F. A. CRANDALL.

TRUCK BODY.

APPLICATION FILED FEB. 6, 1919.

1,328,130.

Patented Jan. 13, 1920.

2 SHEETS—SHEET 1.

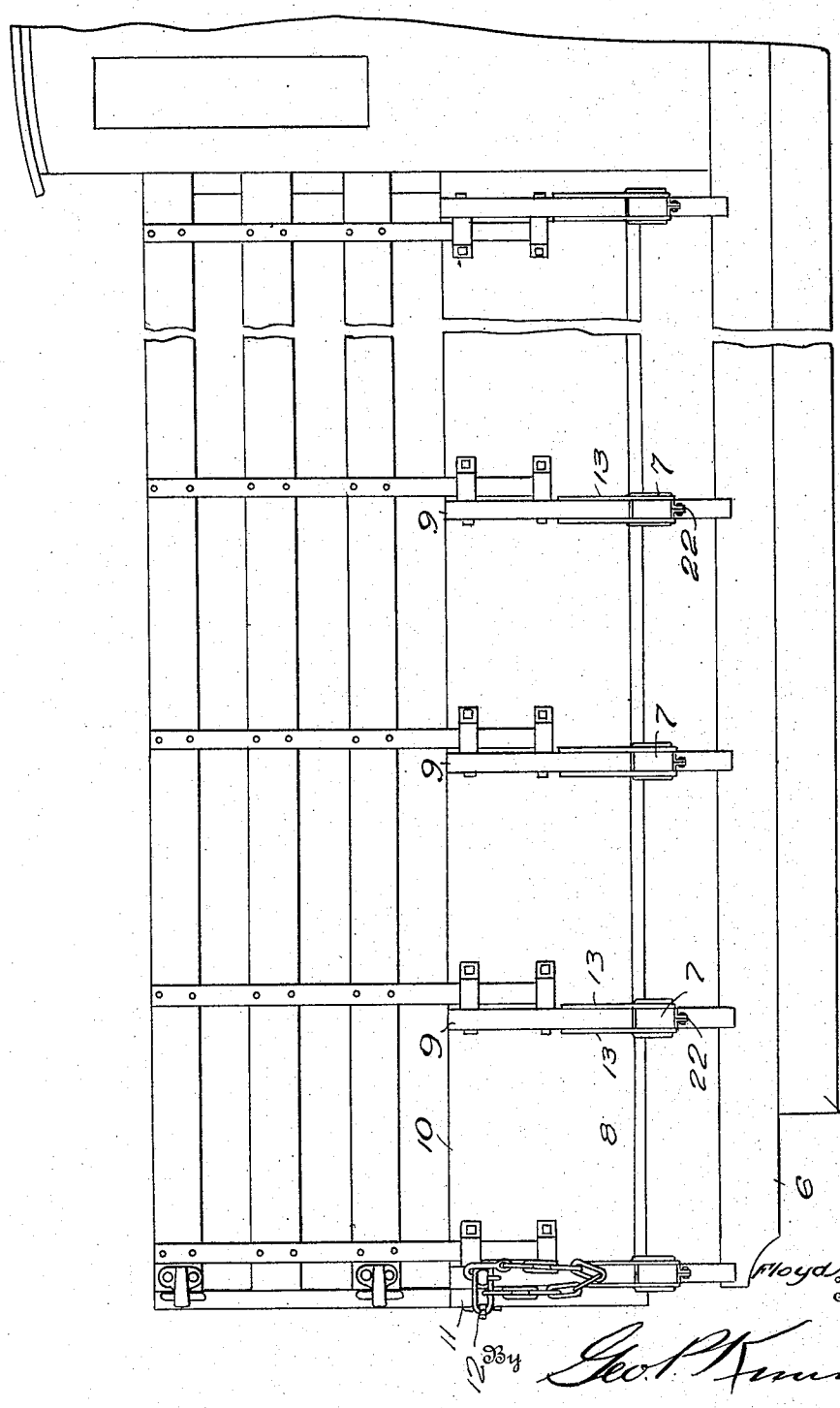


Fig. 1.

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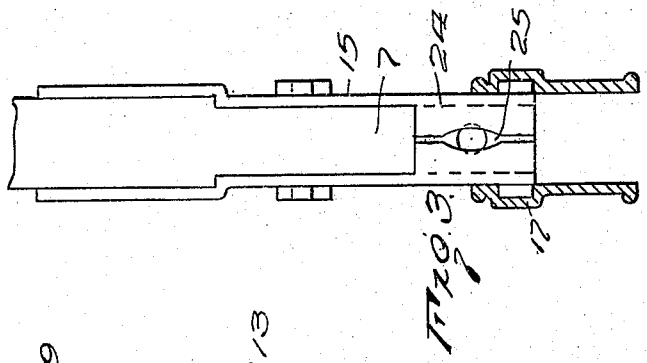


FIG. 3.

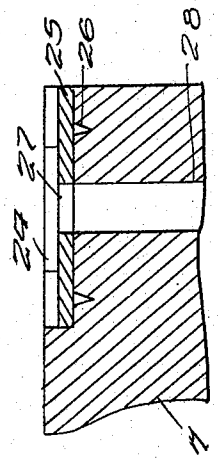


FIG. 5.

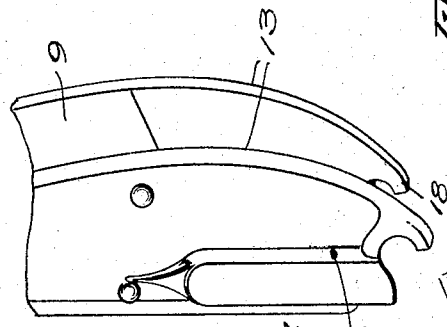


FIG. 4.

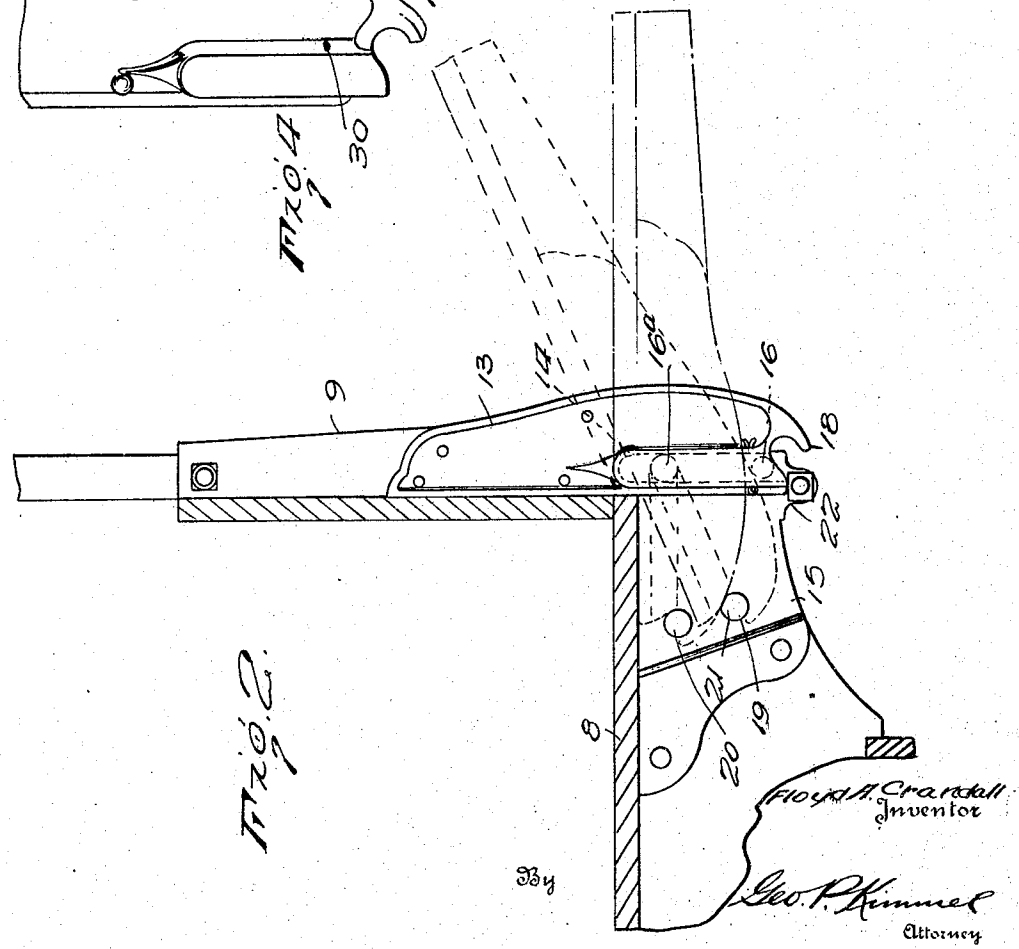


FIG. 2.

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UNITED STATES PATENT OFFICE.

FLOYD A. CRANDALL, OF FLINT, MICHIGAN.

TRUCK-BODY.

1,328,130. Specification of Letters Patent. Patented Jan. 13, 1920.

Application filed February 6, 1919. Serial No. 275,332.

To all whom it may concern:

Be it known that I, FLOYD A. CRANDALL, a citizen of the United States, residing at Flint, in the county of Genesee and State of Michigan, have invented certain new and useful Improvements in Truck-Bodies, of which the following is a specification.

This invention relates to improvements in bodies for trucks and more particularly to that type of body equipped with adjustable sides.

The invention has for its primary object to provide an improved support for the side supporting members or arms of the truck body whereby the sides may be supported in various angular positions.

Another object is the provision of an adjustable supporting bracket for the side members which is effectively retained in adjusted position by its own weight and that of the sides.

Another object is the provision of an adjustable support or bracket for the side supporting members including a stud constituting a fulcrum upon which the arm or supporting member may be swung into various desired positions and the arm coacting with a series of spaced studs arranged upon one of the supporting beams or other relatively stationary parts of the truck to rigidly lock the arm or supporting member in adjusted position.

With the above and other objects in view, as will appear as the description proceeds, the invention comprises the novel combination and arrangement of parts together with the specific construction, operation and advantages of the device taken in connection with the accompanying drawings, in which:—

Figure 1 represents a fragmentary side elevation of a motor truck illustrating the invention applied to use,

Fig. 2 represents a fragmentary vertical sectional view through the body of the truck illustrating the adjustable support or bracket in detail,

Fig. 3 represents a detail sectional view through the supporting bracket in a horizontal plane directly below the floor of the body,

Fig. 4 represents a fragmentary perspective view of the lower terminal of one of the supporting members or arms, and

Fig. 5 represents an enlarged fragmentary sectional view taken longitudinally through one terminal of the floor supporting beam.

Referring to the drawings in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates a fragment of the chassis of a preferred type of motor truck supporting the longitudinal bed pieces 6 upon which are arranged the spaced transverse floor supporting beams 7. The floor 8 is arranged above and supported upon the beams 7 and the supporting members or arms 9 having pivotal and adjustable connection with the terminals of the beams 7 while the improved type of bracket or fastener to be hereinafter more fully described supports the sides 10 laterally of the floor 8. A preferred type of end gate 11 is hingedly or otherwise supported by the rear terminal of the floor 8 and is supported in operative position by an end gate fastener 12.

The bracket or connection supporting the arm 9 upon the terminal of each beam 7 consists of a pair of plates 13 secured to and projecting beyond the terminal of the arm 9 and providing bifurcations receiving the terminal of the beam 7. The lower terminal 14 of the arm rests upon the upper edge of the beam 7 and assists in maintaining the arm in a vertical position as illustrated in full lines in Fig. 2 and the portions of the beam 7 lying in frictional contact with the inner surfaces of the plates 13 are covered by wear plates 15 provided with integral pairs of lugs 16 and 16^a, the lugs of the respective pairs being vertically alined. The plates 13 are provided with internal longitudinal slots 17 formed by striking out portions of the material of the plates and the lower ends of the slots are open to permit of the withdrawal of the lowermost retaining lug 16 therefrom. The grooves or slots 17 are of such lengths as to accommodate both of the vertically alined lugs 16 and 16^a heretofore mentioned, and the side walls of such grooves coact with the pins to rigidly maintain the arm in a vertical position; however, by slightly elevating the arm until the lowermost lugs 16 are withdrawn from the slots the arms may be swung outwardly and downwardly upon the upper fulcrum

lugs 16ª into various angular positions with relation to the floor 8 as suggested in dotted lines in Fig. 2.

The extremities of the plates 13 are hooked as indicated at 18 to coöperate with a supplementary pair of retaining lugs 19 carried by the plates 15 to support the arm 9 in an inclined position and the beaks of the hooks are of such length as to prevent accidental longitudinal withdrawal of the arm incident to vibration of the truck during travel or stress of the load supported thereon.

A third pair of lugs 20 is arranged above the retaining lugs 19 and carried by the plates 15 and coacts with the hooks 18 to effectively lock the arms or supporting members 9 in horizontal position. The outer edges of the plates 13, or those edges remote from the floor 8, are bulged to increase the strength and rigidity of the structure and to afford an abutment for engagement with the flattened surfaces 21 of the lugs 19 when the pins or lugs 20 are engaged with the hooks 18.

The lower edges of the plates 15 are provided with angular depending ears 22 bolted or otherwise rigidly connected as indicated and the upper edges of the plates are provided with angular extensions 24 overlying a wear plate 25 countersunk in the beam 7 whereby tendency of the plates 15 to slide downwardly upon the beam 7 is eliminated. The under surface of the wear plate 25 is provided with anchoring tongues 26 inserted in the material of the beam 7 and an opening 27 is also formed through the plate registering with a corresponding opening 28 in the adjacent terminal of the beam 7 for the reception of fastening screws or pins carried by the floor 8 whereby the latter is secured in position upon the beams 7. The lateral extensions 24 are spaced apart a distance slightly less than the diameter of the opening 27 and constitute gripping members for coaction with the fastening element projected into the opening to retain it in position and prevent accidental withdrawal. A cotter or other type of pin may be fitted in openings 30 formed in the side walls of each groove 17 to prevent withdrawal from the uppermost fulcrum lug 16.

What I claim is:—

1. A device of the character described including a floor supporting beam, pairs of vertically alined superposed lugs carried by the beam, an adjustable arm, bifurcations carried by said arm provided with longitudinal grooves having open outer terminals receiving the lugs and retaining the arm in a predetermined angular position with relation to the beam, the uppermost lugs constituting a fulcrum permitting swinging movement of the arm subsequent to the withdrawal of the lower lugs, and detachable means preventing withdrawal of the upper lugs from the grooves.

2. A device of the character described including a floor supporting beam, vertically alined lugs carried by said beam, an adjustable supporting arm, and bifurcations carried by the arm each provided with a groove having an open end receiving the vertically alined lugs and retaining the arm in vertical position.

3. In a device of the character described, a floor supporting beam, opposed sets of vertically alined lugs carried by the terminal of said beam, an adjustable arm, and bifurcations carried by the arm embracing the lugged terminal of the beam and each provided with an internal groove receiving one set of lugs to maintain the arm in adjusted position.

4. A device of the character described including a floor supporting beam, opposed sets of lugs carried by said beam, an adjustable arm, and bifurcations carried by the arm provided with internal open ended grooves receiving the lugs, retaining the arm in adjusted position and permitting longitudinal withdrawal of the arm from the lugged terminal of the beam.

5. A device of the character described including a floor supporting beam, fulcrum lugs carried by said beam, an adjustable arm, bifurcations carried by the arm provided with internal grooves, slidably and pivotally receiving the fulcrum lugs, retaining lugs carried by the beam adapted to enter the terminals of the grooves to maintain the arm in adjusted position, and means carried by said beam coacting with the terminals of the bifurcations to maintain the arm in various other adjusted positions.

6. A device of the character described including a beam, fulcrum lugs carried thereby, an adjustable arm, bifurcations carried by said arm provided with internal grooves, pivotally and slidably receiving the fulcrum lugs, said grooves having open ends, retaining lugs adapted for reception in the open terminals of the grooves to maintain the arm in an adjusted position, said arm being capable of longitudinal withdrawal from both the fulcrum and retaining lugs.

7. A device of the character described including a beam, fulcrum lugs carried thereby, an adjustable arm provided with internally grooved bifurcations slidably and pivotally receiving the fulcrum lugs, retaining lugs carried by the beam adapted for insertion in the terminals of the grooves to maintain the arm in adjusted position, said arm being capable of longitudinal withdrawal from both the fulcrum and retaining lugs, and removable means engaged with the grooved portions of the bifurcations to prevent withdrawal of the arm from engagement with the fulcrum lugs.

8. A device of the character described including a beam, an adjustable arm, bifurcations carried by the arm provided with internal grooves, fulcrum lugs carried by the beam pivotally and slidably received in said grooves, said grooves having open ends, retaining lugs adapted for insertion in the terminals of the grooves to maintain the arm in an adjusted position, hook members carried by the bifurcations, and supplementary retaining lugs carried by the beam adapted for engagement with the hook members of the arm to maintain the latter in various other adjusted positions.

9. A device of the character described including a supporting beam, opposed sets of lugs carried by said beam, an arm, bifurcations carried by said arm provided with grooves adapted to simultaneously receive the opposed sets of lugs to maintain the arm in an adjusted position, one set of lugs constituting a fulcrum permitting the arm to swing upon withdrawal of the other sets of lugs, hook members carried by the terminals of the bifurcations, and means carried by the beam coacting with the hook members to maintain the arm in various adjusted positions.

10. A device of the character described comprising a supporting beam, lugs carried by said beam, an adjustable arm, bifurcations carried by said arm provided with internal grooves slidably and pivotally receiving said lugs, pins removably fitted in the grooved portions of the bifurcations preventing withdrawal of the bifurcations from the lugs, and means coacting with the terminals of the bifurcations to retain the arm in various adjusted positions.

11. A device of the character described comprising a beam, side plates secured to the beam, lugs carried by the side plates, an arm adjustably supported by said lugs, angular extensions carried by the side plates overlying the terminal of the beam, and a wear plate interposed between the angular extensions of the plates and the beam.

In testimony whereof, I affix my signature hereto.

FLOYD A. CRANDALL.