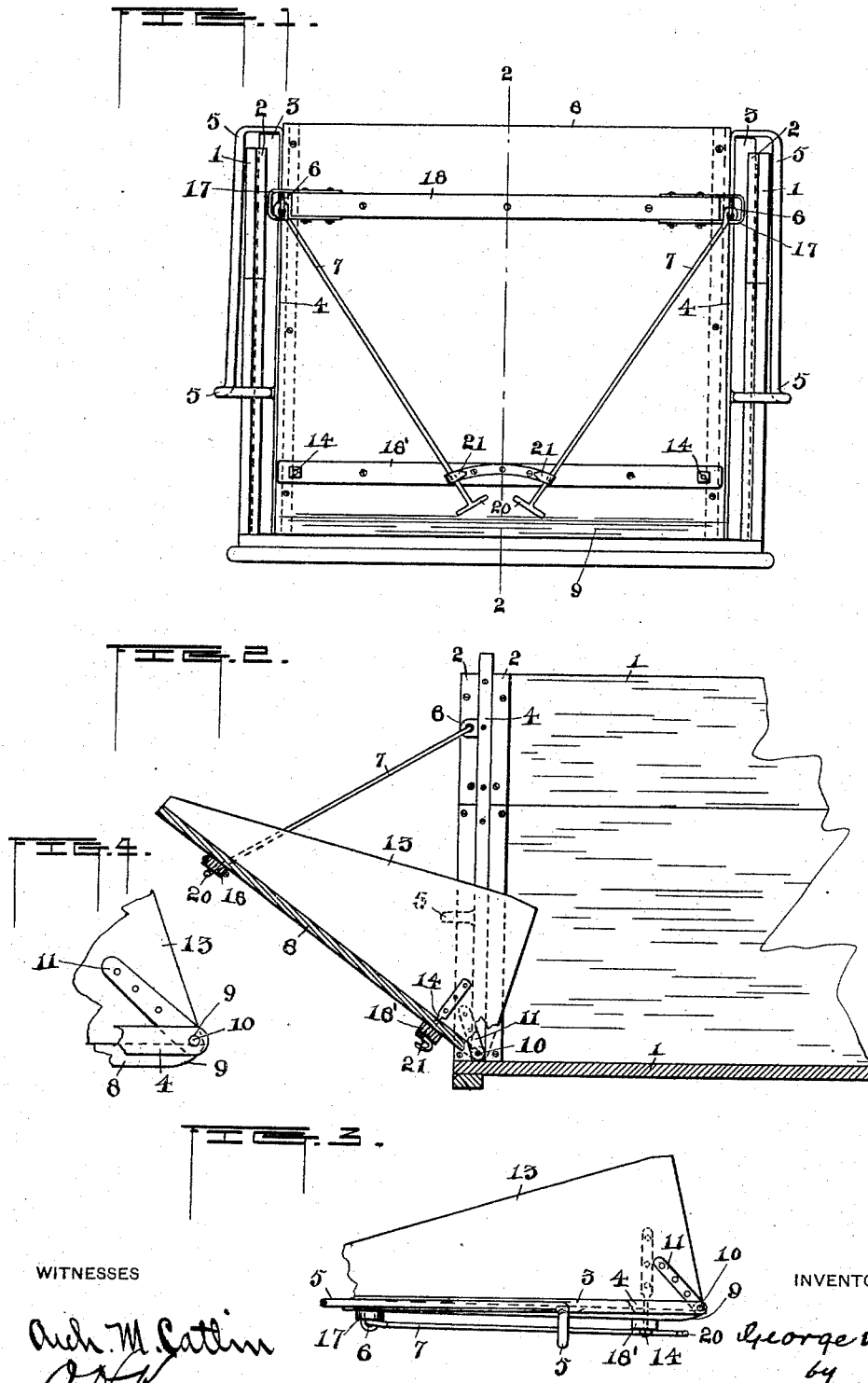


(No Model.)

G. W. WRIGHT.  
END GATE FOR WAGONS.

No. 489,137.

Patented Jan. 3, 1893.



WITNESSES

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# UNITED STATES PATENT OFFICE.

GEORGE WALKER WRIGHT, OF TABLE ROCK, NEBRASKA.

## END-GATE FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 489,137, dated January 3, 1893.

Application filed April 28, 1892. Serial No. 430,973. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WALKER WRIGHT, a resident of Table Rock, in the county of Pawnee and State of Nebraska, have invented certain new and useful Improvements in End-Gates for Wagon-Boxes; 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 pertains to make and use the same.

The invention relates to a wagon box end gate or board, adapted to serve when properly adjusted to act as a grain chute. Such end boards have side pieces removably fitting ways formed usually by cleats secured upon the side boards and they have between said side pieces a chute or scoop-like part adapted to be turned down lengthwise of the box. Heretofore the foot of this chute has not been made to form a close joint with the bottom of the box in all positions.

The object of this improvement is to overcome this objection and to otherwise improve devices of this character; and the invention consists in the construction hereinafter described and particularly pointed out.

In the accompanying drawings: Figure 1 is an end elevation of a wagon box and gate; Fig. 2 is a section on line 2-2 of Fig. 1; and Fig. 3 is a partial side elevation of the gate. Fig. 4 is an enlarged detail.

Numeral 1 denotes a wagon box having ways 2 for the frames or side bars 3, adapted to be inserted or removed from said ways. These side bars 3 are provided each with a metal face 4 having an arm 5 extending over and outside the side board and secured to said bar at a point near its mid length. These arms 5 each bear on the outside of the box and at their lower ends they also bear on the inside of the cleats fixed to the side-boards of the box to form ways 2.

6 is a lug attached to the face to provided for securing it to a pivoted bar 7. The metal face, arm and lug may be formed in one piece by casting or otherwise. In some cases the arm will be made of spring metal and made to bear on the wagon box.

8 denotes a chute constituting a separately movable part of the end board. At its extreme lower edge which is beveled or rounded on its outside as indicated at 9, in Fig. 3 it is

provided with pivots 10 adapted to enter bearings or sockets 9' formed in or attached to the foot of the faces 4. Preferably the axial line of these pivots and the lowest edge of the chute 8 are at the level of the surface of the bottom board. The object of the construction just described is to keep the foot of the shoe always in contact with the bottom board of the box which supports it so that grain or other material will not escape under it and so that a shovel can take up all such material when the chute is lowered. The bevel at the bottom or foot of the chute contributes to this purpose as it permits the said foot to be kept close to the bottom of the box when the chute is turned on its pivots.

13 indicates the sides of the chute and 14 fastening bolts which pass through a transverse cleat or bar 18'. The pivots 10 are in some cases formed on a bar 11, riveted or bolted to the sides of the chute. Bolts 14 and bars 11 are secured to the widest part of the side boards on opposite sides thereof and in addition to their other functions they brace and strengthen said side boards.

17 indicates loops formed conveniently by straps secured to the cross bar 18.

7 are rods pivotally secured to the lugs or eye bolts 6 and pass through loops 17. On said rods are hooks or T heads 20 which engage the loops and support the chute when it is turned down on its pivots and in position to operate as a chute or gangway. When not in use these rods are held by spring hooks 21 situated upon the bar 18' of the end board and constitute a lock for the chute. The friction of the side pieces in the ways and of the arms 5 will be sufficiently ordinarily to hold down the end board in use. These arms bear on the exterior of the side boards and also upon the inside of the cleats which help to form the ways 2.

Having thus described my invention what I claim is:

1. In a wagon box an end board or gate having the side bars 3 each provided with bearings at its foot, and the chute having pivots with their axes in line with the lower edge of said chute situated at the surface of the bottom of the box and entering said bearings; substantially as set forth.

2. In a wagon box gate the side bars having



each a face 4 and arm 5 said face and arm being integral and the face provided with a lateral lug and with a bearing in its foot in combination with a pivoted chute; substantially as set forth.

5 3. In a wagon box an end board or gate having the side bars 3, each provided with an arm 5 adapted to bear on the outside of the box and on the inside of a cleat secured to the  
10 same whereby they are held in position; substantially as set forth.

4. In a wagon-box gate the chute having side boards 13 and fastening bolts 14 and the

bars 11 provided with pivots, said bolts and bars being placed on opposite sides of the 15 boards and adapted to strengthen the same at their widest part, and bearings to receive said pivots; substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscrib- 20  
ing witnesses.

GEORGE WALKER WRIGHT.

Witnesses:

M. H. MARBLE,  
JOHN A. CRAMER.