

E. SHIPMAN.
HINGE CONNECTION FOR FOLDING BASKET RACKS FOR WAGONS.
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967,070.

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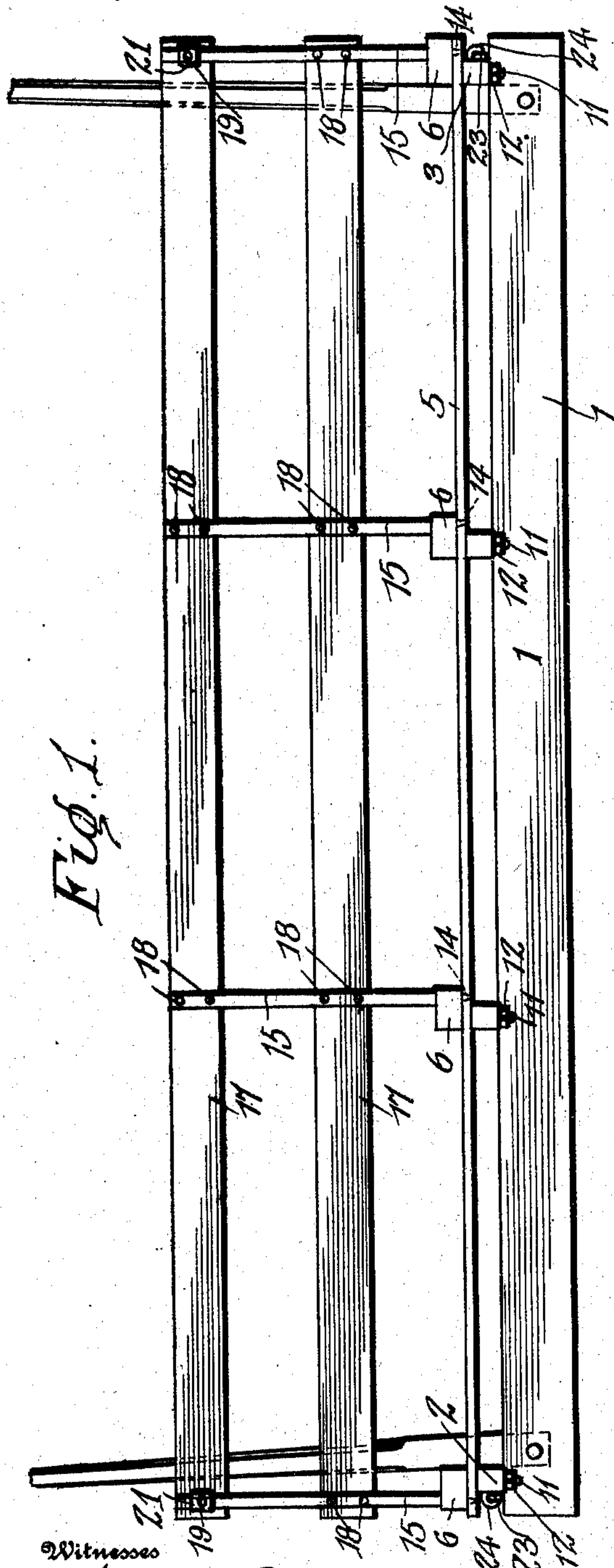


Fig. 1.

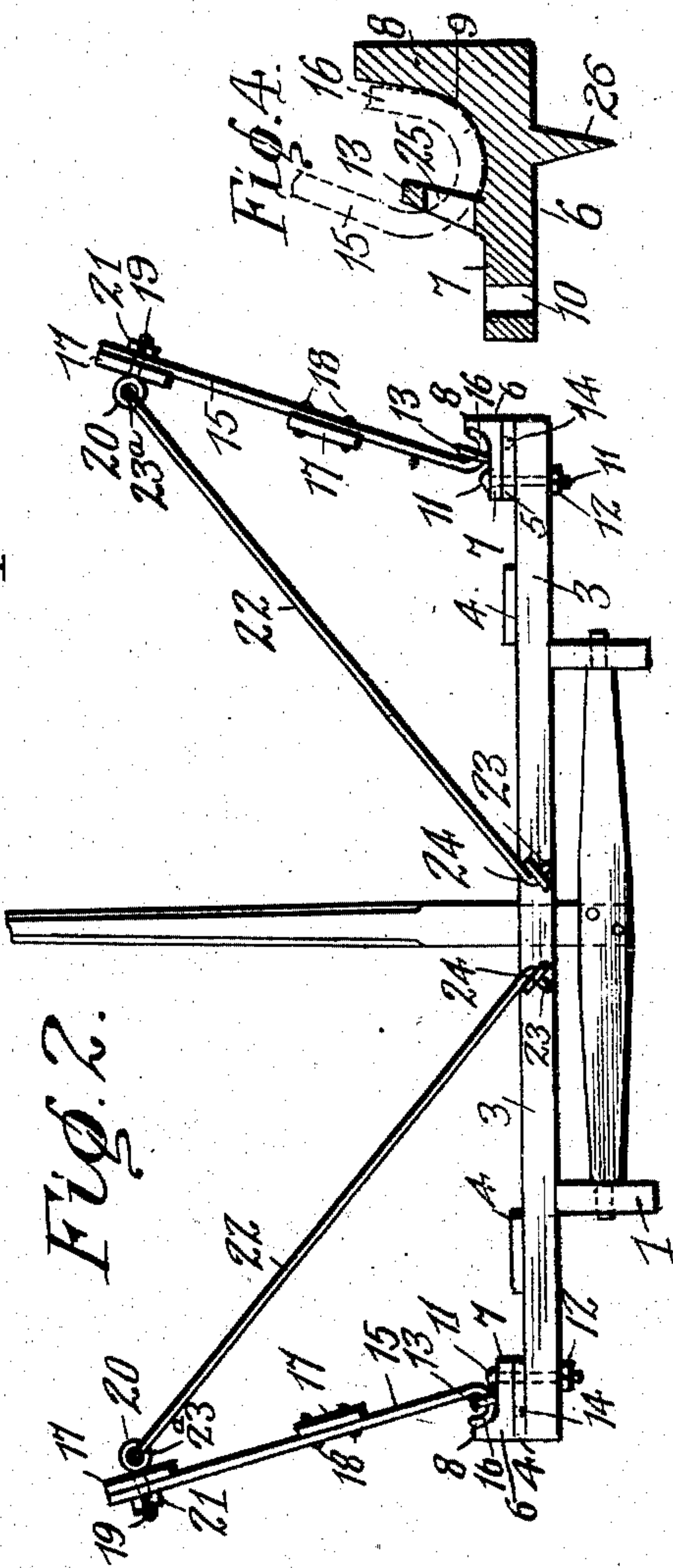


Fig. 2.

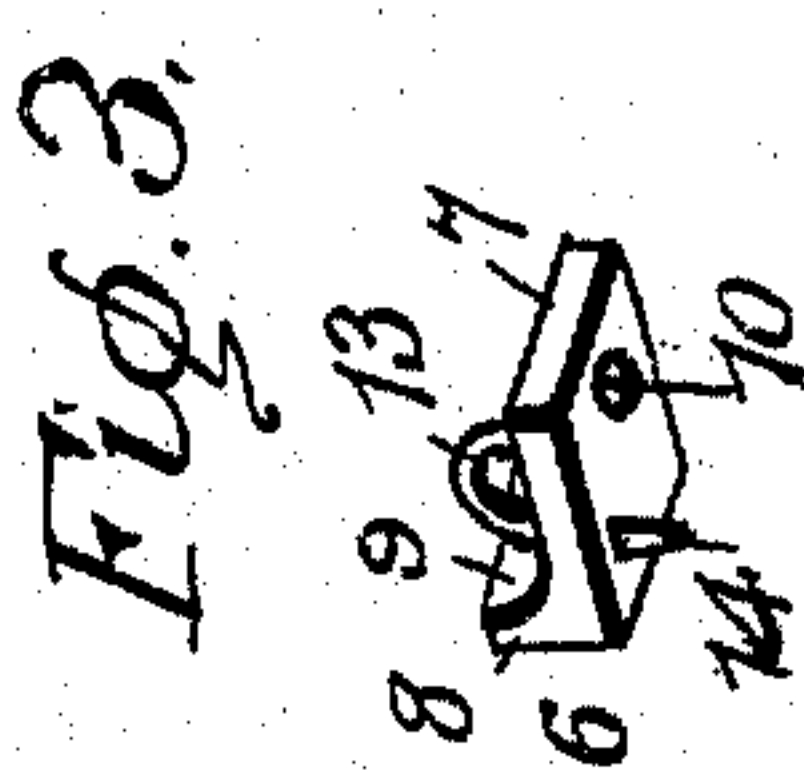


Fig. 3.

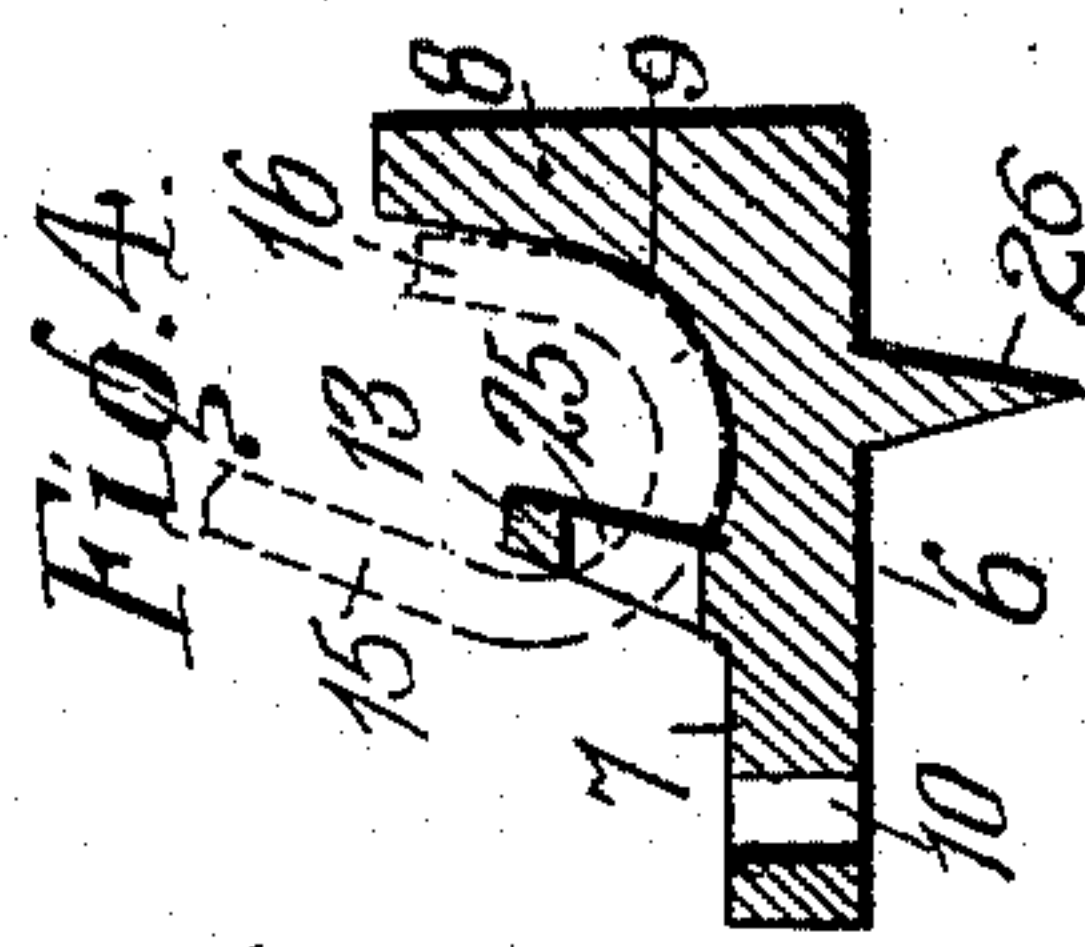


Fig. 4.

Witnesses

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HINGE CONNECTION FOR FOLDING BASKET-RACKS FOR WAGONS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ELMER SHIPMAN, citizen of the United States, residing at Wapello, in the county of Louisa and State of Iowa, have invented certain new and useful Improvements in Hinge Connections for Folding Basket-Racks for Wagons, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to basket racks for wagons, and has specially in view a hinge connection for the same by means of which the racks may be folded onto the body of a wagon or swung to an upright position.

In carrying out the object of the invention generally stated above it is contemplated employing a novel type of hinge casting adapted for detachable engagement with the sides of a wagon and with which co-operates an elongated strap hinge member to which the boards or stringers of the racks are connected.

In connection with the foregoing, brace rods are provided for retaining the racks in an upright position so as to assure a strong and rigid support being provided for the racks.

It will be understood, of course, that the essential features of the invention involved are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein—

Figure 1 is a side elevation of a farm wagon body, showing the same equipped with side racks having the improved hinge connection therewith. Fig. 2 is an end view of the same. Fig. 3 is a detail perspective view of the hinge casting for connecting the side racks to the wagon body. Fig. 4 is a vertical sectional view of a modified form of casting.

Referring to said accompanying drawings, 1 designates the longitudinal side beams of a wagon body which are connected at their ends by the transversely extending bars 2 and 3 which also support the longitudinal side boards 4 and 5 of the wagon body. Said side boards 4 and 5 at their ends and at regularly spaced intervals have hinge castings 6 mounted thereon. The hinge castings 6 are formed with a wide flat base 7 and an upstanding edge 8 which is preferably at right angles to the base 7 and its

inner face merges into said base on an easy curve, as indicated at 9 to form a concaved bearing surface. The base 7 has an opening 10 formed through it for a bolt 11 which also passes through an opening formed in the side boards 4 and 5 so that the casting may be locked thereon by means of the nut 12. A hinge pintle or eye 13 is connected to each casting, said eye being formed by bending a single length of material and having one of its ends resting on or passing into the base of the casting, and its other end passed through said base and provided with a sharp penetrating point 14 for engagement with the side board to which the casting is attached. Preferably the bolt is passed through one portion of the base of the casting and the penetrating point of the eye through another, so that all danger of the casting turning is avoided.

An elongated strap member 15 has one of its ends outturned to provide a rounded hook 16 adapted for engagement with the eye 13 of the hinge casting, one of said members being provided for each casting, said members 15 having the side bars 17 connected to them. When the strap hinge members and the side bars forming the racks are assembled, the connection between the intermediate members and said bars is preferably had by use of rivets or fastening bolts 18, and similarly the ends of the lower bar are secured to the end straps; but the ends of the upper bar are fastened to the outer ends of the end strap members by means of the bolts 19 the heads of which are in the form of eyes 20. Lock nuts 21 may be employed for holding the parts in rigid relation. A brace rod 22 is provided for each end of the racks, said rods having their ends in hook shape, as indicated at 23, 23^a for engagement with the eyes of the bolts 19 and their other ends are adapted for engagement with eyes 24 carried by the transverse end bars 2 and 3 at the ends of the wagon body.

It will be seen from the foregoing that the brace rods may be readily detached from the wagon body to permit the racks to be folded onto said body, and when the racks are in the upright positions shown in Figs. 1 and 2, the same will be rigid with the body. It will also be seen that the hinge castings employed may be readily detached from the wagon body when desired, and through the described concaved bearing formed therein, the rounded hook shaped

end of the strap member may be freely moved while connected with the eye of the casting.

5 In Fig. 4 a variation of the casting is suggested, in which the eye 25 of the castings is integral with the same, and the penetrating spur 26 is also integral. In all other respects this form of the invention is the same as that described in connection with the
10 other figures of the drawings.

What I claim as my invention is:—

As a new article of manufacture a hinge connection of the character described comprising a casting provided with a flat base

and upstanding angular end, said angular 15 end having a concaved surface, a penetrating spur carried by said base on its lower side and an eye carried by its upper side, and an elongated hinge leaf having a hook shaped rounded end for engagement with 20 said eye and adapted to rock on said concaved surface.

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

ELMER SHIPMAN.

Witnesses:

FRED GALL,

CHARLES BATES.