

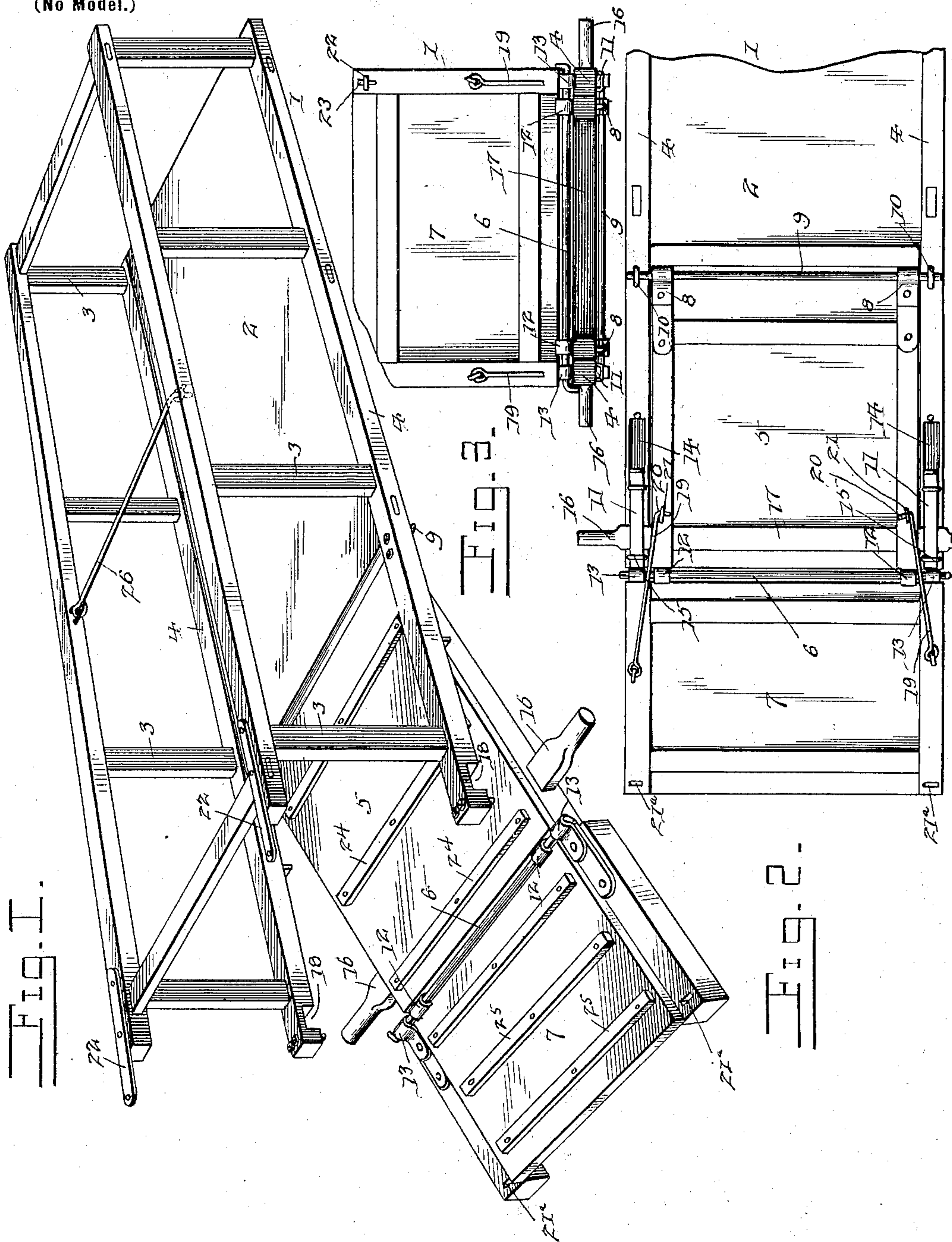
No. 653,083.

Patented July 3, 1900.

J. T. HALL.  
END GATE.

(Application filed Apr. 4, 1900.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

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## END-GATE.

SPECIFICATION forming part of Letters Patent No. 653,083, dated July 3, 1900.

Application filed April 4, 1900. Serial No. 11,496. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH T. HALL, a citizen of the United States, residing at Confederate, in the county of Lyon and State of Kentucky, have invented a new and useful End-Gate, of which the following is a specification.

The invention relates to improvements in end-gates.

The object of the present invention is to improve the construction of end-gates and to provide a simple, inexpensive, and efficient one adapted to form an inclined skid or chute for loading and unloading stock, whereby the latter may be readily placed in and removed from a vehicle without injury to them or inconvenience to the driver.

A further object of the invention is to provide a device of this character which will not involve an extension of the end-gate above the sides of the wagon body or frame.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a frame or body provided with an end-gate constructed in accordance with this invention and arranged to form an inclined skid or chute. Fig. 2 is a reverse plan view, the end-gate and the hinged section of the bottom of the frame or body being arranged in a horizontal position. Fig. 3 is a rear elevation.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a frame or body designed to be mounted on a running-gear and composed of a bottom 2 and sides 3, having posts and horizontal top pieces and designed to be covered with suitable material—such as netting, boards, sheet metal, or the like—whereby the stock will be retained in the frame or body and the latter made sufficiently light to enable it to be conveniently handled to place it on and remove it from a running-gear. The bottom, which is provided with longitudinal side-bars 4, has a hinged rear section 5, which is hinged at its outer end by a transverse pintle 6, with an end-gate 7, and which is adapted to be swung downward to the position illus-

trated in Fig. 1 of the accompanying drawings to form an inclined skid or chute for enabling stock, such as sheep and hogs, to be readily loaded into the frame or body and unloaded therefrom. The end-gate is designed to be arranged in a vertical position, as illustrated in Fig. 3, similar to an ordinary end-gate after the frame or body has been loaded, and it is adapted, as illustrated in Fig. 2, to be rigidly secured to the hinged section of the bottom to form a continuation thereof.

The hinged section of the bottom is provided at its inner end with suitable eyes 8 for the reception of a transverse pintle-rod 9, which is also arranged in eyes 10 of the side bars 4 of the bottom 2; but any other form of hinge may be employed for connecting the hinged section 5 with the rigid section or body portion of the bottom 2. When the hinged section is in a horizontal position, it is arranged between the rear portions of the side bars 4, and it is secured to them by sliding bolt 11, arranged at the rear ends of the side bars, as clearly illustrated in Fig. 2. The section 5 and the end-gate 7 are framed with heavy material, as illustrated in Fig. 2 of the drawings, to provide the necessary strength, and the pintle 6, which is arranged at the inner or upper faces of the section 5 and the end-gate 7, passes through suitable eyes 12 and 13, and when the end-gate is arranged in the same plane as the section 5 the side bars of these parts abut and form a solid structure.

The sliding bolts 11 are mounted in suitable grooves 14 and are arranged in guides or keepers 15 and are adapted to engage extensions 16 of the transverse bar 17 of the section 5, the rear ends of the side bars 4 being provided with lower recesses 18 to receive the extensions 16, which also project laterally from the section 5 for the purpose of providing handles, so that the said section 5 may be conveniently swung upward to a horizontal position. The end-gate 7 is locked in alignment with the section 5 by means of rods 19, provided with hooks 20, adapted to engage eyes 21 of the section 5. The rods 19 are provided at their other ends with eyes which are linked into eyes of the outer face of the end-gate, and these fastening devices are designed to be constructed of sufficient



strength to provide a solid structure, and when the end-gate and the hinged section are subjected to pressure there is no liability of the hooks or the sliding bolts accidentally slipping.

The end-gate, which may be locked in its vertical or closed position by any suitable means, is preferably provided at its top with apertures 21 for the reception of arms or bars 22, which are secured to the upper edges of the sides of the frame or body. The arms or bars extend rearward through the openings or apertures of the end-gate and are provided with perforations for the reception of pins or keys 23.

The inner face of the end-gate and the upper face of the hinged section 5 are preferably provided with transverse strips or cleats 24 and 25 to afford a firm foothold for animals when the parts are arranged, as shown in Fig. 1, to form a skid or chute. The sides of the frame or body are also connected by a transverse rod or brace 26, hinged to one side and provided adjacent to the other side with a hook which detachably engages an eye of such side, as clearly illustrated in dotted lines in Fig. 1 of the drawings.

It will be seen that the device is exceedingly simple and inexpensive in construction, that the improvements are applicable to various kinds of wagon-bodies, and that when the hinged section and the end-gate are swung downward and are locked in alinement an efficient skid or chute is provided which will enable animals to be readily loaded into a vehicle and unloaded therefrom without the liability of injuring them and without any inconvenience or labor.

What is claimed is—

1. In a device of the class described, the combination of a frame or body provided at the rear end of its bottom with a hinged section adapted to swing downward below a horizontal position, and a hinged end-gate secured to the outer end of the said hinged section and adapted to form a continuation thereof to provide an inclined skid or chute without extending the end-gate above the sides

of an ordinary wagon body or frame, substantially as and for the purpose described.

2. In a device of the class described, the combination of a frame or body provided with a bottom having a rear section, adapted to be lowered to an inclined position, and an end-gate adapted to be arranged in an inclined position, to form a continuation of the said section to provide a skid or chute without extending the end-gate above the sides of an ordinary wagon body or frame, substantially as described.

3. In a device of the class described, the combination of a frame or body having a bottom provided at its rear end with a hinged section, fastening devices for locking the hinged section in a horizontal position, an end-gate hinged to the outer end of the said hinged section, whereby a skid or chute may be provided without extending the end-gate above the sides of an ordinary wagon body or bed, and means for securing the end-gate in alinement with the hinged section, to form a skid or chute, substantially as described.

4. In a device of the class described, the combination of a frame or body having a bottom provided at its rear end with a hinged section, the side-bars of the bottom being extended rearward and provided with recesses, the lateral extensions projecting from the outer portion of the hinged section and arranged in the said recesses, fastening devices mounted on the side-bars of the bottom and securing the extensions in the recesses, an end-gate hinged to the outer end of the hinged section and fastening devices for rigidly connecting the end-gate to the hinged section when the parts are arranged to form an inclined skid or chute, substantially as described.

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

JOSEPH T. HALL.

Witnesses:

W. L. CRUMBAUGH,  
T. H. MALLOY.