No. 647,642. Patented Apr. 17, 1900.

W. H. BARTEN.

BOLSTER STAKE.

(Application filed Aug. 31, 1899.)

(No Model.)

Fig. 1.

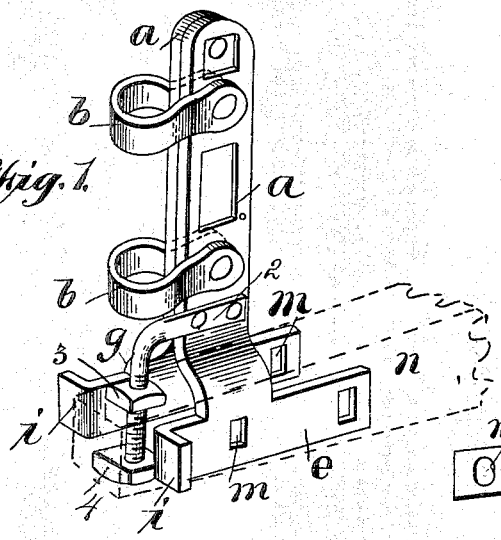


Fig. 3.

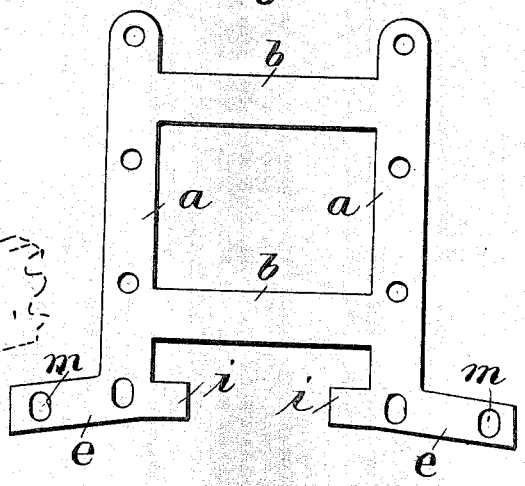


Fig. 2.

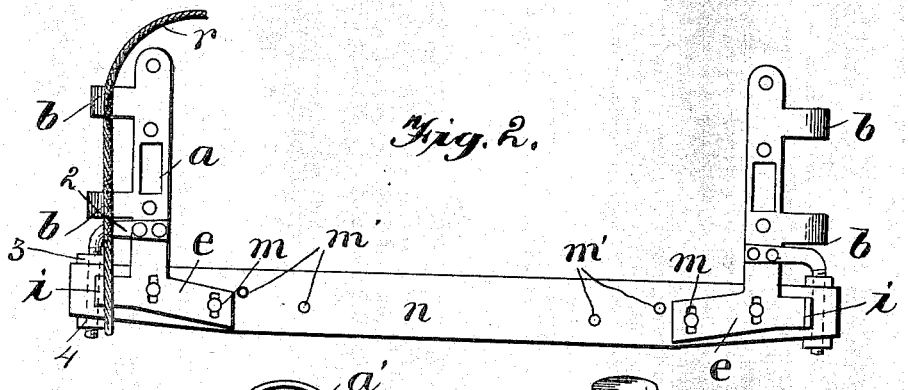


Fig. 4.

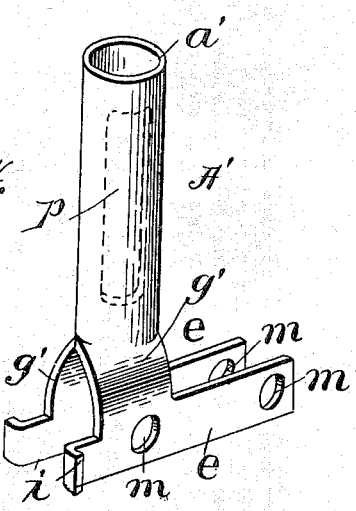
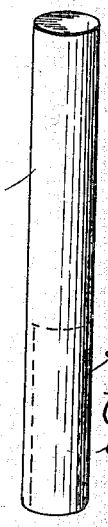


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM H. BARTEN, OF ALLEN, SOUTH DAKOTA.

BOLSTER-STAKE.

SPECIFICATION forming part of Letters Patent No. 647,642, dated April 17, 1900.

Application filed August 31, 1899. Serial No. 729,084. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BARTEN, a citizen of the United States, residing at Allen, in the county of Washabaugh and State of South Dakota, have invented new and useful Improvements in Bolster-Stakes, of which the following is a specification.

My invention relates to improvements in bolster-stakes which are especially adapted for use in connection with wagons, but which are also adapted to be used in other connections, as will be fully described hereinafter, and particularly referred to in the claims.

The primary object of my invention is to produce a simple and consequently cheap bolster-stake which is so constructed that it is adapted to be applied to bolsters of varying sizes and when applied is capable of being quickly and readily tightened when it becomes loose from the shrinkage of the wagon-bolster or from other causes.

In the accompanying drawings, Figure 1 is a perspective view of a bolster-stake which embodies my invention, the same being shown applied to a bolster, the latter being shown in dotted lines. Fig. 2 is a side elevation of the same, showing it applied to a bolster. Fig. 3 is a plan view of a blank of which my bolster may be formed when composed of a single piece stamped or otherwise formed. Fig. 4 is a view of my stake, showing a modification therein in which the standard portion thereof is formed into a tubular shape. Fig. 5 is a detached view of a supplementary or auxiliary stake of tubular form.

Referring now to the drawings, *a* indicates the standards of which my stake is composed and which, as shown in Fig. 1, are formed of two separate pieces. The lower ends of these standards diverge, as shown at *g*, to receive between them the bolster, as indicated by dotted lines *n*, Fig. 1. These standards have their lower ends provided with inwardly and horizontally extending ears or projections *e*, which extend along opposite sides of the bolster, and also with the outwardly-projecting horizontal ears *i*, which have their extremities turned laterally in opposite directions, as illustrated, to constitute projections or hooks to hold in place load-binding chains or cords *r*. (Shown in Fig. 2.)

I attach my stake to the bolster by means of bolts which pass through the openings *m m*, made in the lower ends of the standards and in the inner ends of the ears *e*, which places the corresponding openings in the bolsters at a point considerably inside of their ends for a purpose to be explained hereinafter. For the purpose of enabling me to accomplish an adjustment between the bolster and the stake said openings *m* are elongated vertically, (preferably,) as shown in Fig. 1, which will permit a vertical adjustment thereof to adapt the stake to bolsters of different sizes, or this same result may be accomplished by making the said openings *m* round, but considerably larger than the bolts which pass through them.

When the stake is composed of two separate parts, as shown in Fig. 1, they will be riveted, screwed, or bolted together, as may be desired. In Fig. 3, however, I show the stakes made of a single piece and bent into the form shown in Fig. 1. The rings *b*, Fig. 1, may be formed separately from the stakes, as shown in said figure, and attached thereto in any desired manner, or they may be formed integral therewith, as illustrated in Fig. 3. When the rings, standards, and the laterally-extending lower ends or ears thereof are formed from a single piece, as shown in Fig. 3, it may be stamped or otherwise formed, and then the resulting blank will afterward be bent into the shape shown in Fig. 1, as will be readily understood.

Referring now to Fig. 4, which is a modified form of my stake, but which has its stem portion A′ made into a tubular form, the lower end of the tube is separated to form the diverging legs *g′*, which are provided with laterally-extending ears similar to those shown in Fig. 1 and which are applied and attached to the bolster in the same manner.

In Fig. 6 I show a separate view of a supplemental stake S, adapted to be placed in the rings *b* when hauling high loads.

The stake, Fig. 4, may be cut out slightly, as indicated by dotted lines *p*, to lighten it and at the same time leave a broad face *a′*, and the supplemental stake S may be somewhat cut away, as indicated at *x x*, for the purpose of bringing the supplemental stake as near as possible in a line with the face *a′* of the tubular stake A′ and both in a straight

line or plane against the side of the wagon-box or load.

The stake may be constructed without either or both of the laterally-extending ears *i* and *e* and yet leave a stake which is capable of the adjustments hereinbefore explained and therefore still have a good stake. I do not therefore desire to limit myself to the use of the said projecting ears.

By means of a stake constructed as above described, I am enabled to do away with the usual tenon and mortise in the ends of the bolster, which always greatly weaken it. I place the bolt-holes a considerable distance inside of the ends of the bolster to avoid the tendency to split said bolster or to weaken it and render it easily split under strain and use.

My stake can be readily and quickly attached to or removed from an ordinary bolster without the aid of mechanical skill, it requiring only the boring of the holes therein, which can be performed by any farm-hand. My stake can also be made to fit for narrow or broad gage boxes or loads by providing additional sets of bolt-openings in the bolster to permit the inward adjustment thereof for narrow boxes, the outer openings being for use for the ordinary or broad-gage boxes.

Owing to the construction and adjustability of the lower ends of my stakes they can be attached to wagons having bolsters which are of various sizes by either separating or bringing together the lower ends of the legs *g*, and they can at any time be readily tightened should they become loose on account of shrinkage, corroding of the bolster by contact with the iron stake, or for other reason.

It will be readily understood that any part of my stake can be made as light as desired and as light as the work it is to perform will permit by forming recesses therein or by open-work, both of which methods are well known.

While I have described and shown my invention as especially adapted for use as a bolster-stake, it is adapted for use as table-legs, stove-legs, &c.

In some instances it may be desirable to provide the stake with a brace 2 at its outer side, which will depend downward and extend through the bolster *n*, the lower end of the brace being screw-threaded, as illustrated, to receive a nut 3 above the bolster and a nut 4 below it. By means of this brace the stake is materially braced and by means of which the vertical adjustment of the stake can be accurately set through the medium of the said nuts, as will be readily understood.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A bolster-stake comprising a standard provided at its lower end with legs adapted to be clamped to said bolster, the lower ends of the legs provided with hooks or projections for holding a load-securing chain or cord.

2. A bolster-stake comprising a standard having at its lower end a load-holding rope-securing member or members, substantially as described.

3. A bolster-stake comprising a standard having at its lower end opposite and laterally-extending hooks for holding a load-securing chain or rope, substantially as described.

4. A blank for a bolster-stake comprising integral parallel stem portions united by parallel transversely-extending webs, the blank adapted to be bent to form a stem with integral rings, substantially as described.

5. A bolster-stake comprising a stem portion having at its lower end diverging arms provided at their lower ends with T-shaped portions, the outwardly-extending arms of the T-shaped portions having oppositely and laterally extending projections to form rope or chain holding members, substantially as described.

6. A bolster-stake comprising a standard having diverging independently-movable lower ends engaging opposite sides of the bolster, and an outwardly and downwardly extending brace with its downwardly-extending portion in a line between the separated diverging ends of the stake and passing through and adjustably held to the bolster, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM H. BARTEN.

Witnesses:
JOHN J. BOESL,
CLARENCE I. STARS.