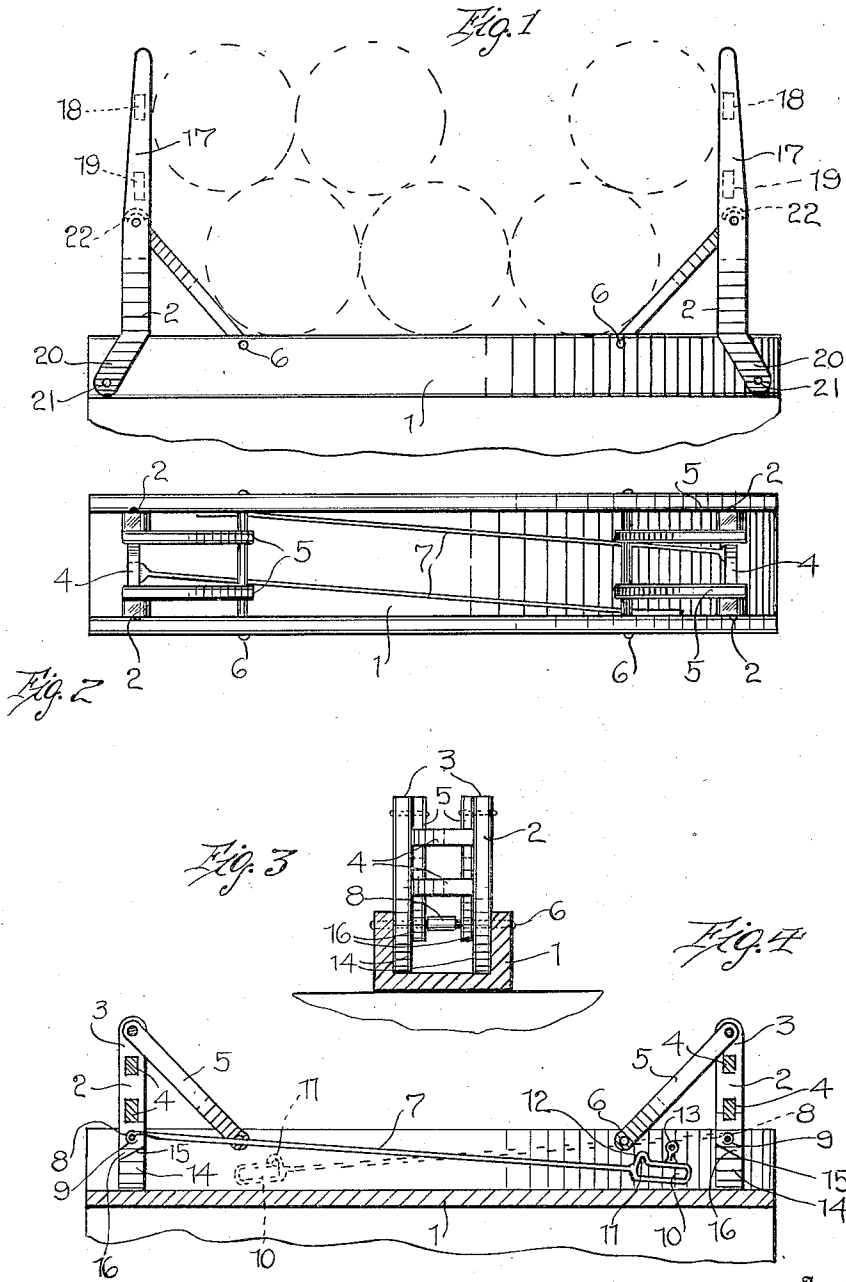


F. J. LIBBY.
 COMBINED CAR STAKE AND BUNK.
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1,057,563.

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Inventor
 F. J. Libby

Witnesses
 Robert M. Sutphen.
 A. I. Hird.

By *Watson E. Coleman*
 Attorney

UNITED STATES PATENT OFFICE.

FREDERICK J. LIBBY, OF TACOMA, WASHINGTON.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK J. LIBBY, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Combined Car Stakes and Bunks, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to a combined car stake and bunk and more particularly to a stake and bunk which is particularly adapted for use upon log cars and the like, the object of the invention being to provide a device of this character whereby the stake may be held securely in place and at the same time may be quickly and readily released when it is desired to unload the car.

15 Another object of the invention is to provide in combination with my improved car stake and bunk an attachment adapted to be applied when it is desired to load the car with telephone poles, piles and other material of this character which are substantially small in circumference so that a greater number may be loaded on the car.

20 A further object of the invention is to provide a device of the above character which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

25 With the above and other objects in view, the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which—

30 Figure 1 is a side elevation of a combined car bunk and stake constructed in accordance with my invention. Fig. 2 is a top plan view. Fig. 3 is an end elevation and Fig. 4 is a longitudinal sectional view.

35 Referring more particularly to the drawings, 1 indicates my improved bunk which is substantially U-shaped in cross section, the bottom of which is cut away at the ends thereof. The stake members 2 are preferably constructed of two parallel side portions 3 suitably connected adjacent their ends by

means of the cross pieces 4. The upper ends of the side portions of the stakes 2 are pivotally connected to the outer ends of the brace members 5, said brace members being of substantially the same construction as the stakes and having their inner ends arranged upon the inner sides of the side portions of the bunk and pivotally secured thereto as shown at 6.

40 A trip rod 7 is provided having a sleeve 8 formed at one end and adapted to be mounted upon the transverse rod 9 at the lower ends of the members and having its other end provided with an elongated slot 10 in which is adapted to operate a pin 11 secured to the side of the bunk. The slot 10 is provided with an offset portion 12 adapted to receive the pin when the rod is in a locked position. A locking member 13 is pivotally secured to the side of the bunk and adapted to engage the slotted end of the rod to securely hold the offset portion 12 into engagement with the pin and preventing longitudinal movement of the rod.

45 Formed integral with the inner sides of the bunk are the elongated enlargements 14 which are provided with a tapering upper end 15 formed co-incidental with the tapering lower ends 16 of the stake members 2, thus when the lower ends of the stakes are released they will readily drop down at the end of the bunk. In securing the stakes in position, they are raised so that the lower ends thereof rest upon the enlarged portions 14, the offset portion 12 at the slotted end of the rod engaging over the pin 11 to securely hold the stakes in position thereon. Brace members 5 are provided to prevent the logs from bearing directly upon the stake members and also to help support the same in their upright position. It will be apparent that the stakes 2 may be readily released by raising the locking members 13 and disengaging the offset portion 12 from the pin 11 so that the lower ends of the stakes may readily slide from the tapering end of the enlarged portion 14.

50 In Fig. 1, I have shown my improved attachment which is in the form of two spaced upright members 17 which are suitably connected by the cross pieces 18 and 19, said

uprights having their lower ends disposed at an angle as shown at 20 and pivotally mounted upon a transverse pin 21 which is carried by the end of the bunk. The cross piece 18 is provided upon its under side with a cup shaped recess 22 which is adapted to receive the rounded upper end of the stakes 2 and brace members 5 to securely support the attachment in an upright position until the rods 7 are actuated to release the stakes. When the stakes 2 are released, it will be apparent that any pressure against the upper end of the attachment will readily press the same outward. This attachment is especially adapted for use when the car is to be used in hauling telephone poles, piles and other similar material of this character which is substantially small in circumference so that a greater number may be piled upon the car.

From the foregoing taken in connection with the accompanying drawings, it will be readily apparent that I have provided a simple and durable combined car stake and bunk whereby the stakes at the ends of the bunk may be readily placed in position and securely held or may be quickly and easily released. It will also be apparent that the device is extremely simple in construction and can be manufactured at a comparatively low cost.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope of the appended claims.

What I claim is:—

1. In a device of the character described, the combination of a bunk U-shaped in cross section, enlarged portions formed upon said bunk, brace members pivotally secured to the bunk, stakes pivotally secured to the other ends of said brace members and normally resting upon the enlarged portions, means for retaining said stakes in a normal position and said means being actuated to release the stakes.

2. In a device of the character described, the combination of a bunk U-shaped in cross section, enlarged portions formed on said bunk and provided at their upper ends with inclined faces, brace members pivotally secured to said bunk, stakes pivotally secured to the other ends of said brace members, having tapering lower ends adapted to normally rest upon the inclined faces of the enlarged portions, a rod having one end secured to the lower ends of the stakes and the other end adjustably secured to the bunk to retain said stakes in a normal position and for releasing the same.

3. In a device of the character described, the combination of a bunk U-shaped in cross section, enlarged portions formed upon said bunk and provided at their upper ends with inclined faces, brace members pivotally secured to the bunk, stakes pivotally secured to the other ends of the brace members and having tapering lower ends adapted to rest upon the inclined faces of the enlarged portions, a rod having one end secured to the lower ends of the braces and having an elongated slot formed in the other end, said slot being provided with an offset portion adjacent one end, a pin carried by the bunk and adapted to be normally disposed within said offset portion to retain the stakes in a normal position, a locking member pivotally secured to the side of the bunk and adapted to engage the slotted end of the rod to retain the same in a locked position, said locking member being actuated to release the slotted end of the rod so that the same may be actuated to release the stakes from their normal position.

4. In a device of the character described, the combination of a bunk, U-shaped in cross section, enlarged portions formed upon said bunk and provided at their upper ends with inclined faces, brace members pivotally secured to said bunk, stakes comprising parallel side portions, cross members connecting said side portions, each of said side portions being provided at their lower ends with inclined faces adapted to normally rest upon the inclined faces of the enlarged portions, a connecting rod having its ends secured to the lower ends of the parallel portions of the stakes, a rod having a sleeve formed at one end and adapted to be loosely mounted upon said connecting rod and the other end of said rod being adjustably secured to the bunk to retain said stakes in a normal position and for releasing the same.

5. In a device of the character described, the combination with a bunk, brace members pivotally secured thereto, stakes pivotally secured to the other end of the brace members, and normally disposed in a vertical position, of spaced upright members, cross pieces connecting said uprights, said uprights having their lower ends disposed at an angle and pivotally secured at the ends of the bunk, one of said cross pieces being provided with a cup shaped recess to receive the upper ends of the stakes and brace members whereby the uprights will be supported in a vertical position, means for retaining said stakes in a normal position, said means being actuated to release the stakes and the upright members.

6. In a device of the character described, the combination with a bunk, brace members pivotally secured thereto and stakes pivotally secured to said brace members, of

pivotally secured spaced upright members,
cross pieces connecting said uprights, one
of said cross pieces being provided with a
cup shaped recess to receive the upper ends
5 of the stakes and brace members whereby
the uprights will be supported in a vertical
position.

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

FREDERICK J. LIBBY.

Witnesses:

ALLAN SEYMOUR,
HARRY R. MULLEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
