

No. 762,265.

PATENTED JUNE 14, 1904.

A. ABRAHAM.
END GATE FASTENER.
APPLICATION FILED MAR. 4, 1904.

NO MODEL.

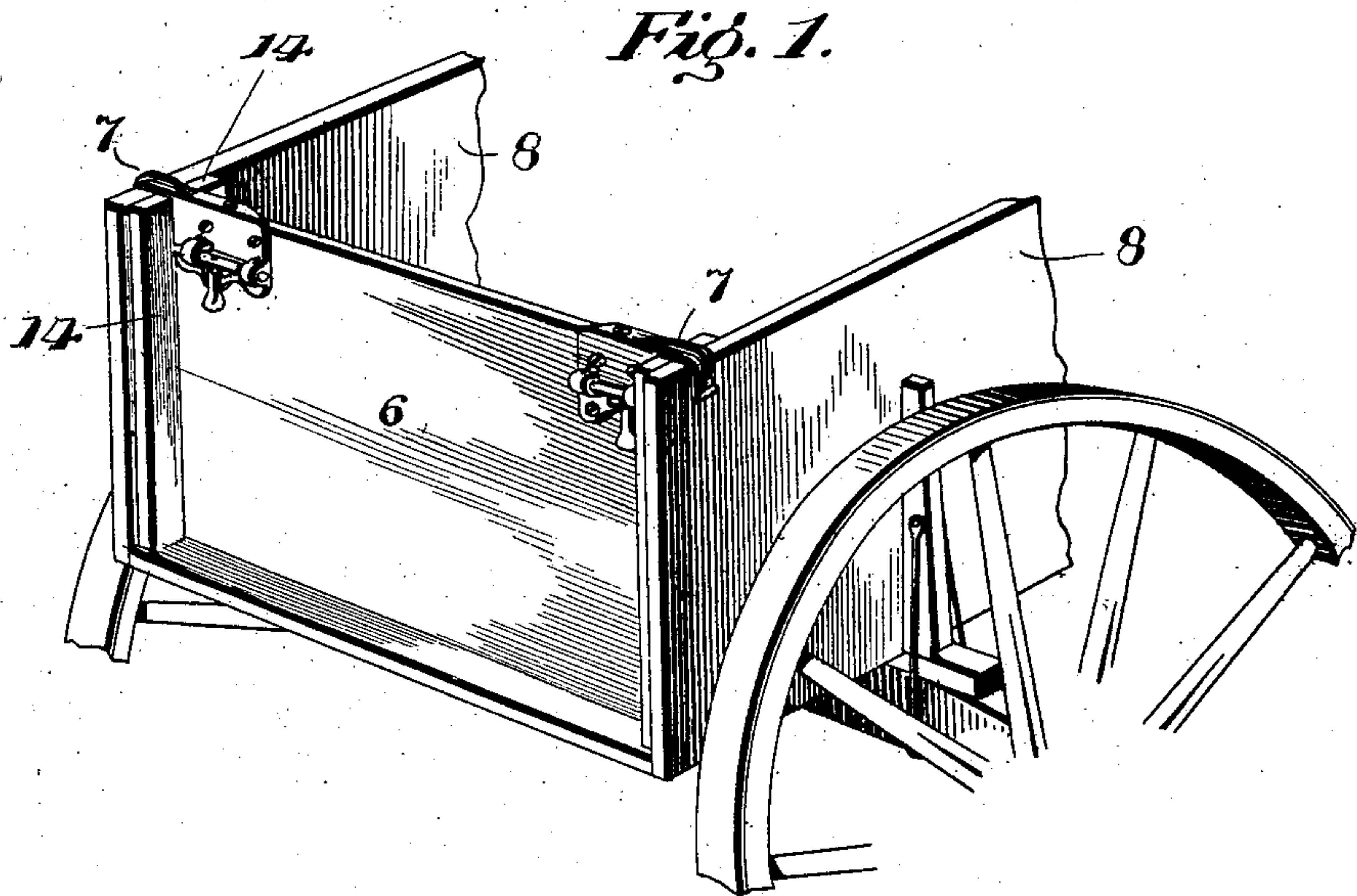


Fig. 2.

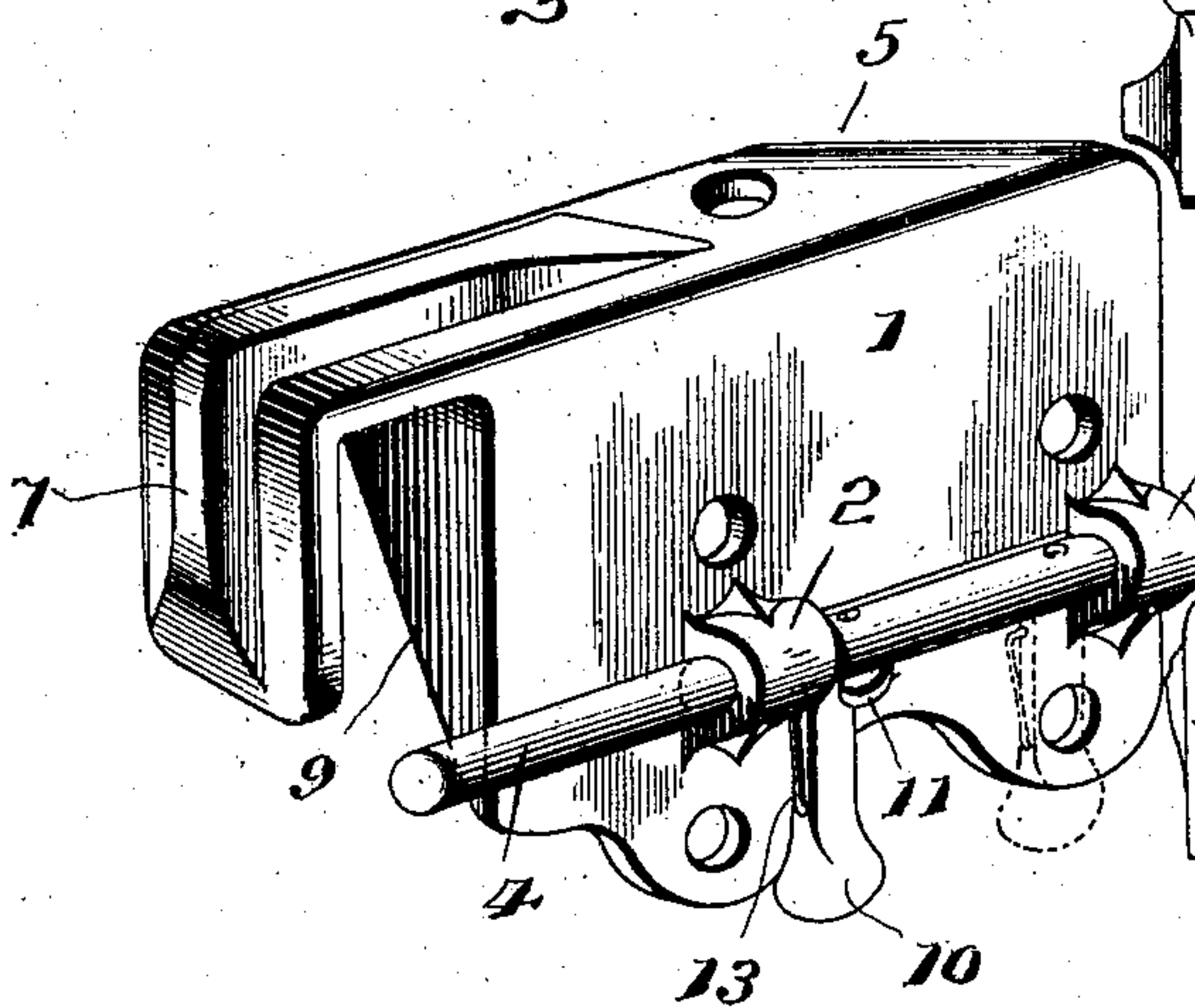


Fig. 3.

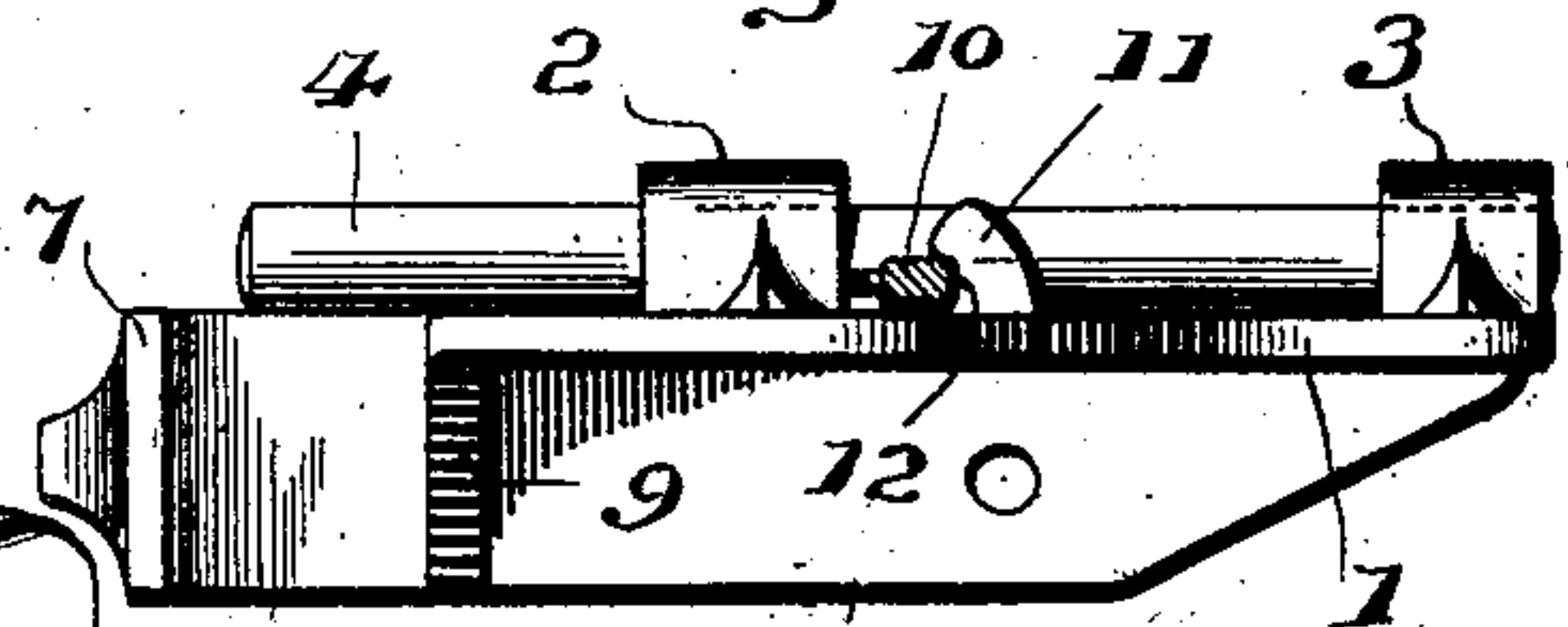
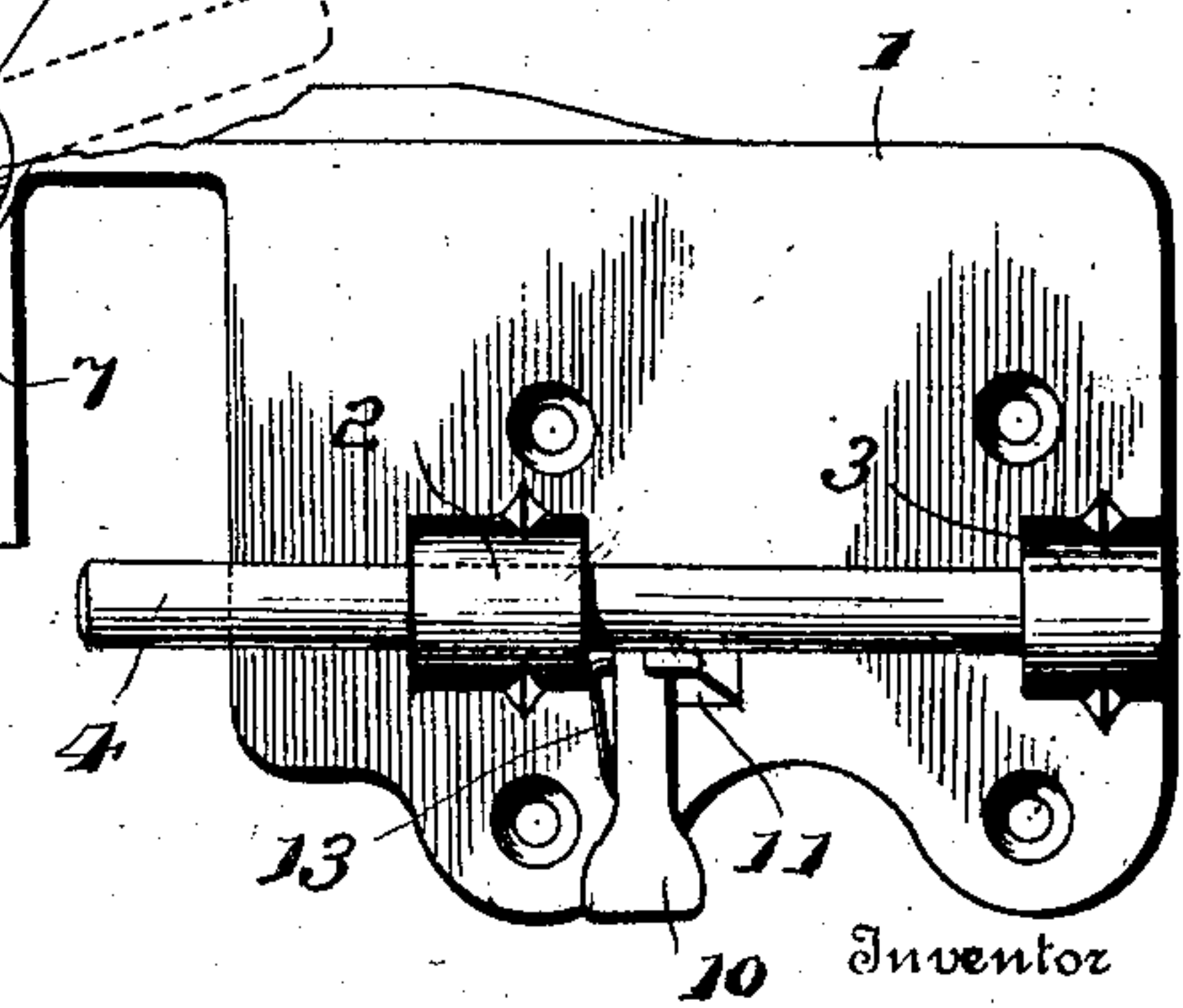


Fig. 4.



Witnesses

John H. ...
W. H. Woodson

By

Adolph Abraham.
Ph. H. Lacey, Attorneys

UNITED STATES PATENT OFFICE.

ADOLPH ABRAHAM, OF JANESVILLE, MINNESOTA.

END-GATE FASTENER.

SPECIFICATION forming part of Letters Patent No. 762,265, dated June 14, 1904.

Application filed March 4, 1904. Serial No. 196,609 (No model.)

To all whom it may concern:

Be it known that I, ADOLPH ABRAHAM, a citizen of the United States, residing at Janesville, in the county of Waseca and State of Minnesota, have invented certain new and useful Improvements in End-Gate Fasteners, of which the following is a specification.

This invention appertains to an end-gate fastener of peculiar formation whereby displacement of the end-gate is prevented and the sides of the wagon-body held from spreading when subjected to internal pressure.

The fastener is designed to be applied to the style of end-gates slidable between cleats or in vertically-disposed guides at the inner side of the wagon-body side-boards. The invention is also applicable to swinging end-gates, as will be readily apparent to any one skilled in the art when informed of the nature of the fastener.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the rear portion of a wagon-body, showing the application of the invention. Fig. 2 is a perspective view of the fastener. Fig. 3 is a view of the fastener inverted, showing the finger-piece in section. Fig. 4 is a front view of the fastener.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The fastener is constructed in rights and lefts and comprises plate 1, having spaced lugs or keepers 2 and 3, which are apertured for the latch-bolt 4 to slide in. A flange 5 is provided at the upper edge of the plate 1 and projects in an opposite direction to the lugs 2 and 3 and is adapted to engage over the upper edge of the end-gate 6 and is apertured

to receive a fastening to supplement the fastenings employed for securing the fastener to the end-gate. A hook 7 projects from an end of the plate 1 and is designed to engage over the upper edge of the side-board 8 of the wagon-body, so as to prevent spreading or outward displacement thereof when the end-gate is in position and the load exerts an outward pressure upon the side-boards 8. The hook 7 is a continuation of the flange 5 and is sufficiently stout to withstand the strain to which it may be subjected in operation. A web 9 connects the flange 5 with the plate 1 and is located at the inner end of the hook 7 and also serves to reinforce the upper corner of the end-gate.

The latch-bolt 4 is slidable in the lugs or keepers 2 and 3 and is adapted to project across the space of the hook 7, so as to engage with the side-board 8 and prevent upward displacement of the end-gate when in position. A finger-piece 10 is fitted to the latch-bolt 4 and is arranged to come between the lugs 2 and 3 and constitutes a stop to limit the movements of the latch-bolt. A lug 11 projects outward from the plate 1 adjacent to the lug 2, and the side facing, said lug 2 is notched, as shown at 12, to form a seat to receive the finger-piece 10 and prevent casual displacement thereof. A spring 13 is fitted to the finger-piece 10 and is adapted to hold said finger-piece in the notch 12 and obtains a bearing against the lug 2, as indicated most clearly in Figs. 3 and 4. When it is required to withdraw the latch-bolt from engagement with the side-board of the wagon-body, the finger-piece 10 is pressed toward the lug 2, thereby compressing the spring 13 and moving the finger-piece out of engagement with the notch 12, after which an outward movement of the finger-piece at its lower end causes it to clear the lug 11, when the latch-bolt may be withdrawn, as indicated by the dotted lines in Fig. 2, thereby releasing the end-gate, which may be removed or opened in the usual manner.

As illustrated in Fig. 1, the end-gate 6 is provided at its upper corners with fasteners constructed in accordance with this invention and is adapted to slide in guideways provided upon the inner face of the side-boards 8, said

guideways being formed between spaced cleats 14, secured to the inner face of the side-boards in any substantial way. When the end-gate is in position, the hooks 7 engage over the upper edges of the side-boards 8 to hold the same close against the ends of the part 6 and prevent spreading thereof.

Having thus described the invention, what is claimed as new is—

10 1. In an end-gate fastener, the combination of a plate provided with keepers, a latch-bolt slidably mounted in said keepers, a finger-piece connected with the latch-bolt, a stop projected from the fastener adjacent to one of
15 said keepers and adapted to interlock the said finger-piece to hold the latch-bolt in interlocking engagement, and a spring cooperating with the finger-piece to hold it in positive engagement with said stop, substantially as set
20 forth.

2. The herein-described end-gate fastener comprising a plate provided with keepers, a stop adjacent to one of the keepers, a flange at the upper edge of the plate, a hook projected from said flange, and a web connecting said flange with the plate, a latch-bolt slidably mounted in the keepers, a finger-piece connected with the latch-bolt, and a spring applied to said finger-piece and adapted to exert a pressure against one of the keepers
25 for holding said finger-piece in interlocking engagement with the aforesaid stop, substantially as specified.

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

ADOLPH ABRAHAM. [L. S.]

Witnesses:

ROBERT GEHRKE,
ALBERT ABRAHAM.