

No. 773,776.

PATENTED NOV. 1, 1904.

R. W. BARBER.

END GATE.

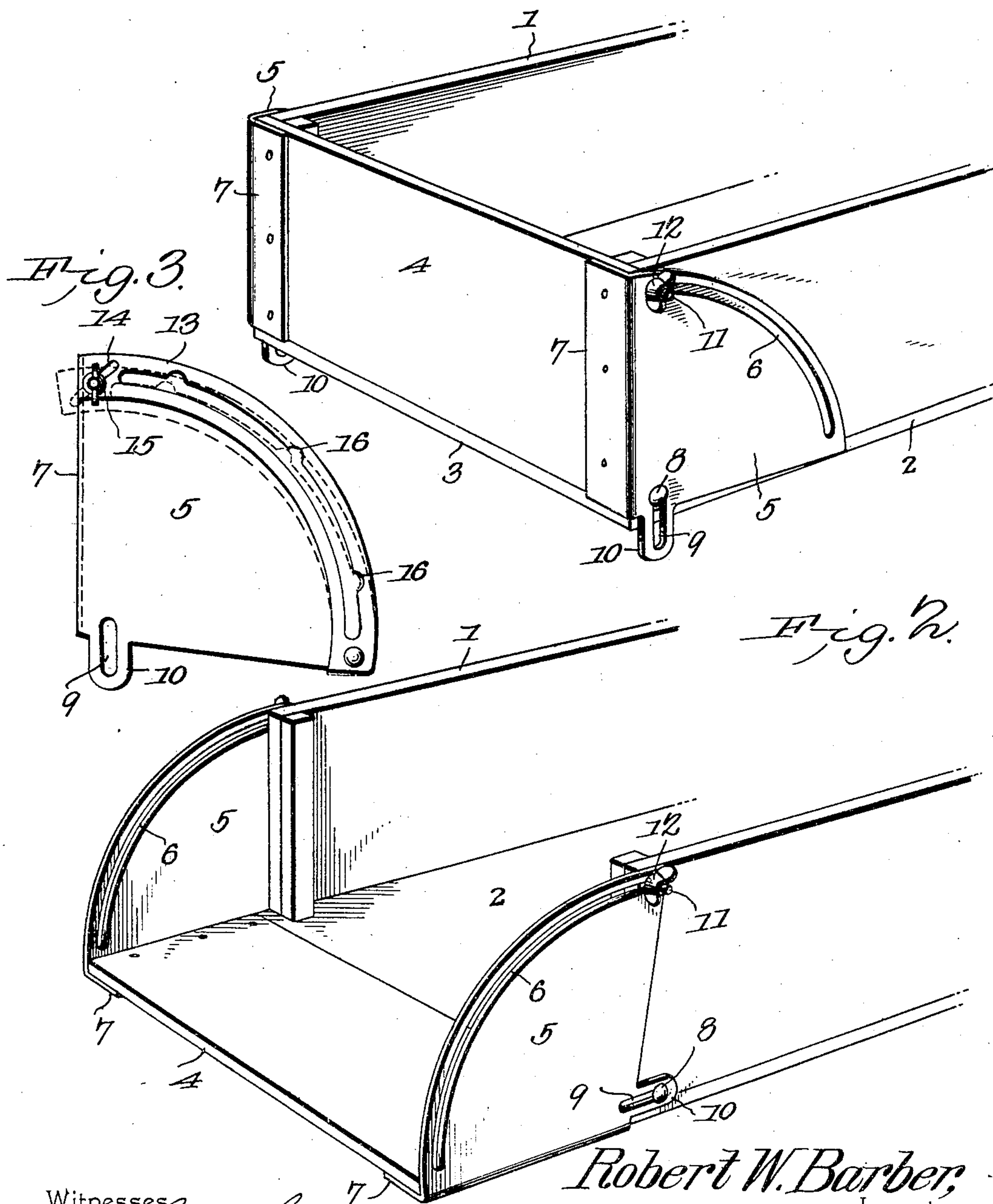
APPLICATION FILED MAR. 15, 1904.

NO MODEL.

Fig. 1.

Fig. 3.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT W. BARBER, OF CLEARFIELD, PENNSYLVANIA.

END-GATE.

SPECIFICATION forming part of Letters Patent No. 773,776, dated November 1, 1904.

Application filed March 15, 1904. Serial No. 198,275. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. BARBER, a citizen of the United States, residing at Clearfield, in the county of Clearfield and State of Pennsylvania, have invented a new and useful End-Gate, of which the following is a specification.

This invention relates to end-gates for wagons, and has for its objects to produce a comparatively simple inexpensive device of this character which may in practice be readily opened and closed and locked in either of said positions or in intermediate positions and one in which the lower edge of the gate will be at all times maintained in close contact with the bottom of the vehicle.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a wagon-body having my improved device applied thereto and showing the gate closed. Fig. 2 is a similar view showing the gate open. Fig. 3 is a view illustrating a slightly-different embodiment of the invention.

Referring to the drawings, 1 designates the sides, and 2 the bottom, of a wagon-body, these parts being of the usual construction and material, except that the bottom 2 projects slightly at 3 in rear of the adjacent ends of the sides equal to thickness of end-gate.

The end-gate 4, which when in normal closed position bears at its lower edge upon the extension 3, is provided in accordance with my invention with a pair of guide wings or members 5, disposed, respectively, at opposite ends of the gate. These members, which are preferably composed of heavy sheet metal and of quadrant form, as shown, are provided along their curved edges with correspondingly-curved slots or guideways 6 and along their normally vertical edges with inturned flanges 7 for the reception of bolts or analogous fastening devices by means of which the members are firmly but detachably secured to the end-gate, which latter is pivoted to the wagon-body by means of bolts or other pivoting members 8 engaging slots 9 formed in the plates 5 and continued or extended into normally

depending ears or projections 10 provided on the plates. The slots 6 are designed to receive locking members or bolts 11, fixed, respectively, to the sides 1, adjacent to the rear upper corners of the latter, the bolts having tapped thereon suitable clamping nuts or devices 12, which may be manipulated for clamping the plates firmly against the adjacent faces of the sides to thereby lock the end-gate in either open or closed position or at any desired intermediate position, attention being directed to the fact that during the tilting of the gate its normally lower edge will bear firmly and evenly against the extension 3 and that while in its open position the normally outer face of the gate will rest upon said extension, thereby obviating liability of particles of the contents of the load—such, for example, as grain or coal—sifting through and escaping between the end-gate and wagon-bottom.

In Fig. 3 is illustrated a slightly-different embodiment of the invention, in which the construction and operation is identical with that described, except that each member 5 carries one of a pair of supplemental locking members 13. These members, which are curved to correspond with the curved edges of the plates 5 and are provided with slots or guideways adapted normally to register with the guideways 6, are disposed upon the outer side faces of the plates 5 and are pivoted near their lower ends to the latter, the upper ends of the members 13 being slotted, as at 14, for the reception of supplemental clamping-screws 15, by which the members 13 are fixed for maintaining their guide-slots in register with the guide-slots 6, as heretofore stated. Communicating with the guide-slots of the supplemental members is a series of notches or recesses 16, arranged at spaced intervals and adapted for engagement with the locking-bolts 11 to hold the gate at intermediate points between its opened and closed position, such engagement of the parts being effected by releasing the clamping-bolts 15 and swinging the supplemental members 13 slightly on their pivots for bringing their guide-slots out of register with the slots 6.

From the foregoing it is apparent that I

produce a simple inexpensive device which may be readily applied to many classes of wagons now in general use and one which in practice will efficiently perform its functions, 5 it being understood that in attaining these ends I do not wish to be limited to the precise details herein set forth, inasmuch as minor changes may be made without departing from the spirit of the invention.

10 Having thus described the invention, what is claimed is—

1. The combination with a wagon-body comprising a bottom and sides, the former being adapted to project slightly beyond the adjacent 15 ends of the latter, of an end-gate having wings or plates adapted to overlap the sides, said plates being provided with guideways and pivoting-slots, pivoting members engaged with the sides and slots, and clamping members 20 carried by the sides and engaging the guideways.

2. The combination with a wagon-body comprising a bottom and sides, of an end-gate pivotally connected with the body, primary members provided on the end-gate for overlapping the sides, secondary members pivoted to the primary members, said members being provided with normally registering guideways and the secondary member with recesses communicating with its guideway, 30 locking devices carried by the sides and engaging the guideways, and means for locking the members with their guideways in registering or non-registering position.

In testimony that I claim the foregoing as 35 my own I have hereto affixed my signature in the presence of two witnesses.

ROBERT W. BARBER.

Witnesses:

H. B. CRAULIN,

HARRY F. WALLACE.