

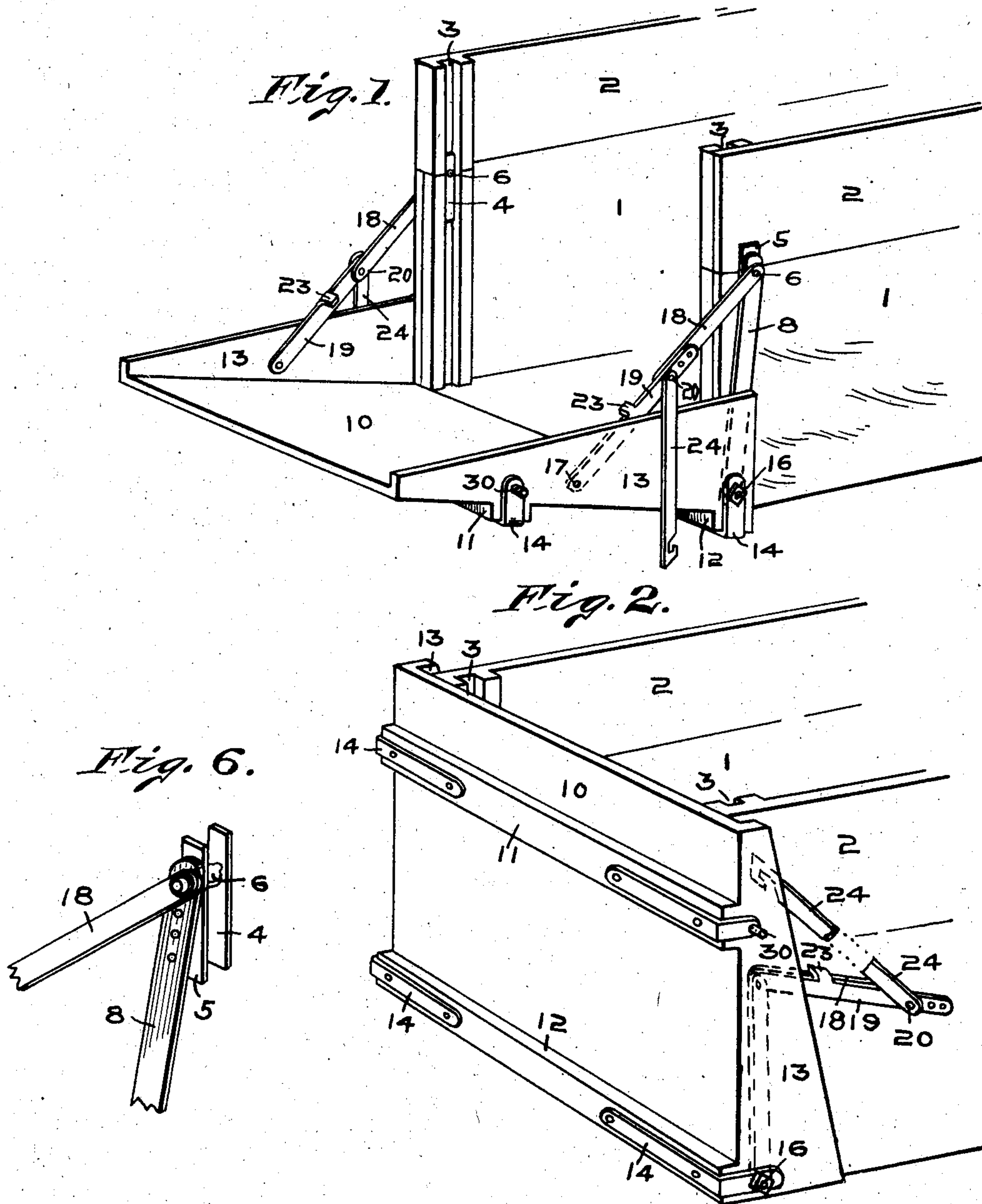
No. 834,380.

PATENTED OCT. 30, 1906.

E. N. HAMILTON.
DUMP AND SCOOP BOARD.

APPLICATION FILED NOV. 28, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

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Fig. 3.

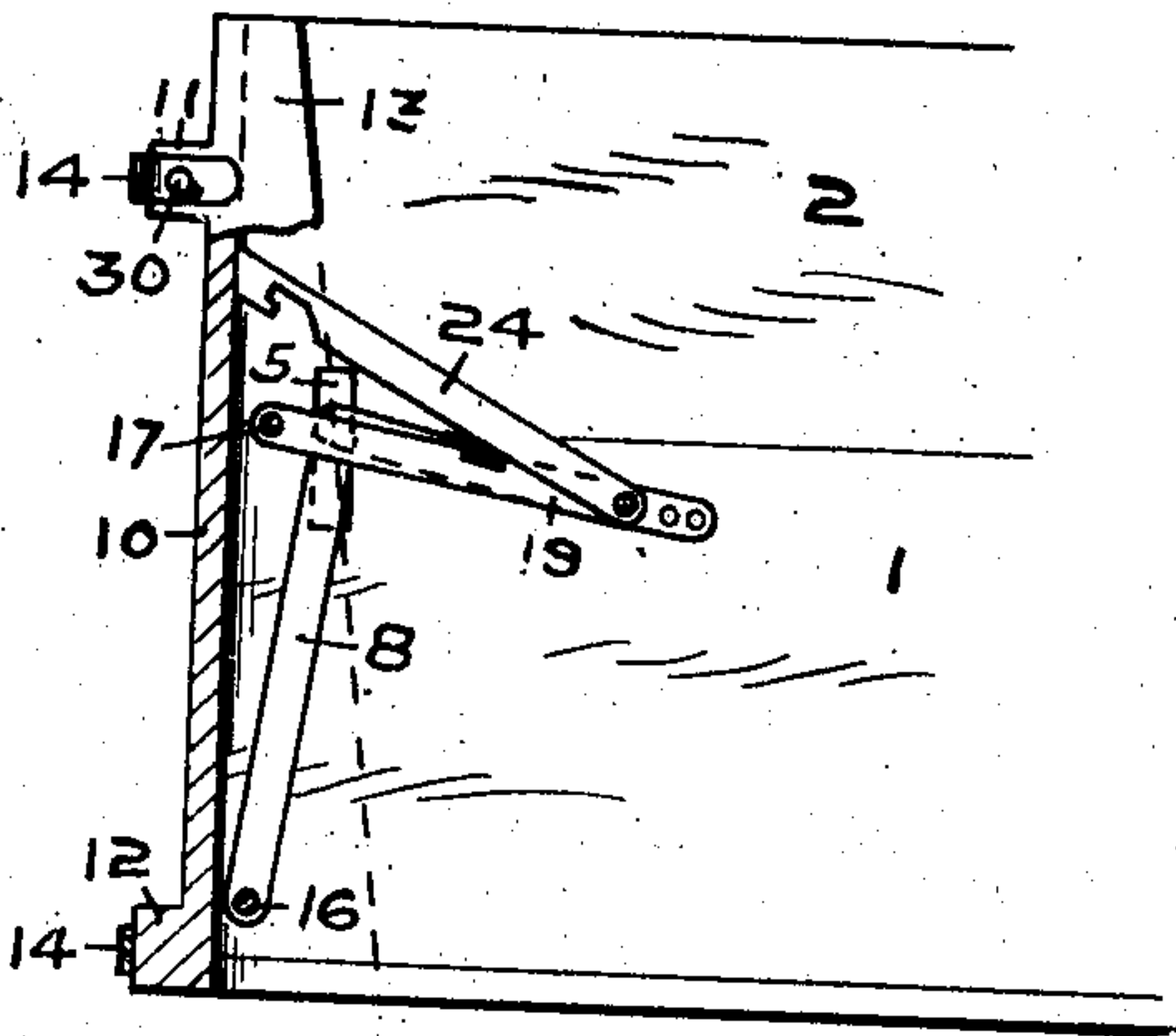


Fig. 4.

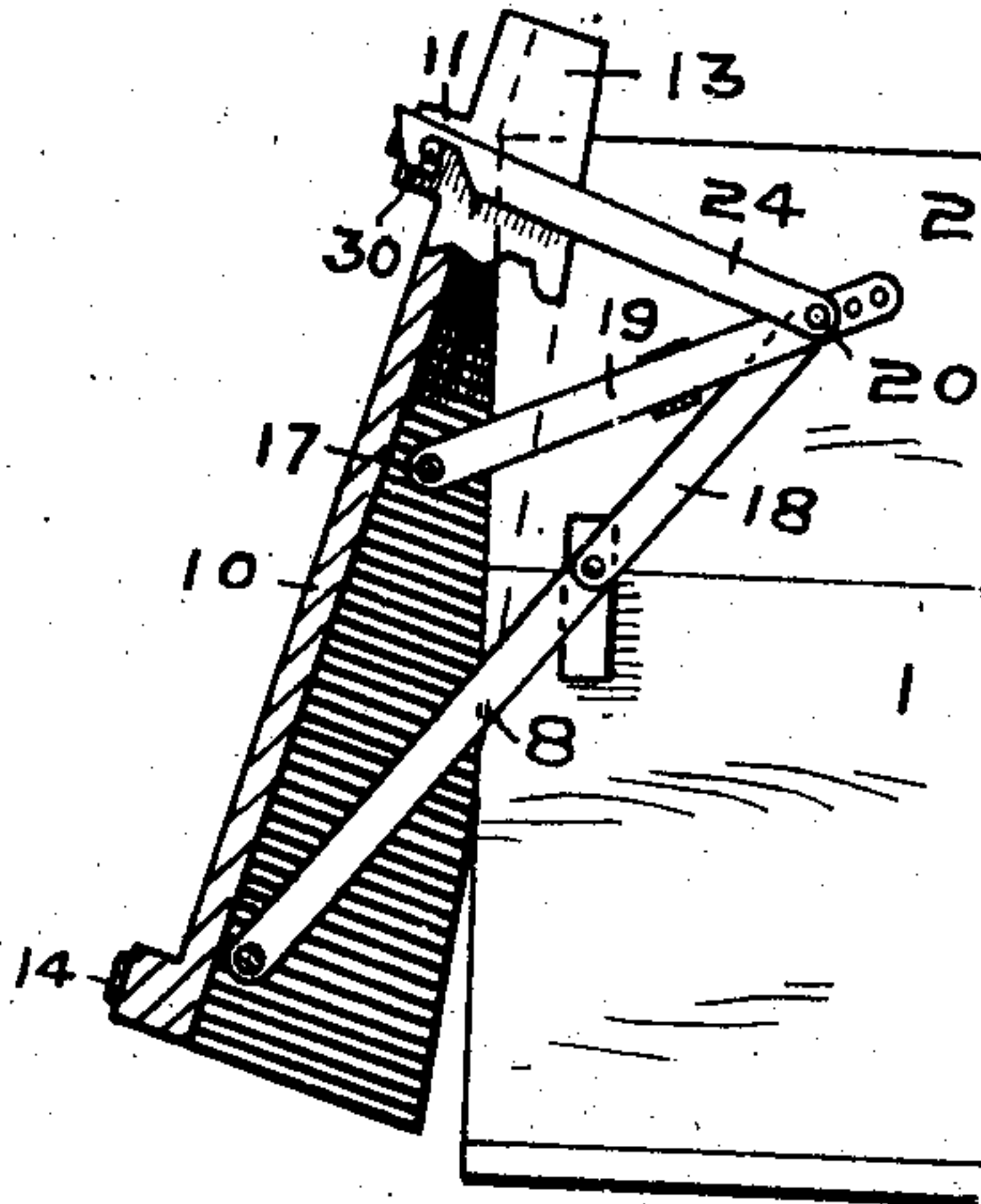
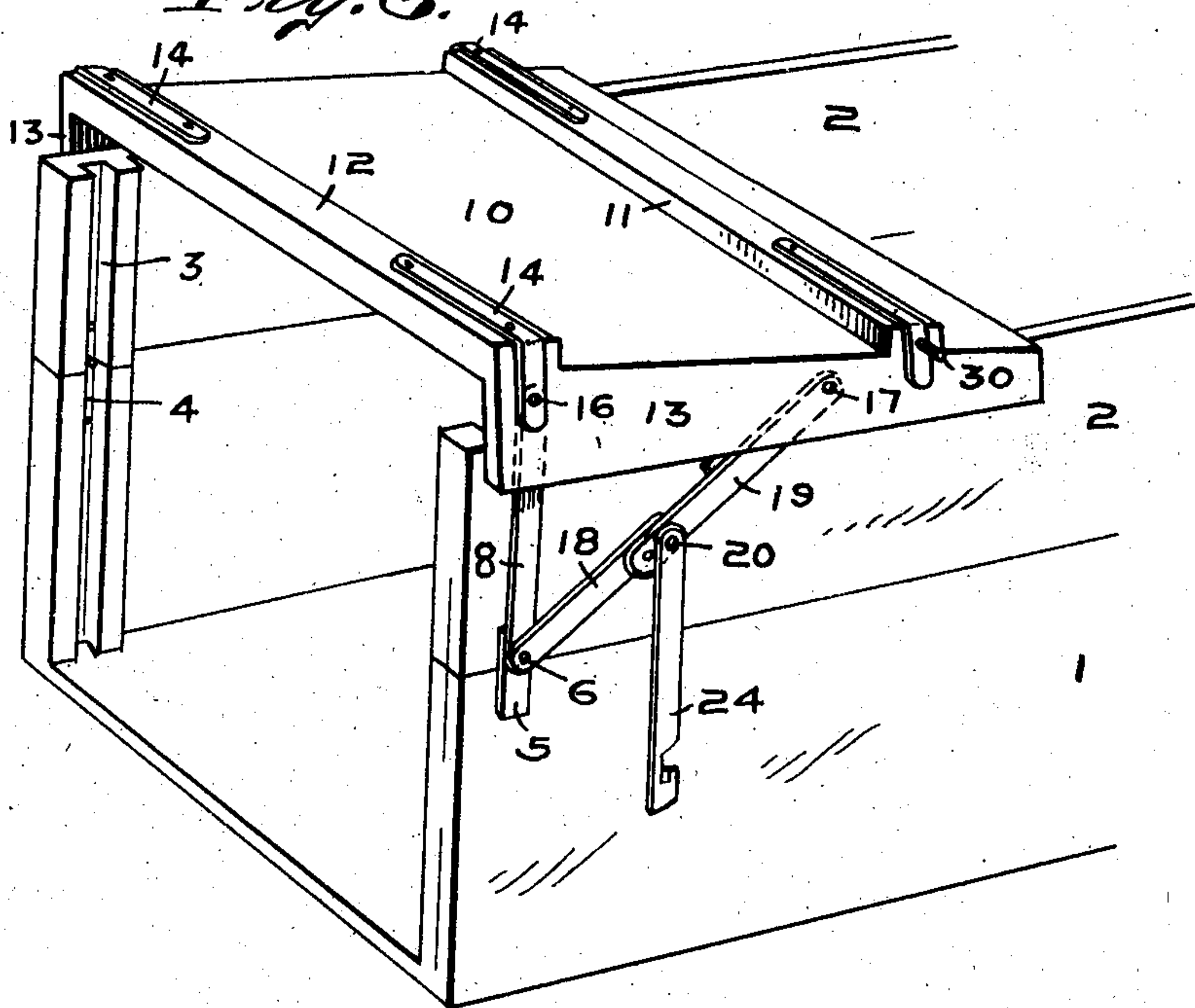


Fig. 5.



WITNESSES:

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ELISHA N. HAMILTON, OF GALVESTON, INDIANA, ASSIGNOR OF ONE-HALF TO WILLIS E. ARMSTRONG, OF GALVESTON, INDIANA.

DUMP AND SCOOP BOARD.

No. 834,380.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed November 28, 1905. Serial No. 289,457.

To all whom it may concern:

Be it known that I, ELISHA N. HAMILTON, a citizen of the United States, residing at Galveston, in the county of Cass and State of Indiana, have invented certain new and useful Improvements in Dump and Scoop Boards, of which the following is a specification.

This invention relates to improvements in adjustable dump and scoop boards for farm-wagons to be applied to the rear end of the wagon-bed after the removal of the usual end-gate with which the bed is equipped; and the object of the invention is to provide a device which will be cheap to manufacture, durable, convenient, and of ready adjustment for daily use.

The objects of the invention are accomplished by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my invention applied to a wagon-bed and in the position which will be given to it for use as a scoop-board. Fig. 2 is a like detail of a wagon-bed with my invention applied thereto and in a closed vertical position for use as an end-gate. Fig. 3 is a detail in side elevation of the end of a bed having my invention, which latter is shown in vertical position in partial vertical section. Fig. 4 is a like view of the end of the bed with my invention in position to permit of the dumping of the load, the device being shown in partial vertical section. Fig. 5 is a perspective view of the end of a bed with my invention applied and in position upon the top of the side-boards of the bed, thus laid back so as to expose a full end opening of the bed; and Fig. 6 is a detail in perspective of the hinge-irons at the top of the bed between the bed and side-boards.

Like characters of reference indicate like parts throughout the several views of the drawings.

1 represents the sides, and 2 the side-boards, of an ordinary wagon-bed. 3 is the groove at the ends of the bed and side-boards formed by parallel vertical strips, which are secured to the said parts sufficiently remote from each other to form the channel to receive the ends of the end-gate, as heretofore made. This end-gate is not shown in the drawings and is not used when the present invention is used.

4 is a flat bar of metal about four inches long and of the same width as the groove 3.

5 is a like metal bar placed on the outside of the bed opposite the first or inside bar 4, and the two are retained in position by the cross-bolt 6, which extends from plate to plate between the top of the bed and the superimposed side-board. This device and, in fact, all parts of my device are duplicated for the opposite side of the bed, and for that reason a description of the near side will suffice for both.

8 is a steel or iron bar which is hinged at its upper end to the bolt 6 and extends down to the bottom of the bed.

10 is the scoop-board, which is strengthened on its outer face by the battens 11 and 12, and it has the ends 13 at right angles, which ends are preferably made tapering, as shown, from the inner toward the outer edge of the board. Metal straps 14, bent at an angle, are fastened to the ends and cleats, so as to bind the corners and strengthen the construction. The lower ends of the bars 8 are pivotally attached, by means of bolts 16, to the ends 13, the bolts passing through the straps 14, as shown.

The outer edge of the scoop-board is supported by metal bars, which extend from the bolts 6 to the bolts 17. These bars are in two parts 18 and 19, which are pivotally united by bolts 20. A series of holes are provided for the bolts 20 to permit of an adjustment in the lengths of these supporting-bars in fitting the scoop-board attachment to the particular wagon-bed. This jointed construction permits of the folding of the parts 18 and 19 together, as shown in Figs. 3 and 4, when the scoop-board is folded up, as in Fig. 3, to form an end-gate or is loosely attached, as in Fig. 4, for dumping purposes. When folded to bring the scoop-board up into position for use as an end-gate, as in Fig. 3, the two sections drop down at their joined ends below a right-angled plane to the board, so as to form a partial lock, and the passing of the bars past each other in this folded position is prevented by the lug 23. A bar 24, longer than either of the parts 18 or 19, is hinged to the same pivot which connects the parts 18 and 19, and the free end of this bar 24, as shown in Fig. 3, is folded back against the board 10 between the wagon-bed and the end 13 of the board. The bar 24 when in the position just described provides

an effective lock to hold the board 10 rigidly in position as an end-gate.

When it is desired to dump a load, the bars 24 are forced up and then outside of the ends 13, and they are then hooked over pins 30, opposite the cleats 11. The bars 24 are provided with hooks at their ends for this purpose. Fig. 4 shows the relative positions of the several parts of the device for the adjustment which has just been described.

When it is desired to present the full opening of the end of the bed without removing the invention above described, by releasing the ends of bars 24 and allowing them to hang free the board 10 can be swung freely up upon the side-boards in the position shown in Fig. 5.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent, is—

1. The combination, with a wagon-bed, of a scoop-board, bars hinged to each side of the bed at one of the ends of each bar and to the scoop-board at their other ends, adjacent to the lower edges of the board, and other bars pivoted to the bed by the same bolts by which the first bars are attached and pivoted at their other ends to the scoop-board near the outer edges of the latter, said last bars being each in two sections of approximately equal lengths united by hinge-joints and hook-bars pivoted near these joints to said two-part bars.

2. A bed, a side-board on the bed, bolts on opposite sides of the bed passing between the side-board and the bed, a scoop-board having

outside pins at its upper ends, a pair of bars connecting the bolts with the lower ends of the board, and a pair of other bars extending from the first bolts to the boards to which the outer ends of said other bars are pivotally secured, said other bars being each in two pieces the ends of which pieces are lapped and bolted together by single bolts forming hinges, means for regulating the lengths of all of said bars and third bars pivoted at their inner ends to a respective one of said two-part bars, said third bars having outer end hooks.

3. The combination of a bed, side-boards for increasing the depth of the bed, bolts on each side of the bed passing between the side-boards and bed, means for securing the bolts, a scoop-board, a pair of bars connecting the bolts with the lower ends of the scoop-board, a pair of other bars extending from the first bolts to the scoop-board and pivotally secured thereto nearer the outer edge than the first attachment, said other bars being in two parts each said two parts being bolted together with single bolts so as to form hinge-joints, and a third bar longer than either of the parts of last-mentioned bar hinged at its end to the bolt hinging the parts together of the two-part bar.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 13th day of November, A. D. 1905.

ELISHA N. HAMILTON. [L. s.]

Witnesses:

JOSEPH A. MINTURN,
F. W. WOERNER.