

(No Model.)

C. W. BISHOP.

DEVICE FOR ATTACHING MILK CANS TO WAGONS.

No. 329,431.

Patented Nov. 3, 1885.

Fig. 1.

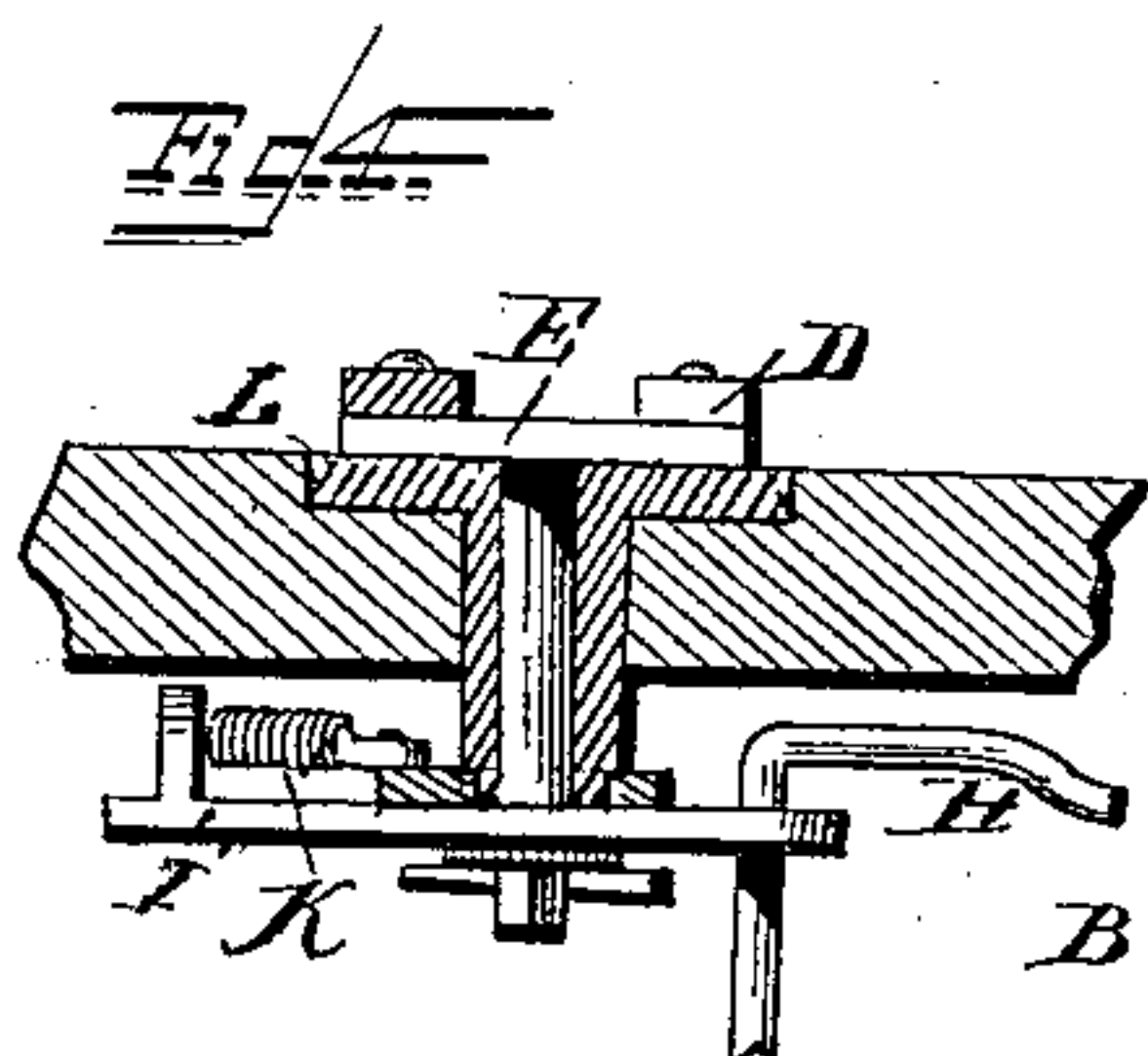
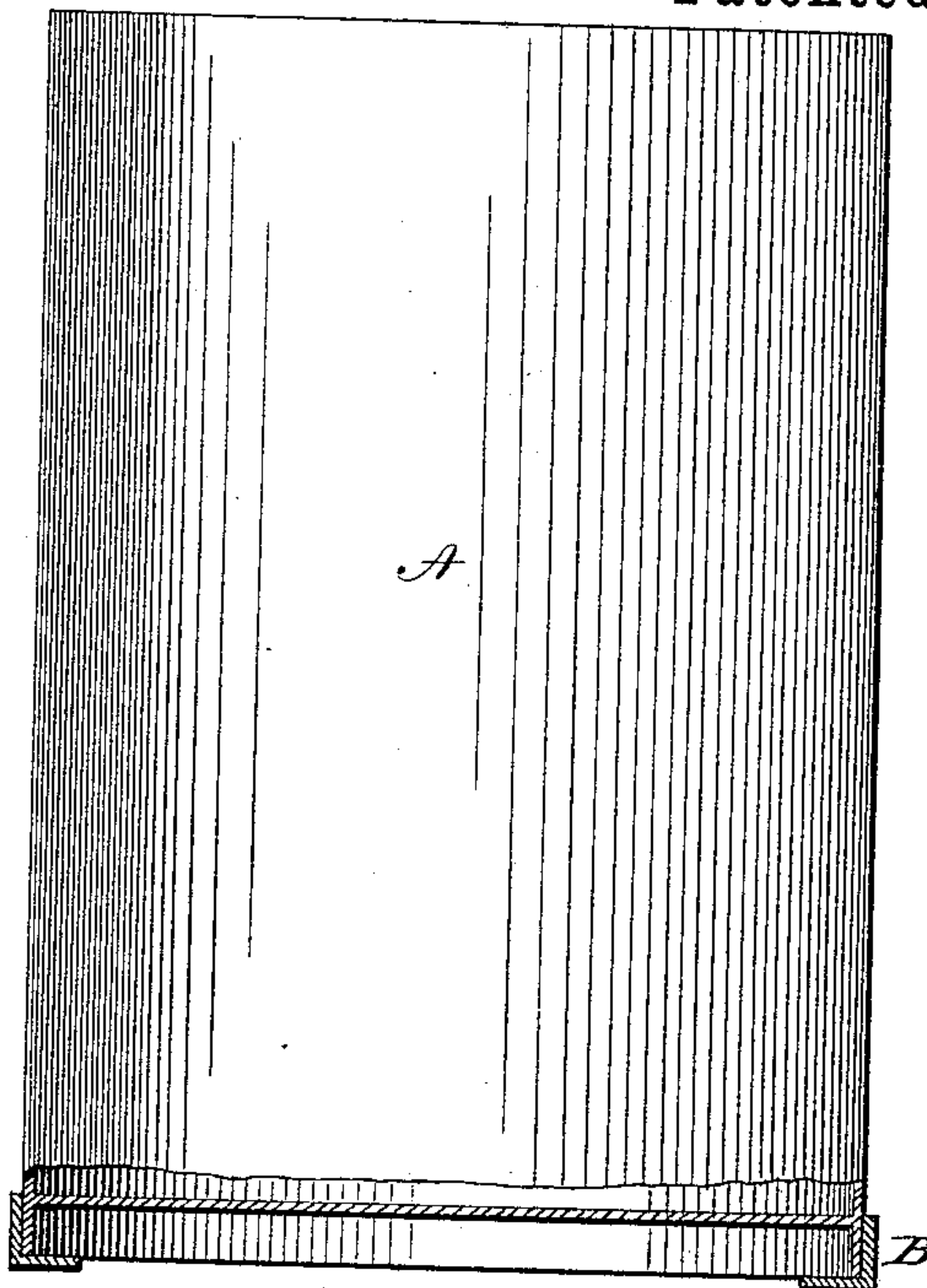


Fig. 5.

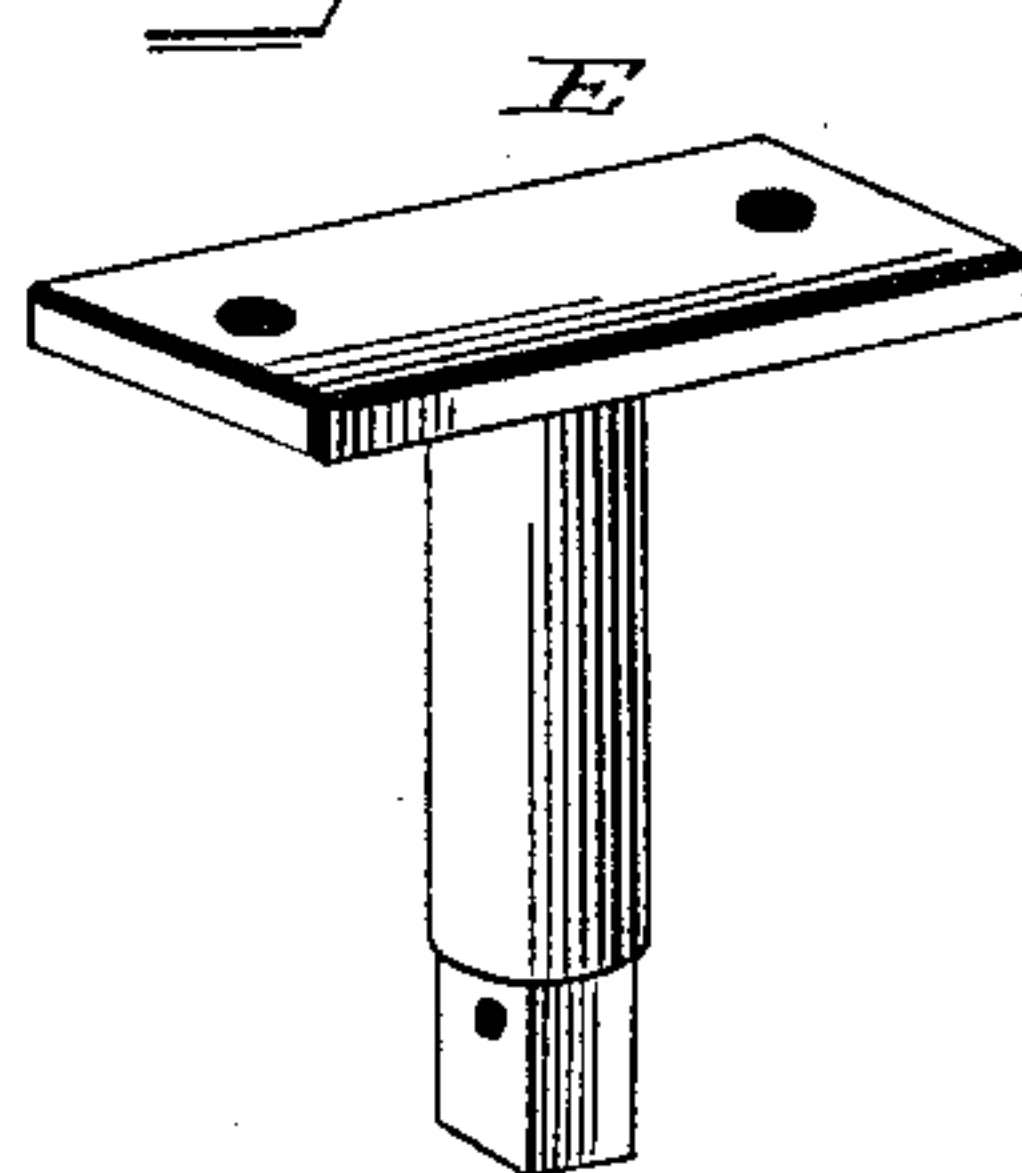


Fig. 2.

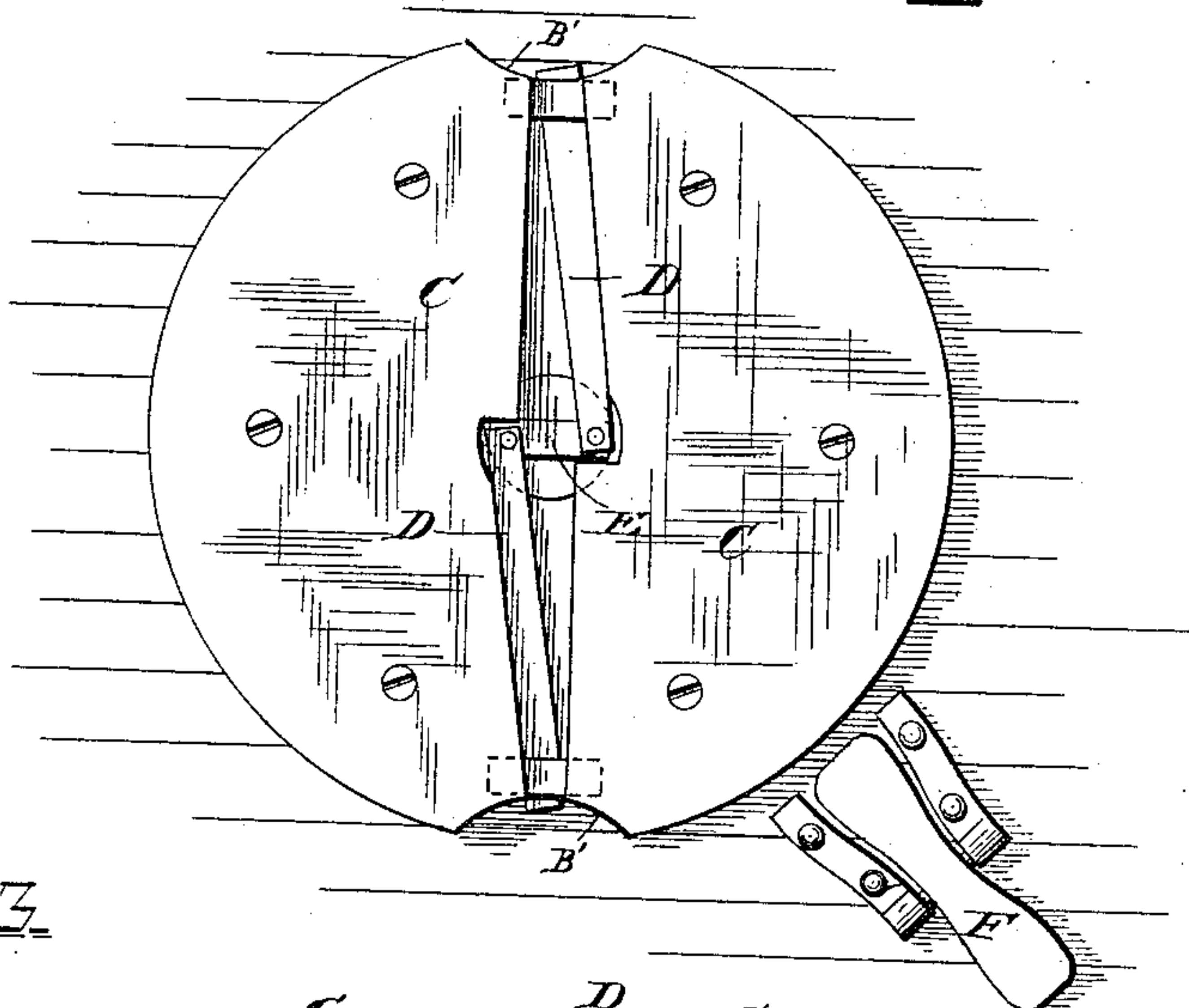
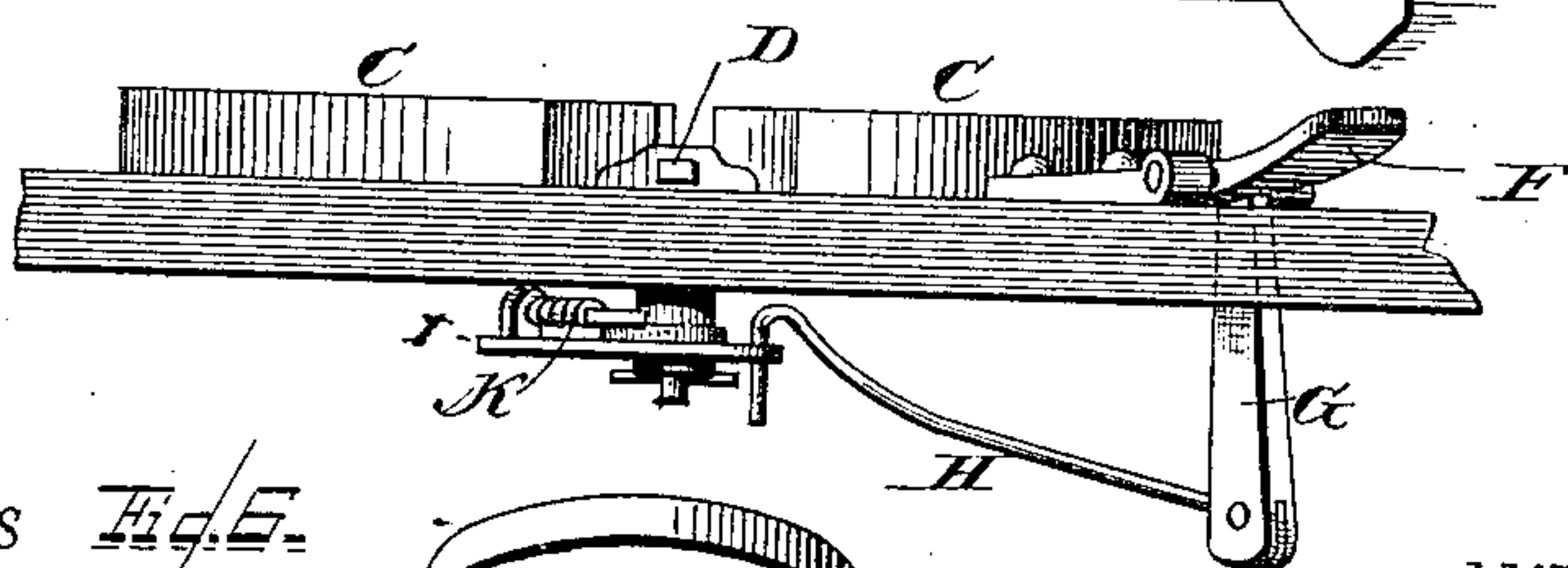
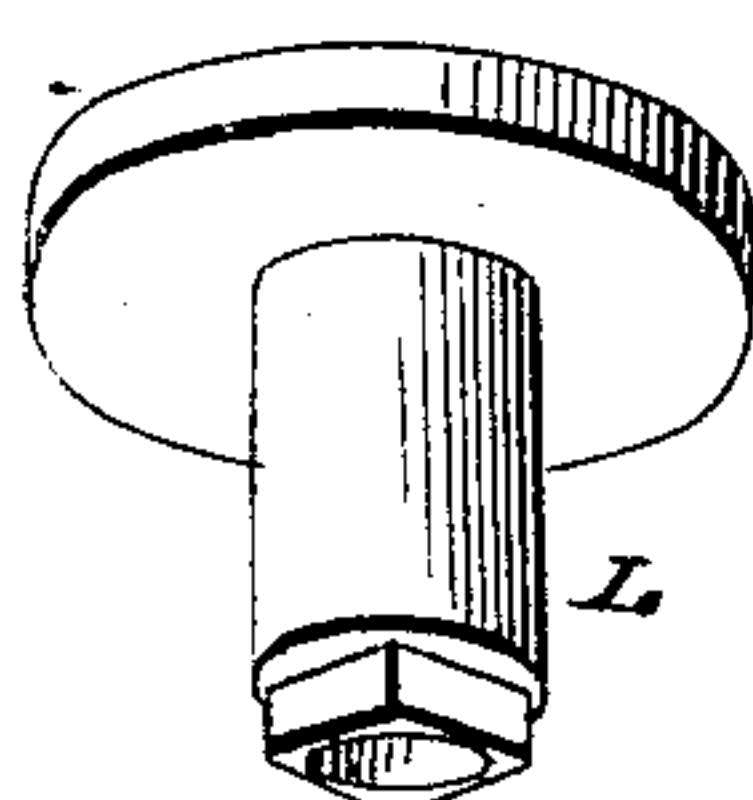


Fig. 3.



WITNESSES Fig. 6.

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DEVICE FOR ATTACHING MILK-CANS TO WAGONS.

SPECIFICATION forming part of Letters Patent No. 329,431, dated November 3, 1885.

Application filed May 6, 1885. Serial No. 164,620. (No model.)

To all whom it may concern:

Be it known that I, CALVIN W. BISHOP, a citizen of the United States, residing at Verona, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Attaching Milk-Cans to Wagons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings.

In country districts where cheese and butter factories offer the most convenient means of disposing of milk the farmers are in the habit of loading their milk-cans into their wagons and fastening them therein by means of a rope or strap passed through the handle and attached to the wagon. This method is insecure and inconvenient; and the object of my invention is to furnish an improved means for fastening and holding milk-cans to wagons so that they may be securely and instantly attached and detached, with no chance of jarring loose by the motion of the vehicle over rough roads.

In the first place, I use a can having a recessed bottom—that is, the bottom of the can should be an inch or so above the rim or edge upon which the can stands, as shown in the can A, Figure 1, and the rim should be provided with two lugs, B B, with inward-projecting lips, or the rim should be perforated to receive the ends of the retaining-bolts. No other attachments to the can are necessary. On the bottom of the wagon I place a round plate of wood, C C, Fig. 2, just fitting within the bottom of the can, and having recesses B' B' to receive the lugs B B. Across the center of this plate pass two bolts, D D, projected and retracted by the rotation of the central arm, E.

F is a foot-pedal operating the bolts D D by means of connections shown in Figs. 3, 4, 5, and 6. The pedal is double, with its two parts not lying in the same plane, but making an

obtuse angle with each other, so that one resting on the floor will lock the bolts, and the other, when pressed, in its turn will unlock them. The connections between pedal and locking-bolts are shown in Figs. 3, 4, 5, and 6. To the pedal F are attached the arm G and connecting-rod H. The lever I is fixed to the bolt-arm E, Figs. 2, 4, and 5. A spiral spring, K, pressing against the lever I, from a fixed nut on the square end of socket L, Figs. 4 and 6, serves to retain it either open or closed to prevent the bolts moving under the motion of the vehicle.

The application of my device is very simple. A can, A, is placed on the floor of the wagon around the wooden plate C, the foot is placed on the pedal F and one end pressed down to project the bolts, which engage with the lugs on the can-bottom or enter slots cut therein, and effectually retain the can in place. The reversal of this operation detaches it.

I am aware that this double toggle-joint lock is old, and that it has been used when operated by a wrench to lock on the cover of a can; but,

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

1. The combination of a milk-can, a round retaining-plate attached to the transporting-vehicle and fitting within the bottom rim thereof, the locking-bolts, the vibrating arm connecting them, the operating-pedal, and the lever and rod connecting the pedal and locking-bolts, substantially as described.

2. The combination of the can A, plates C C, locking-bolts D D, vibrating arm E, lever I, connecting-rod H, and pedal G, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CALVIN WATSON BISHOP.

Witnesses:

E. A. GROVES,
T. B. BISHOP.