

No. 840,656

PATENTED JAN. 8, 1907.

L. PULS.
SCOOP BOARD FOR WAGON BOXES.
APPLICATION FILED SEPT. 20, 1906.

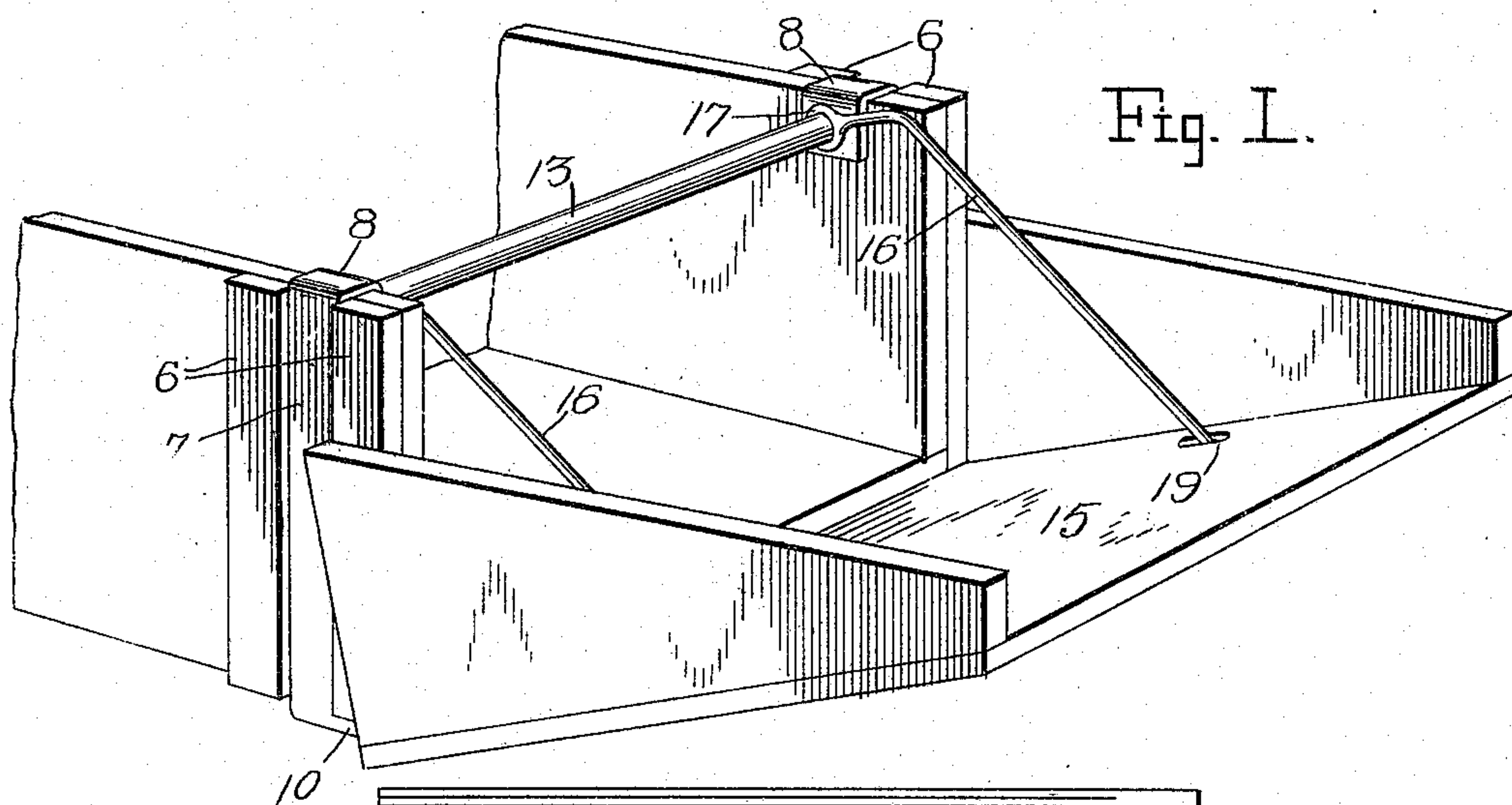


Fig. 1.

Fig. 3.

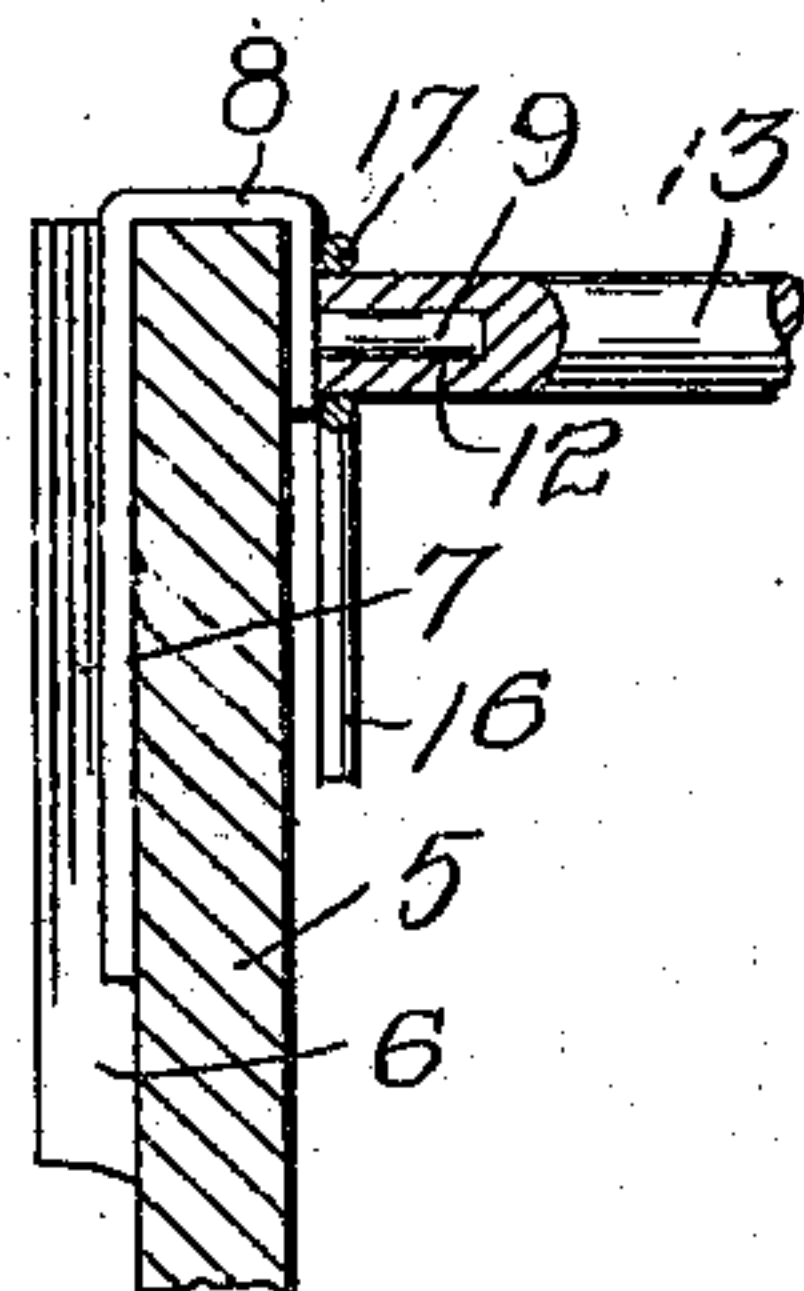


Fig. 4.

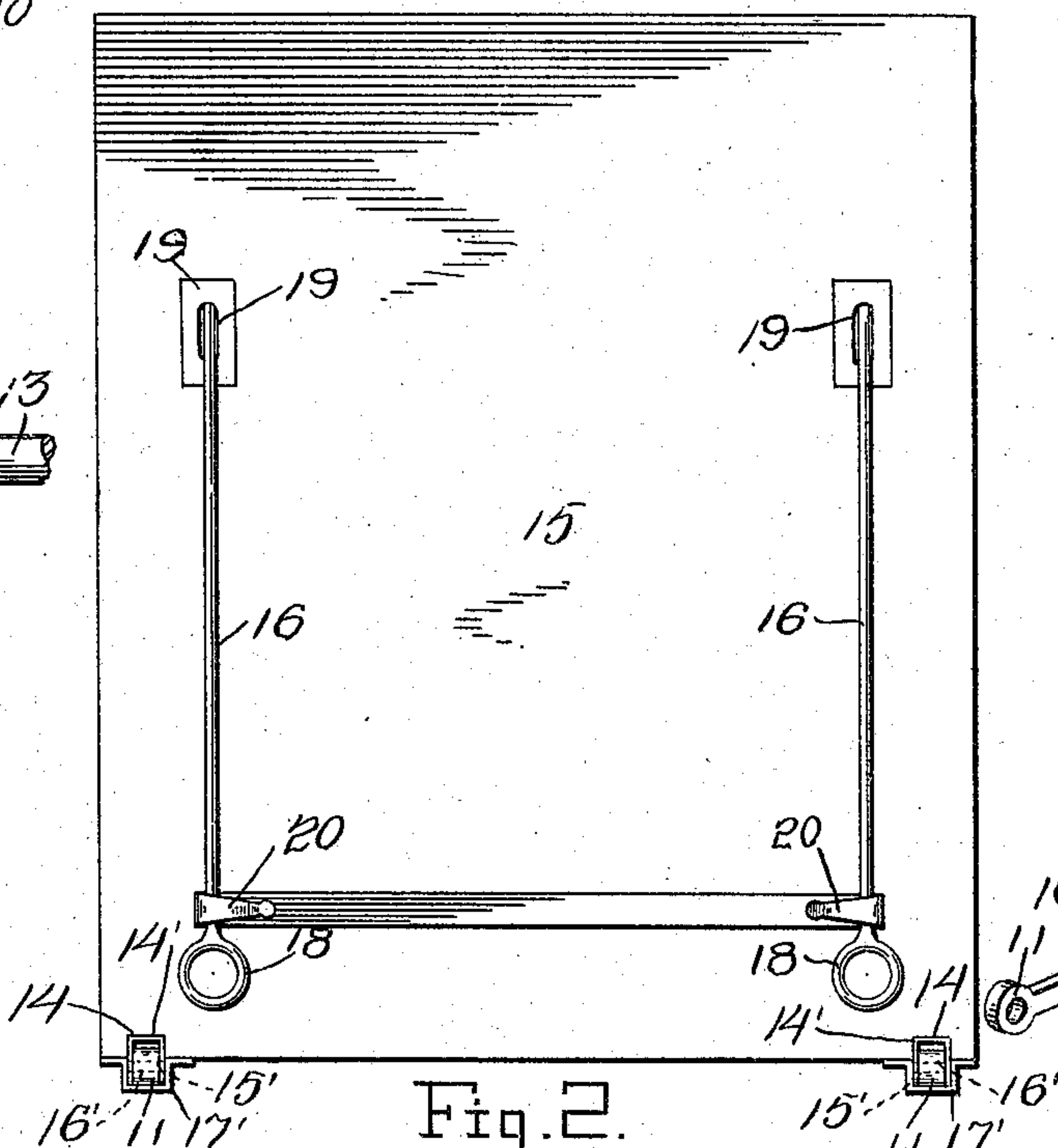
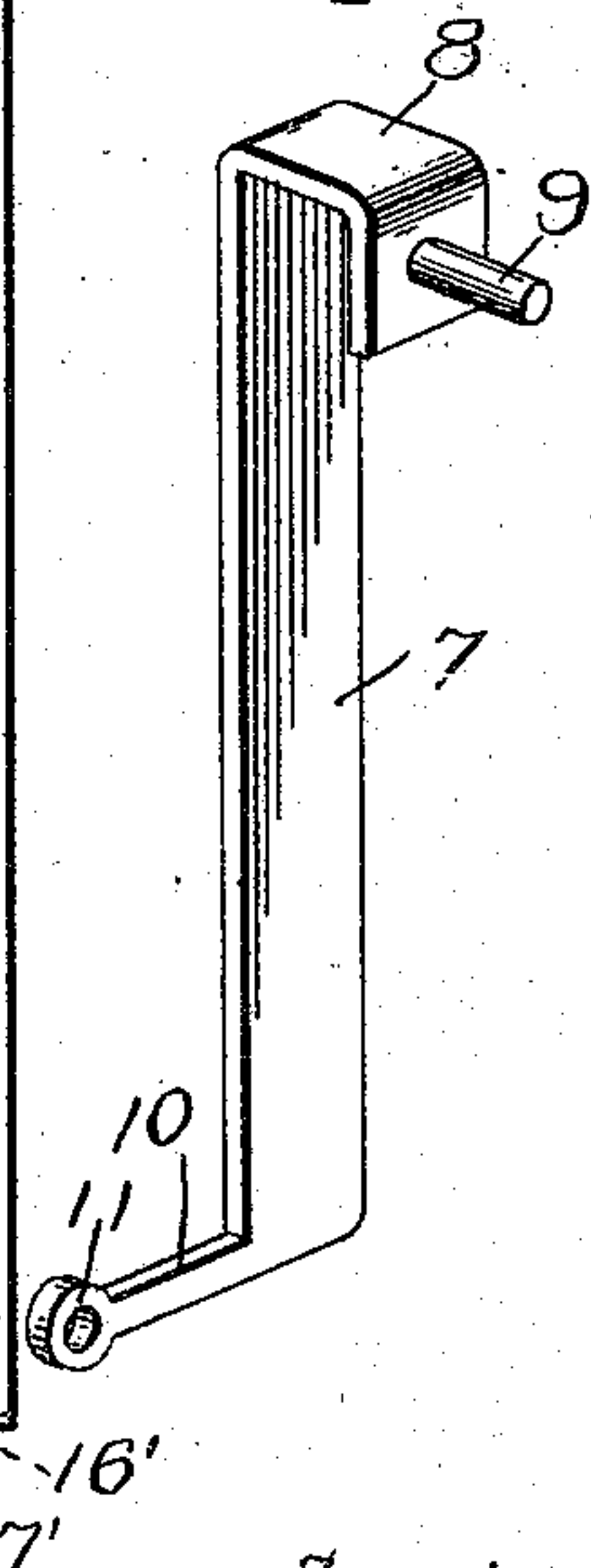


Fig. 2.

Witnesses

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SCOOP-BOARD FOR WAGON-BOXES.

No. 840,656.

Specification of Letters Patent.

Patented Jan. 8, 1907.

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To all whom it may concern:

Be it known that I, LOUIS PULS, a citizen of the United States, residing at Davenport, in the county of Scott, State of Iowa, have
5 invented certain new and useful Improvements in Scoop-Boards 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
10 art to which it appertains to make and use the same.

This invention relates to scoop-boards for wagon-boxes, its object generally comprising the construction of a simple and effective device
15 vice of that nature.

With this end in view the invention consists in the particular construction, combination, and arrangement of parts, all as hereinafter fully described, and illustrated in the accompanying drawings, in which—
20

Figure 1 is a perspective view of the discharge end of a wagon-box with the scoop-board attached thereto in open position. Fig. 2 is a similar view in elevation with the
25 scoop-board closed. Fig. 3 is an enlarged detail view, in vertical section, showing the connection between the bracket, brace, and scoop-board. Fig. 4 is a perspective view of one of the brackets.

30 Like parts are designated by corresponding reference-numerals in the several views.

Referring to the drawings, 5 designates generally the discharge end of a wagon-box provided with cleats 6 on the outer face of its
35 sides. Fitting between each pair of cleats and retained in place thereby is a vertical bracket 7, the upper end of which is bent at right angles to the body portion, as at 8, to extend over the side of the wagon-box and
40 provided with a projecting finger 9. The lower end of each bracket projects below the under face of the wagon and is provided with an extension 10 at right angles to the body portion of the bracket and to the upper extension 8 and having an eye 11 formed there-
45 in toward the free end thereof.

The upper fingers 9 fit in sockets 12, formed in the opposite ends of a transverse brace-rod 13.

50 The lower edge of the scoop-board 15 of the wagon is provided with a pair of sockets 14 formed therein, there being a lining-plate 14' mounted in each socket and comprising a pair of spaced arms, each of which is provided
55 with an eye 15' formed therein, the extensions 10 of the brackets passing between the

spaced arms of the wear or lining plates 14', with the eyes 11 of said extensions registering with the eyes 15', above referred to. The free ends of the arms of each plate 14' project
60 slightly below the lower edge of the scoop-board to permit the passage through the eyes 11 and 15' of pins 16', such construction forming a pivotal joint for the scoop-board in the nature of a pair of hinges. If desired, a
65 plate 17' may be detachably secured to the under edge of the scoop-board to hold each pin 16' in place.

Pivoted to the brace-rod 13, adjacent the ends thereof, is a pair of supporting-rods 16,
70 having eyes 17 and 18 at their upper and lower ends, respectively, the lower eyes 18 being of greater size than the upper eyes and lying in an approximately horizontal plane. Said rods normally extend through vertical
75 slots 19, formed in the scoop-board and of less length than the width of said lower eyes. The scoop-board is also preferably provided with a pair of wear-plates 19', said plates being secured to the outer face of the scoop-
80 board with their openings in registration with the corresponding openings 19. It follows, therefore, that when the scoop-board is in its vertical or closed position the greater portion of each rod will project rearwardly
85 through the slots 19, the lower ends of said rods being engaged by inwardly-disposed spring-hooks 20, provided upon opposite sides of the scoop-board adjacent the lower edge thereof, the rods being formed of suffi-
90 ciently-flexible metal to permit such engagement.

To disengage the rods from their catches, it is only necessary to move the same inwardly, when the scoop-board may be low-
95 ered until the eyes 18 on the lower ends of the rods contact with the outer face of the scoop-board, and thus check its downward movement. The scoop-board will thus be firmly supported in either position, owing to the co-
100 operation between the rods and catches and rod eyes and slots, respectively, and its accidental displacement practically prevented.

The hinges formed by the eyes in the extensions 10 of the brackets 7 and the spaced
105 arms of the wear-plates 14 and the pins 16' act as a perfect pivotal support for the scoop-board and at the same time hold it in place upon the wagon-box, as it is obviously necessary to disengage said pins before the brackets may be bent backwardly sufficiently to
110 enable the upper fingers to be withdrawn

from the brace-rod sockets, when the brace-rod may be readily removed from the upper rod-eyes.

The scoop-board is provided with the usual side wings, which when said scoop-board is in its vertical position extend across and beyond the wagon-box cleats. The brackets are formed of resilient metal to enable them to retain their position and permit the upper fingers to be readily inserted into and removed from the brace-rod sockets.

Obvious modifications and changes may be made in the size, location, and material of the various parts and in the minor details of the invention generally without departing from its scope or sacrificing any of its advantages.

What is claimed is—

1. The combination with a wagon-box, of a pair of vertical cleats provided on the outer face of each side thereof; a bracket mounted between each pair of cleats and having an upper and a lower extension; an inwardly-projecting finger formed on each upper extension of said brackets; a transverse brace having end sockets adapted to receive said fingers; a scoop-board having a pair of sockets formed in its lower edge; a wear-plate secured in each socket in said scoop-board and including a pair of spaced arms having their free ends projecting below the scoop-board edge, the lower extensions of said brackets passing between the corresponding pair of spaced arms; and means connecting said lower extensions and said extended arm ends, to serve as a pivotal support for said scoop-board.

2. The combination with a wagon-box, of

a pair of vertical cleats provided on the outer face of each side thereof; a bracket mounted between each pair of cleats and having an upper and a lower extension; each upper extension having an inwardly-directed finger, and each lower extension having an eye formed therein toward its free end; a transverse brace-rod having end sockets adapted to receive said fingers; a scoop-board having a pair of sockets formed in its lower edge; a wear-plate secured in each socket and including a pair of spaced arms having their free ends projecting below said scoop-board edge and provided with an eye, the lower extensions of said brackets fitting between the corresponding pairs of spaced arms, with the several eyes disposed in alinement with each other; pins passing through said eyes to form a pivotal support for said scoop-board; a pair of rods mounted at one end upon said brace and projecting through corresponding slots formed in said scoop-board; eyes formed upon the opposite ends of said rods, and extending in a plane at right angles to that of said slots, for supporting said scoop-board when in lowered position; and a pair of spring-catches attached to the lower portion of said scoop-board adjacent the lower edges thereof, for engaging the lower ends of said rods when said scoop-board is in its raised or vertical position.

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

LOUIS PULS.

Witnesses:

HENRY E. C. DITZEN,
WM. F. PULS.