

(No Model.)

B. L. BYERS.
END GATE FOR WAGONS.

No. 304,168.

Patented Aug. 26, 1884.

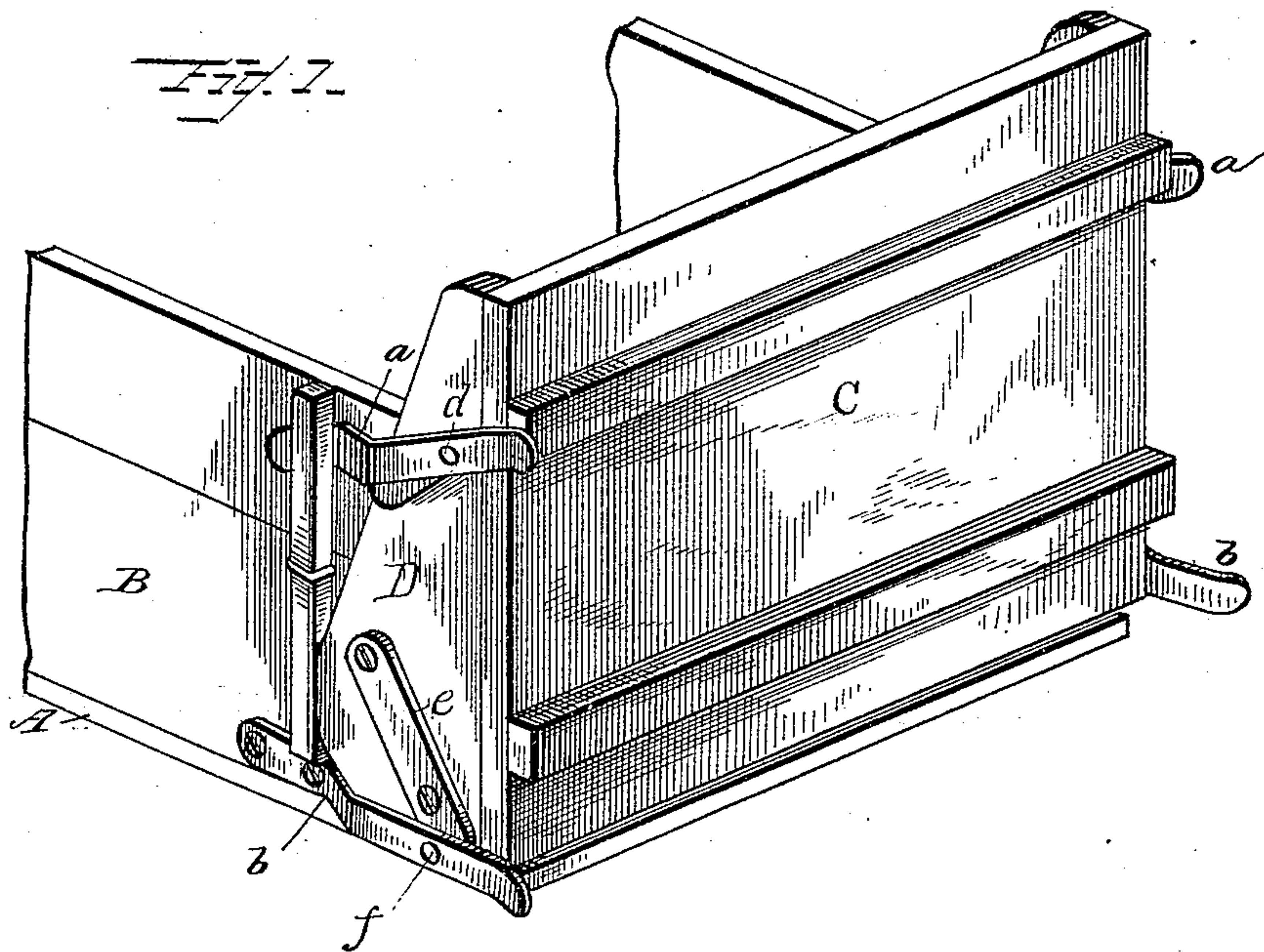
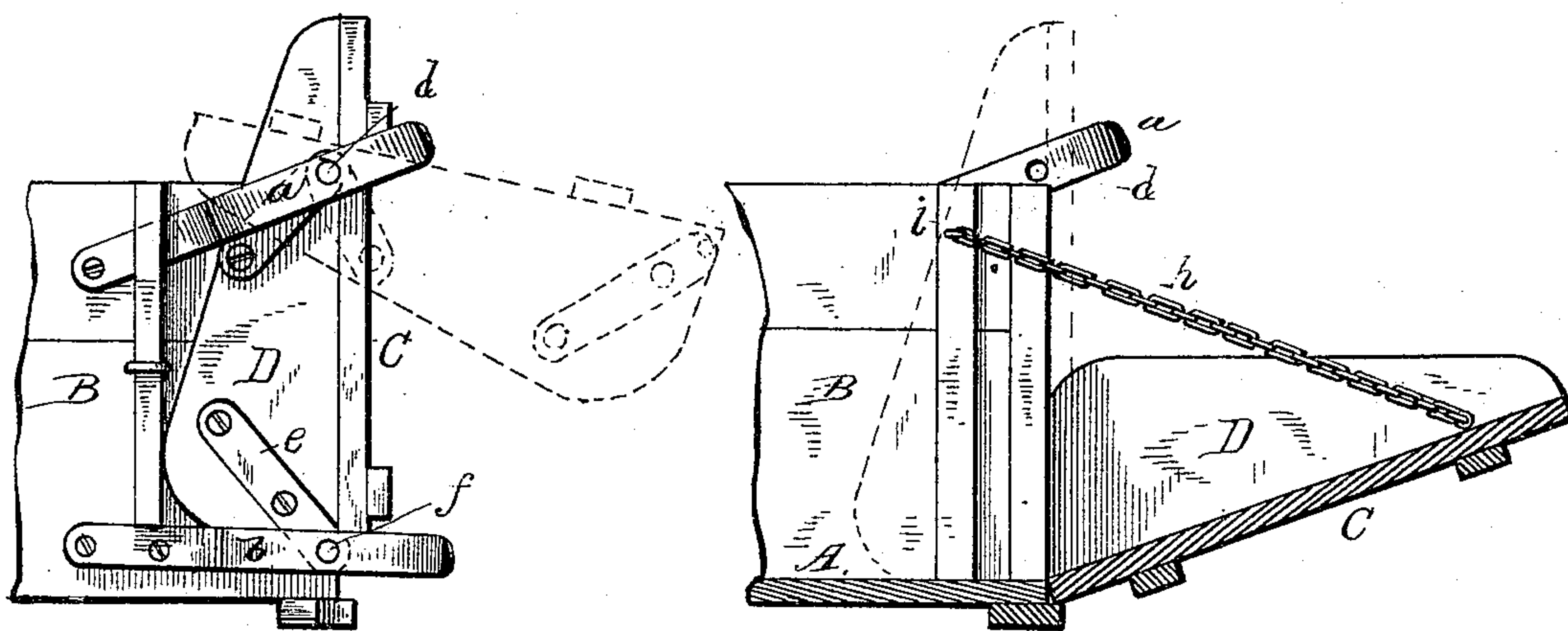


Fig. 1.

Fig. 2.



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END-GATE FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 304,168, dated August 26, 1884.

Application filed May 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, BERNARDO L. BYERS, a citizen of the United States of America, residing at Malvern, in the county of Mills and State of Iowa, have invented certain new and useful Improvements in End-Gates for 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, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to end-gates for wagons; and it consists in the improvements hereinafter described, whereby the gate may be readily adjusted to present either a scoop or permit the dumping of the contents of the wagon-body.

In the accompanying drawings, Figure 1 is a perspective view of an end-gate embodying my invention. Fig. 2 is a side view of Fig. 1, the position of the gate for dumping being indicated by dotted lines; and Fig. 3, another side view, the gate being adjusted to present a scoop.

A represents the bottom, and B the sides, of the wagon-body, the latter having secured on their outer faces and at the top and bottom, near their rear ends, bent horizontal arms, *a b*. The said arms *a b* are secured at one end by securing-bolts, and are preferably constructed of metal, so that the bent portions of the same will be capable of a slight yielding movement. The ends of the bent portions of the arms are each provided with a perforation, *d*.

C refers to the end-gate, which is provided at each side with a flange-section, D, secured at right angles to the end-gate, and, when said board is in position, bear against the outer faces of the sides B. Each flange portion D has bolted on its outer side, and near the top and bottom of the same, a bar, *e*, terminating at one end in a projecting lug or boss, *f*. When the gate C is placed in its normal position, the bent portions of the arms *a b* embrace

the flange portions D of the gate, thus causing the lugs *f* to enter the perforations *c* in the arms *a b*, thereby retaining the end-gate in position. By disengaging the upper arms, *a*, from the upper lugs *f* the end-gate may be moved outward on the pivotal connection presented by the lower lugs *f* and arms *b*, so as to present a scoop-board, as shown in Fig. 3. If, instead of the foregoing, the lower lugs *f* be disengaged from the arms *b* and the gate be moved outward on the pivotal connection afforded by the upper lug *f*, the gate will be adjusted for dumping, as indicated by the dotted lines, Fig. 2.

From the foregoing it will be apparent that the end-gate herein described is of simple and durable construction and effective in operation. Chains *h* may be connected to the end-gate for engaging staples *i* on the wagon-body, to brace the gate when used as a scoop.

I claim—

1. The combination, in an end-gate, of a gate and devices independent of each other, secured on the sides of the body and adapted to pivotally hold the upper and lower portions of the gate, said upper and lower connections being adapted to be disengaged independent of each other, to permit said gate to swing outward on either of said connections, substantially as set forth.

2. The combination, in an end-gate, of a gate provided at each side with upper and lower lugs or projections, and upper and lower spring-plates secured to the sides of the body and perforated for the engagement of the said lugs, substantially as set forth.

3. The combination, in an end-gate, of a gate provided with the flange-sections D, carrying the bars *e*, provided with lugs *f*, bent spring-arms *a b*, secured to the side of the body and perforated for the engagement of the lugs *f*, and chains *h* and staples *i*, substantially as set forth.

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

BERNARDO L. BYERS.

Witnesses:

W. W. WILLS,
J. E. NEIMAN.