L. O. COTTLE.

Improvement in Apparatus for Loading Cattle upon Cars.

No. 127,961. Patented June 18, 1872.

Fig. 1.

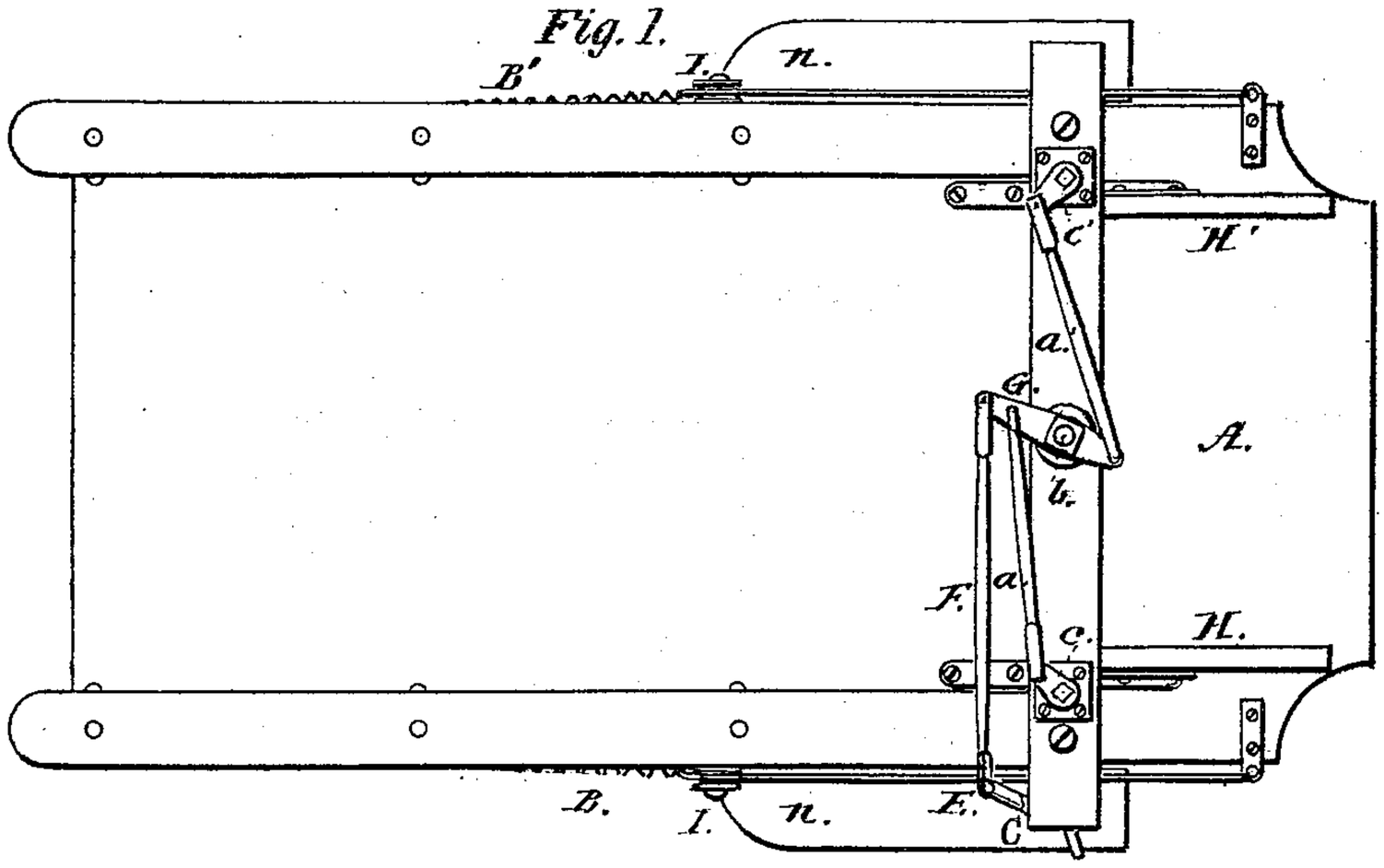


Fig. 2.

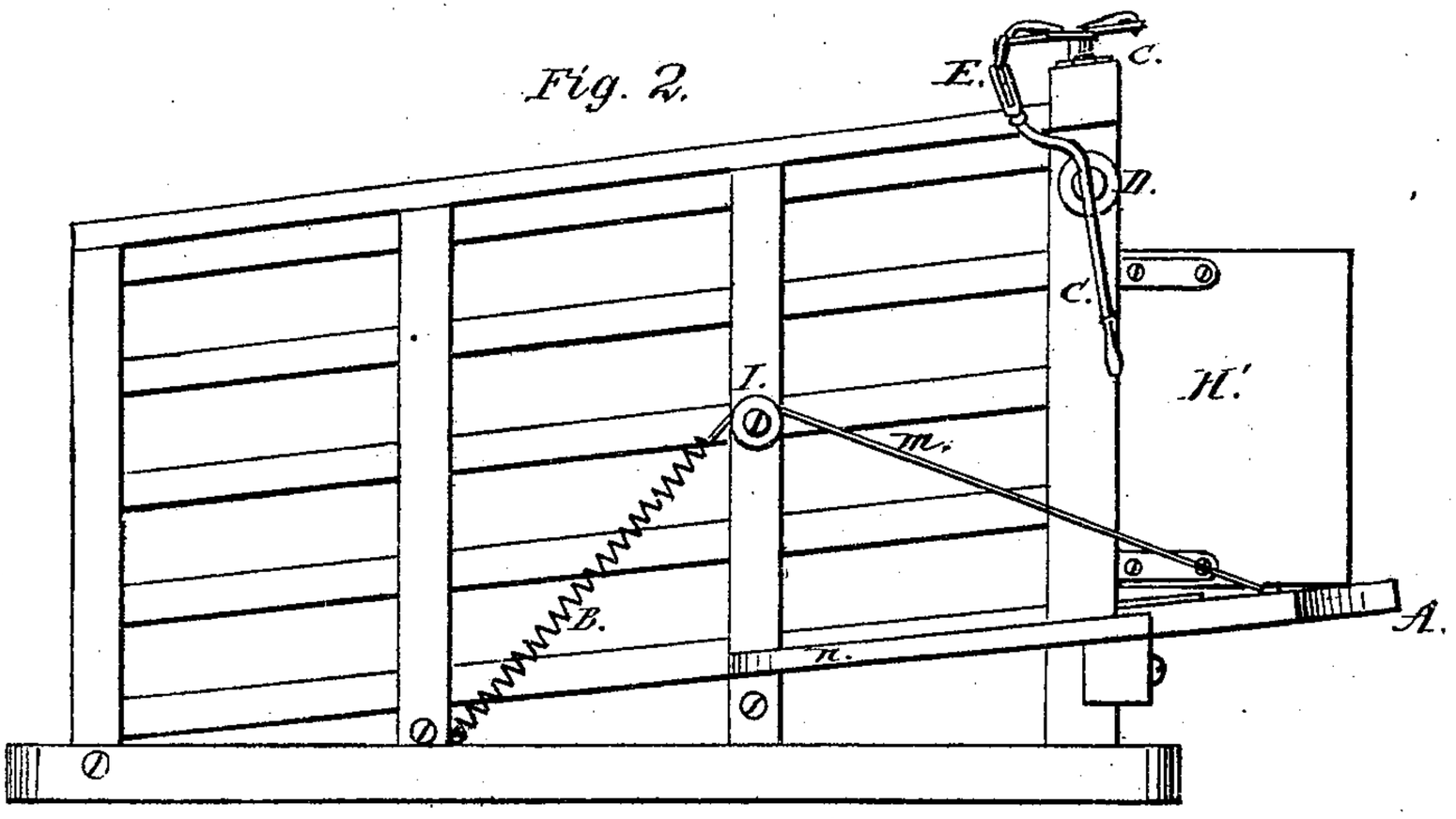
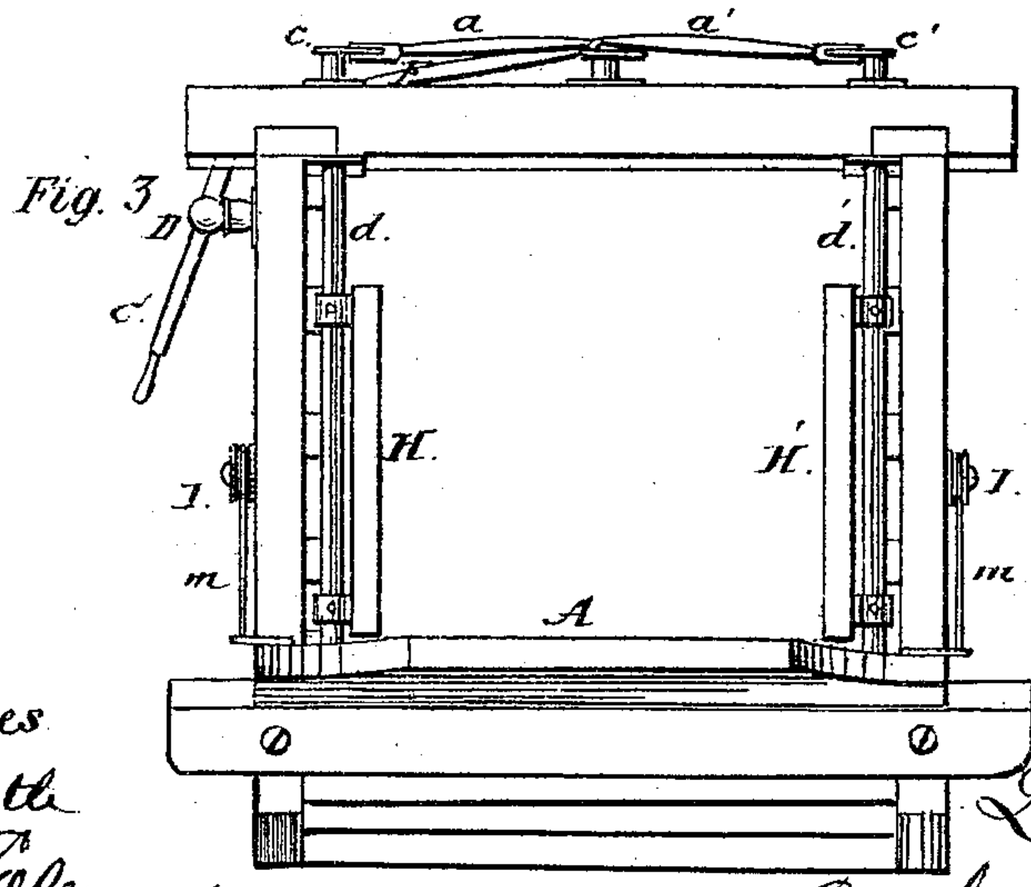


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

LUTE O. COTTLE, OF CEDAR RAPIDS, IOWA.

IMPROVEMENT IN APPARATUS FOR LOADING CATTLE UPON CARS.

Specification forming part of Letters Patent No. 127,961, dated June 18, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, LUTE O. COTTLE, of Cedar Rapids, Linn county, and State of Iowa, have invented a new and useful Apparatus for Loading and Unloading Live Stock; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing with the letters of reference marked thereon.

This invention relates to an improvement in chutes for live stock; and consists in the arrangement of the doors and platform, operated by rods, levers, chains, and pulleys, as will be more fully explained in the general description and mode of operation, reference being had to the accompanying drawing, in which—

Figure 1 is a plan view of the chute. Fig. 2 is a side elevation of the same. Fig. 3 is a front view, showing the doors open and the platform down.

A is the platform in front of the chute. H H′ are the doors on either side of the exit. *d d′* are the vertical rods, to which the doors H H′ are secured. *c c′* are the cranks on the top of the rods *d d′*. *a a′* are the horizontal rods extending from the cranks *c c′* to the rock-lever G. F is the rod extending horizontally toward the short arm of the hand-lever C, and connected with the same at E. The hand-lever C has its fulcrum at D, and is secured to the corner-post of the chute. I is the friction-pulley, over which passes a chain or rope, *m*, connected with this rope or chain and the bottom sill of the chute, is a spring, B, which acts upon the platform in front. *n n* are small platforms on the sides of the chutes for standing upon while opening the doors. The hand-lever may be shifted to either side, as may be desirable, or there may be one on each side, if deemed convenient. A body, of the usual form, is constructed with a view to strength and durability, and has connected with it the apparatus above described for operating the doors and platform, which platform is hinged to the front sill of the chute. Chains or stout ropes are connected to the platform and carried over pulleys on the side, and attached to springs which are fastened to the chute. These springs keep the platform drawn up, unless it is kept down by force.

To operate this apparatus, pull down the platform A, overcoming the resistance of the springs, draw forward the short arm of the hand-lever, thus throwing back the bar F and turning the rock-lever G. The arms operate the cranks on the ends of the rods *d d′*, which, being turned, the doors H H′ are swung outwardly over the platform and hold it in its place while being used. When not thus in use, by reversing the operation the doors are closed, the platform is raised by the action of the springs, and confines the doors to their proper position.

Having fully described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States, is—

The combination of the platform A, spring, and chain or cord, with the hinged doors H H′ operated by means of levers and rods, all constructed and operating substantially as and for the purpose described.

LUTE O. COTTLE.

Witnesses:

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