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D. TIMIDAISKI

STAKE SECURING MEANS

Filed May 14, 1924

Fig. 1.

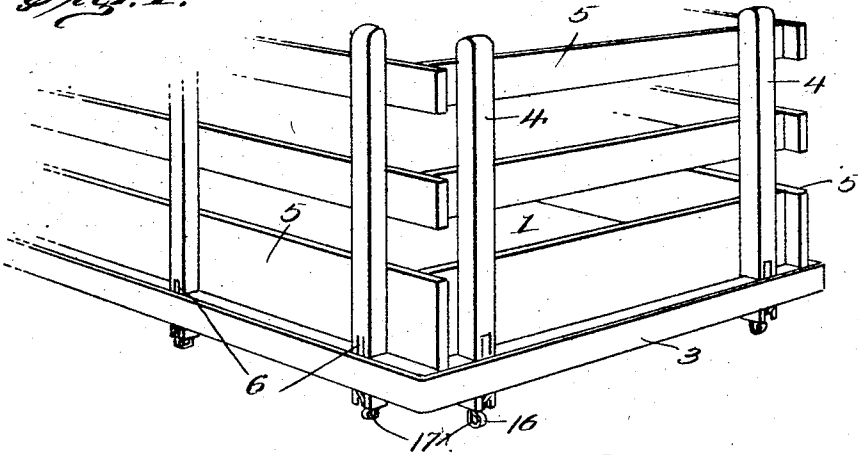


Fig. 2.

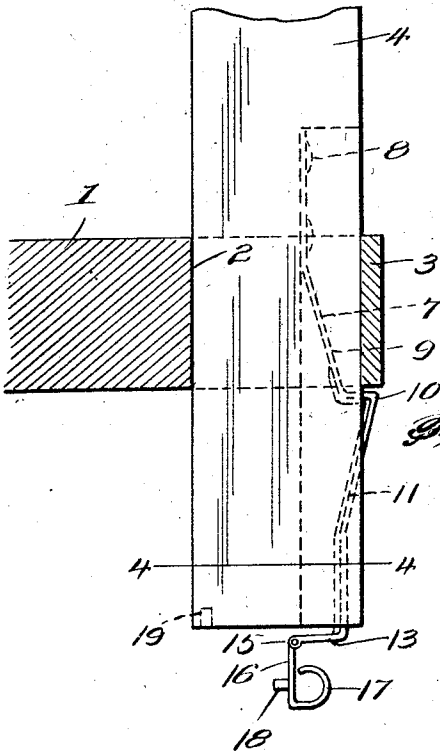


Fig. 3.

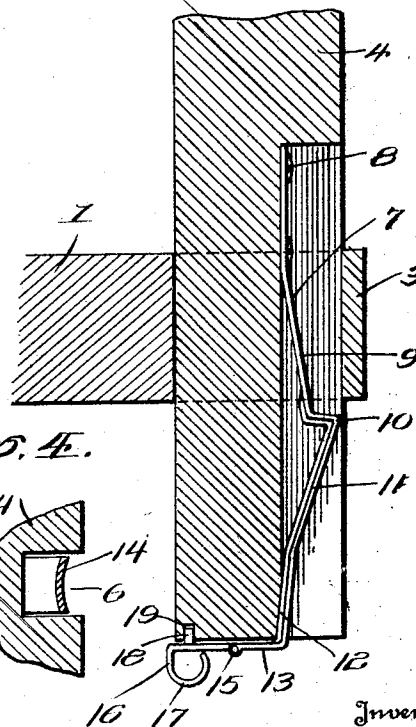
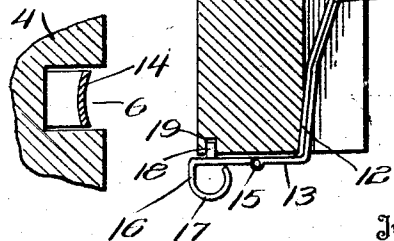


Fig. 4.



Inventor
David Timidaiski

By *Clarence A. Brown*
Attorney

UNITED STATES PATENT OFFICE.

DAVID TIMIDAIKI, OF SCOBEEVILLE, NEW JERSEY.

STAKE-SECURING MEANS.

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To all whom it may concern:

Be it known that I, DAVID TIMIDAIKI, a citizen of the United States, residing at Scobeyville, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in a Stake-Securing Means, of which the following is a specification.

This invention relates to new and useful improvements in means for securing stakes on wagon body bottoms and has for its principal object to provide a means whereby the stake may be readily and easily disengaged from locked engagement with the bottom and removed therefrom.

A further object of the invention is to provide a device of the above mentioned character, which will normally hold the stakes in proper position so as to prevent the accidental displacement of the same from the bottom of the vehicle wagon body.

A still further object of the invention is to provide a device of the above mentioned character, wherein means is associated with the stake securing means for releasing the securing means and holding the same in an inoperative position.

A further object of the invention is to provide a device of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designed.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawing forming part of this specification and in which like numerals designate like parts throughout the same:

Figure 1 is a fragmentary perspective view of a wagon body bottom showing a plurality of stakes supported thereon and with my invention shown in conjunction therewith.

Figure 2 is a fragmentary side elevation of one of the stakes with the securing means in its normally locked position.

Figure 3 is a sectional view of the stake showing the locking means in an inoperative position, and

Figure 4 is a sectional view taken approximately on line 4—4 of Figure 2.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates

the bottom of a vehicle body preferably of a truck, and the same is provided with notches in the sides thereof in the manner shown at 2 in the drawing at predetermined spaced interval. Extending around the side edges of the bottom of the vehicle body is the usual metallic band 3, and the same cooperates with the notches to provide pockets for receiving the usual stakes 4. The stakes support the slats 5 in the manner well known in the art and the same provides sides and ends for the vehicle body. With the stakes now in use, the same frequently become disengaged from the pockets provided for the lower ends thereof and for the purpose of securing the stakes in proper position I have provided a simple and efficient securing means therefor.

Each stake is provided in the outer face thereof adjacent its lower end with a longitudinally extending slot or recess 6. The recess is adapted to communicate with the lower end of each stake in the manner clearly shown in Figure 3 of the drawing. The securing means comprises a single strip of metal which is secured at its upper end in the upper portion of the slot as shown at 8. The strip is then disposed at an incline outwardly as shown at 9 and the inclined portion terminates in the lateral extension 10 which provides a stop for engagement with the lower edge of the band 3 in the manner clearly shown in Figure 2 of the drawing.

The portion of the strip 7 below the stop 10 is directed inwardly as shown at 11 and extends downwardly as indicated at 12 to the bottom of each stake and is then disposed rearwardly as illustrated at 13. The portion between the stop 10 and the inwardly disposed portion 13 is curved in cross section as illustrated more clearly at 14 in Figure 4 and the purpose of this construction is to render this particular portion rigid in order that the stop may maintain its proper formation. The only elasticity or resiliency provided being in the portion 9.

Hinged to the outer end of the rearwardly extending portion 13 as illustrated at 15 is the releasing lever 16 and the same is provided with a suitable curved handle 17 on the outer end thereof for actuating the same. The lever 16 is provided with a projection 18 which is adapted to cooperate with a suitable recess 19 provided in the bottom of each stake and the purpose thereof will hereinafter be more fully described.

Normally the parts are arranged as shown in Figure 2 of the drawing and the stakes are inserted in the pockets formed by the notches and the band which extends around the side edges of the bottom of the body and after the lower ends of the stakes have been inserted so that the stops 10 engage the lower edges of the band in the manner shown in Figure 2. When in this position, the stakes are supported against accidental displacement from the bottom of the vehicle body. When it becomes necessary to remove the sideboards and the stakes upon which the same are mounted from the bottom of the vehicle body, the lever 16 which is associated with the strip 7 secured in the recess 6 of each of the stakes is pulled upwardly and then moved inwardly so as to disengage the stop member 10 from the stand 3 and retract the same within the slot or recess 6. The projection 18 will then be seated in the recess 19 provided in the bottom of the stake whereby the stop member will be held in a retracted position so as to enable the stakes to be removed from the bottom of the body in a comparatively simple and efficient manner.

As stated heretofore the provision of the lower portion of the strip of concaved construction will render the same rigid and prevent the stop member from being sprung when the lever is actuated.

It will thus be seen from the foregoing description, that a securing means for stakes in connection with the bottoms for vehicle bodies has been provided which will automatically be moved to a locked position when the stakes are inserted in the notches provided therefor in the bottom and furthermore the lever provides a means for enabling a person to readily and easily disengage the locking means from its normal position whenever it becomes necessary to remove the stakes from the bottom.

A device of this character may be manufactured at a very low cost and will further be of such a construction as to facilitate the application thereof on stakes now in use.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape

and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what I claim is:—

1. In combination with the bottom of a vehicle body having notches in the sides thereof, a band extending around the side edges of the bottom, stakes adapted to be inserted in said notches, each stake having a longitudinal recess provided in the lower end of the outer face thereof, a spring catch seated in the recess and normally engaging the lower edge of said band to hold the stake in position in the notch, means for releasing the catch from engagement with the band, means for holding the catch in a released position, said means comprising a lever pivoted to the lower end of the catch and extending along the bottom of each stake, said lever having a projection thereon for engagement with a notch in the bottom of the stake whereby the catch is held in a retracted position.

2. In combination with the bottom of a vehicle body having notches arranged in the sides thereof, a band extending around the side edges of the bottom, stakes adapted to be inserted in said notches, each stake having a longitudinal recess provided in the lower end of the outer face thereof, a metallic strip secured at its upper end in said recess, a stop member formed in the intermediate portion of said strip and adapted to normally engage the lower edge of the band for holding the stake against accidental displacement from the notch provided therefor, the lower end of the strip extending below the lower end of the stake and disposed inwardly adjacent the bottom of the stake, a lever pivoted to the free end of said inwardly extending portion for retracting the stop from engagement with the band, and a projection formed on said lever and adapted to be seated in a recess provided in the bottom of the stake for holding the stop member in a retracted position.

In testimony whereof, I affix my signature.

DAVID TIMIDAISKI.