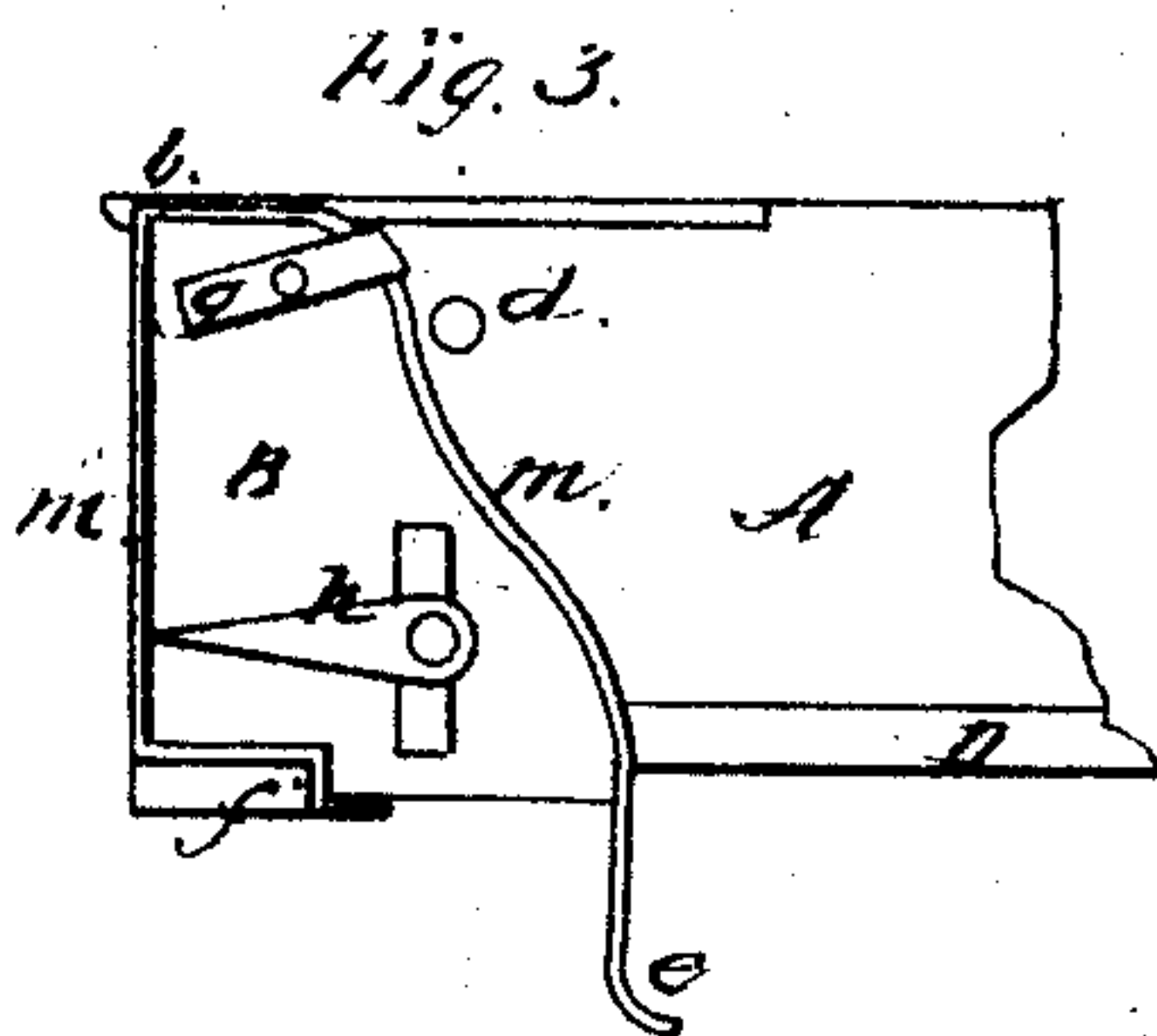
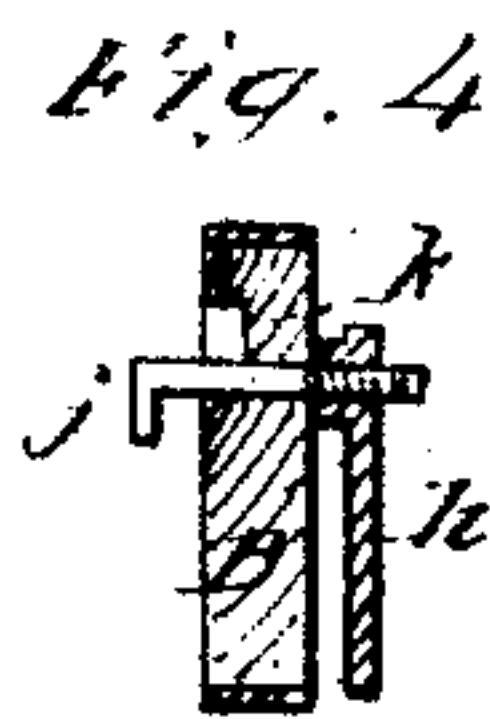
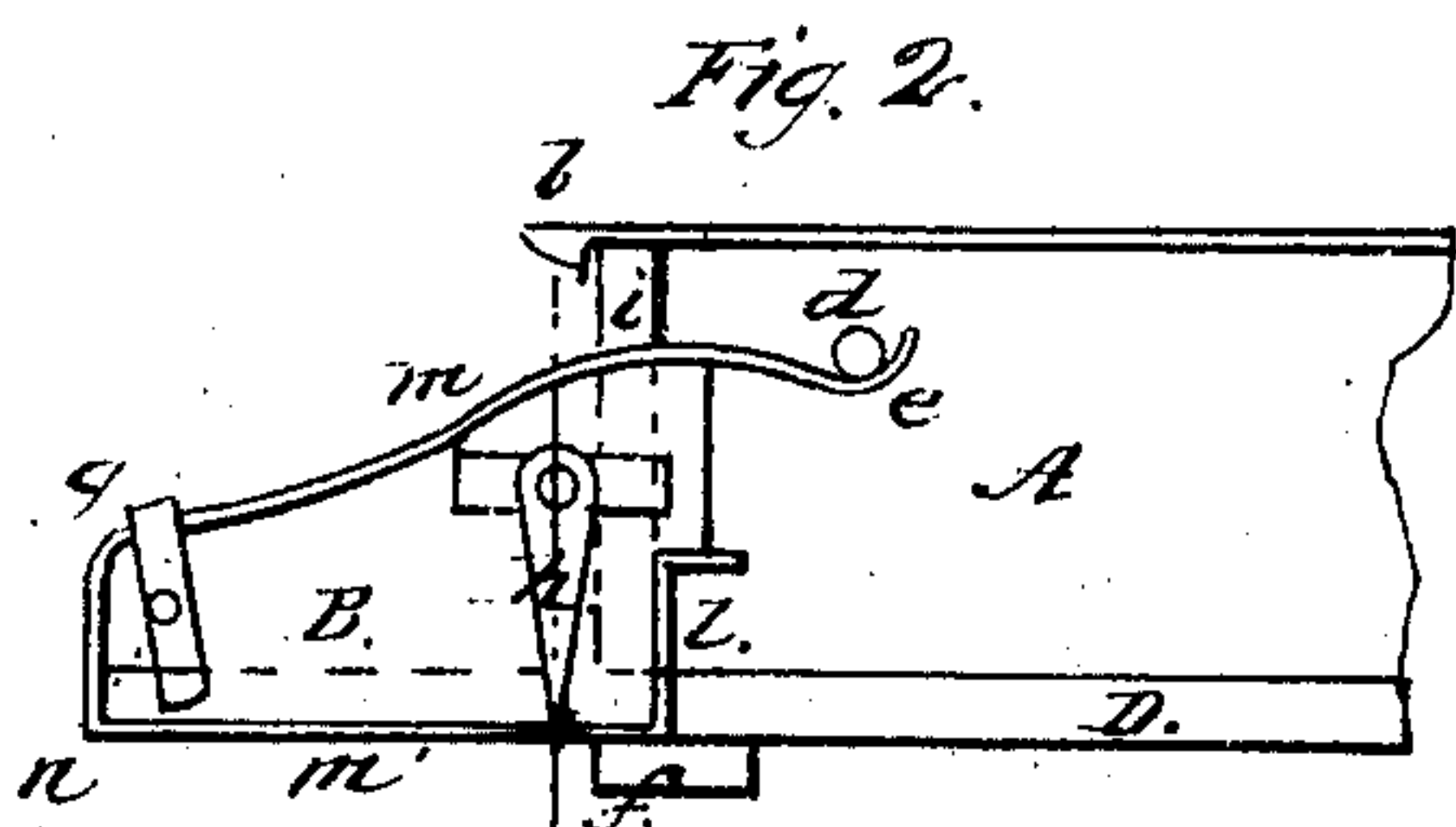
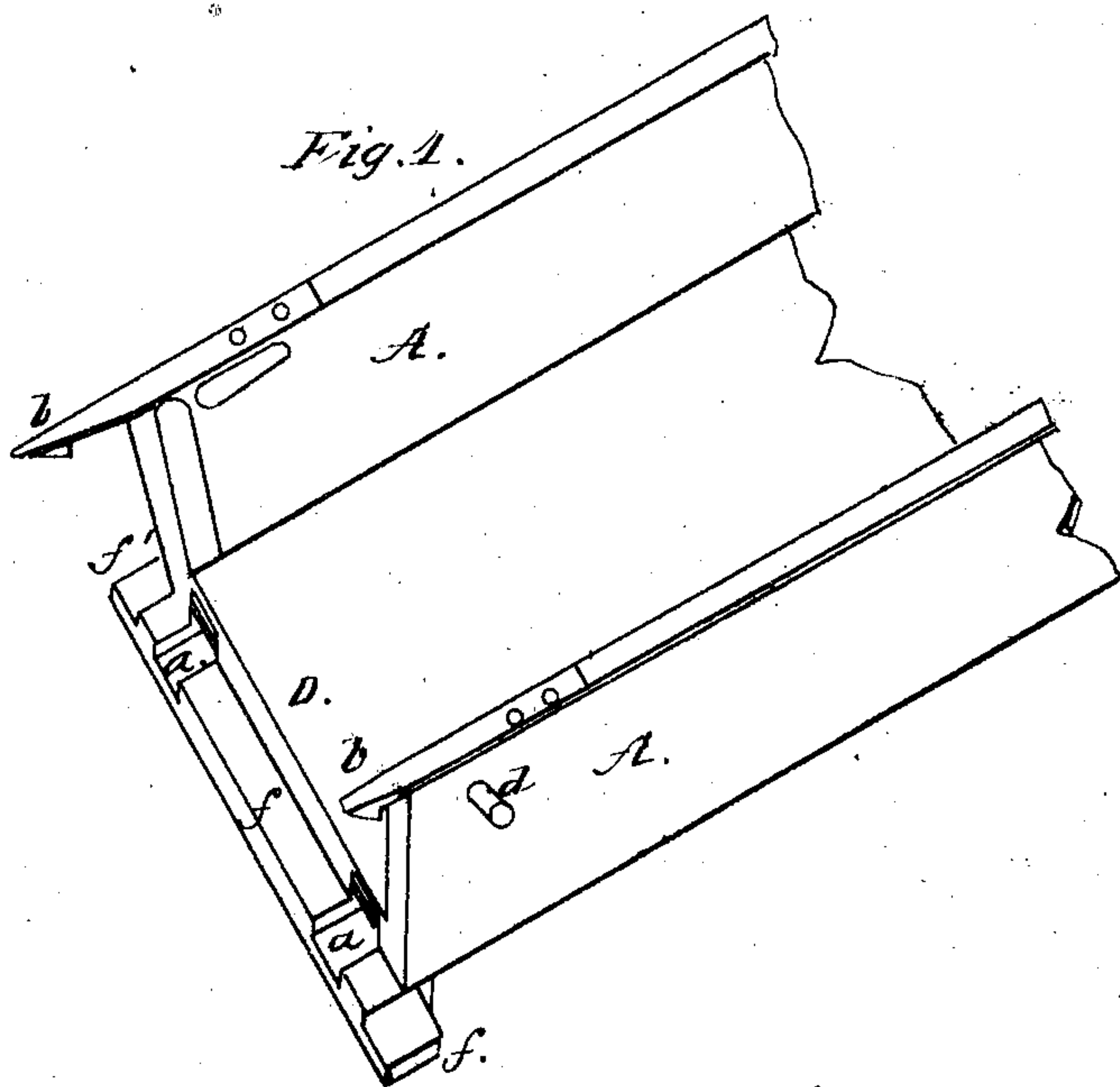


E. S. Miller.

End-Gate for Wagons.

N^o 76095

Patented Mar. 31, 1868.



Attest;
W. C. Ashkutez
J. A. Fraser

Inventor;
E. S. Miller
per Munnif &
attorneys.

United States Patent Office.

ENOS S. MILLER, OF BALTIMORE, OHIO.

Letters Patent No. 76,095, dated March 31, 1868.

IMPROVEMENT IN END-GATE FOR WAGONS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ENOS S. MILLER, of Baltimore, in the county of Fairfield, and State of Ohio, have invented a new and improved End-Gate for Wagons; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a perspective view of the rear end of the wagon-box, showing the spring-catches and slotted rest-bar.

Figure 2 is a side view of the end of the wagon-box, with the end-gate adjusted to serve as a feed-trough.

Figure 3 is a similar view, but having the end-gate locked for travel.

Figure 4 is a detail view of the hook and nut.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide an end-gate for a wagon-box, which shall serve both as an end-gate and a feed-trough, as occasion may demand.

In the accompanying plate of drawings, the wagon-box is shown at A. B is one end of the gate, which, with a similar one, is affixed by nails or otherwise to the gate-board, which latter is indicated by the horizontal dotted line continuous with the line of the bottom, D, of the wagon-box. Affixed to the end of the bottom, D, is the rest-bar *f*, having slots *a* and projecting ends *f'*.

When the end-gate is converted into a feed-trough, the hook *e*, which is the projecting end of the metallic strap *m m'*, catches under a pin, *d*, as shown, the end, B, resting on the projecting end *f'*, as shown. The end-gate and its ends B form part of the trough, which latter is completed by the board *i*, and another narrower though otherwise similar one fitting into slots in each of the ends B. The board *i* is held by the catches *b* and hooks on the bottom of the trough, the slots *a a*, in the rest-bar *f*, being for the purpose of receiving the plates bearing these said hooks. The outer and narrower board fits in vertical slots, as indicated by the dotted line *n*. This latter board is held in place by a button, *g*, the flanged end of which can be brought over the ends of the last board to hold it in place.

When the end-gate is to be used simply as a gate or tail-board for the box A, the board *i* and its corresponding one are removed and placed in the wagon. The end-gate is then attached, as shown at fig. 3. The notches *l* in the ends B rest on the projecting ends *f'*, as shown, and the spring-catches *b* hold the end-gate firmly in place. At fig. 4 is shown a hook-device for attaching auxiliary chains to give additional support, if required, when the end-gate is used as a feed-trough. The hooks *j* hold the ends of the chains, the other ends of which are affixed to points on the wagon-box. The hooks are provided with plates *h* for tightening the hold on the chains. When the end-gate is used as its name imports, the hooks are drawn into the recesses *h*, so that they shall not prevent the ends B from slipping on the wagon-box. Only one end and side are shown at figs. 1, 2, and 3, but, as each part there shown is duplicated at the opposite end of the trough or end-gate, they have been described in the plural number.

I claim as new, and desire to secure by Letters Patent—

The combined gate and feed-trough, constructed as described, and consisting of the bottom, *m'*, having end-pieces B adapted to receive pieces *i n*, and provided with buttons *g* and hooks *h j*, when said pieces B are notched at *l* to fit over projections *f'* of the slotted rest-bar *f*, and are furnished with spring-hooks *e*, which catch under pins *d* fixed in the sides A of the wagon-body, all arranged and operating as described for the purpose set forth.

The above specification of my invention signed by me, this 24th day of January, 1868.

E. S. MILLER.

Witnesses:

A. T. MASON,
JOHN W. EMCH.