the doorway of a car and suspended at its inner end from the roof of the car. I have shown it as suspended by means of a chain 2, connected to a rafter. The outer end may be supported from a building or a grain-elevator by a hook 3 or the like, and from the building or grain-elevator the material passes through a chute 4 into the hopper 5 at the outer end of the tube. Extended longitudinally through the tube is a shaft 6, on which is a screw conveyer 7, and this shaft may be rotated by any suitable means—such, for instance, as by a band engaging with a pulley 8 on the outer end of the shaft. The inner end of the tube communicates with a fan-casing 9, having opposite discharge-openings 10 and 11, which are designed to point toward opposite ends of the car, and mounted on the shaft 6 and operating in the fan-casing is a fan 12. Therefore it will be seen that the same power that operates the screw conveyer will operate the fan.

In operation the material passing into the hopper 5 will be carried along the conveyer-

tube by the screw and passed into the casing 9, and the rapid rotation of the fan will cause the material to be thrown out through the openings 10 and 11 toward opposite ends of the car.

A device embodying my invention will be made comparatively light, so that it can be readily handled for placing it in a car and removing it therefrom.

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

1. A car-loader, comprising a conveyer-tube closed on all its sides and having a fan-casing at one end, provided with opposite openings, a shaft extended through the tube, a screw conveyer on said shaft, a fan mounted on the shaft within the fan-casing, and means for suspending the tube from the roof of a car, substantially as specified.

2. A car-loader, comprising a conveyer-tube having a hopper at one end and a fan-casing at the opposite end, the said fan-casing being provided with opposite discharge-openings, a shaft extended through the tube and through said casing, a screw conveyer mounted on the shaft within the tube, a fan attached to the shaft within the casing, and means for suspending the inner end of the tube from the roof of a car, substantially as specified.

3. A car-loader, comprising a tube having a hopper at one end and a fan-casing at the other end, the said fan-casing having opposite openings through which material may discharge toward opposite ends of a car, a shaft extended through the tube and through the casing, a screw conveyer on said shaft within the tube, a fan on said shaft within the casing, a driving-pulley on the outer extended end of said shaft, and means for supporting the inner end of the loader from the roof of a car, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL E. KURTZ.

Witnesses:

PHIL. SCHALLER,
CARUSI A. PRATT.