(No Model.) W. H. BOLANDER & J. JACOBS.

WAGON STAKE.

No. 251,404. Patented Dec. 27, 1881.

Fig. 1.

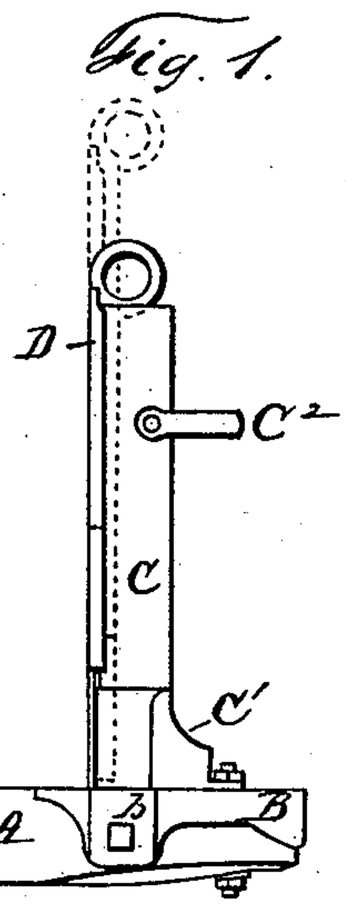


Fig. 2.

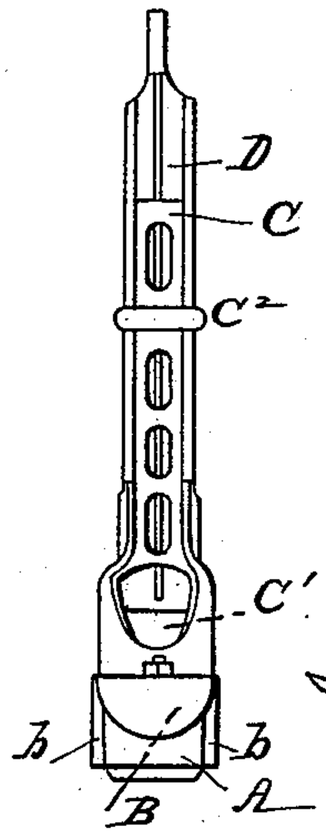


Fig. 3.

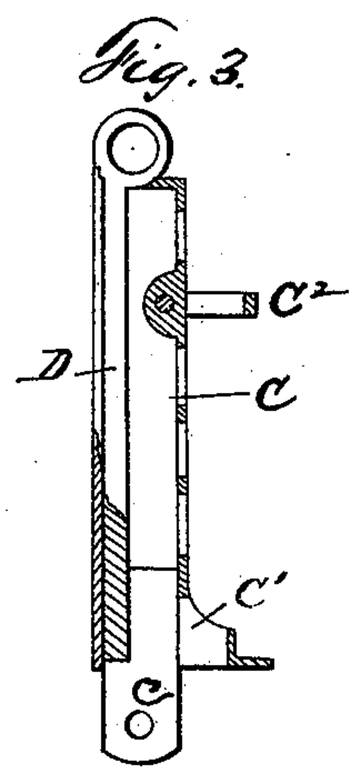
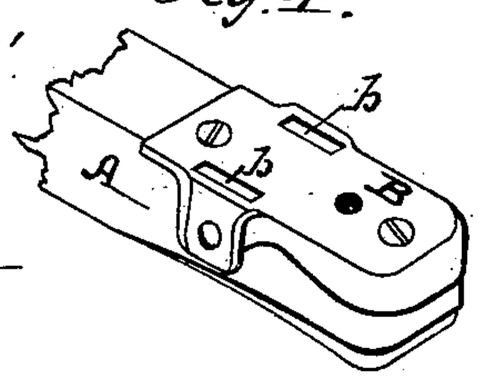


Fig. 4.



WITNESSES.

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WILLIAM H. BOLANDER AND JOHN JACOBS, OF SPRINGFIELD, OHIO.

WAGON-STAKE.

SPECIFICATION forming part of Letters Patent No. 251,404, dated December 27, 1881.

Application filed January 20, 1881. Renewed November 28, 1881. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. BOLANDER and JOHN JACOBS, both of Springfield, county of Clarke, State of Ohio, have invented a new and useful Improvement in Wagon-Stakes; and we declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

Our invention relates to an improvement in wagon-stakes, whereby the stake can be removed when necessary, or lengthened to provide for loads which rise higher than the top of a usual-sized wagon-stake.

In the drawings, Figure 1 is a side elevation of the stake. Fig. 2 is a front elevation of the same. Fig. 3 is a vertical central section of the same, and Fig. 4 is a perspective view of the cap or bolster plate.

The first object of our invention is to provide a wagon-stake of such construction that it can be elongated when the load is higher than the stake. This we accomplish as follows:

A is a wagon-bolster. B is a cap or bolster plate.

C is a wagon-stake, of malleable or other metal, having a shoe or socket, C′, at its base, and ring C^2, situated about midway between the center of the stake and its top.

D is a movable back, so constructed as to slide easily up and down the stake C. The stake C is secured by any suitable means to the top of the cap or bolster plate B. In the drawings it is shown bolted on through the bolster and its plate. For the purpose of steadying the stake in position when a load is bearing against it we have provided at the bottom two ears, *c*, which are slid into sockets *b*, and are held securely in place by a bolt, *b′*, passing through them and the bolster from side to side. The movable back D is so constructed that it can be drawn up to any required height for the purpose of holding the load in position when it exceeds the height of the stake, and it may be fastened, when at the proper height, by means of a bolt, pin, spring, or any other suitable means.

In order to facilitate the loading or unloading of heavy articles at the side of the wagon without lifting over the side stakes, the latter, as above described, are made readily removable, and the cap or bolster plate B is fastened to the bolster securely by any device, preferably wood-screws, whose heads are countersunk into the plate, leaving a perfectly smooth surface, over which the articles may be slid.

The ring C^2 is hung on a pivot, so that when not in use it can be turned down close to the stake, and so be out of the way. The object of this ring is that, should it be so desired, a wooden stake can be used by passing it through ring C^2 and stepping it in shoe or socket C′, for the purpose of lengthening the stake when the extension-piece or movable back is not in use; or it can be used in conjunction with the movable back for the purpose of adding additional strength.

Heretofore wagon-stakes have been made stationary, and when heavy timber or the like was being loaded the amount of lifting was very great, as the timber had to be lifted clear over the heads of the stakes and then dropped upon the wagon, thus making the wear and tear very great. Now, in our invention the bolster-plate is made separate from the stake, and being fastened securely to the bolster by means of screws countersunk into it, and the stake being fastened by bolts, the stake can be readily removed, and the bolster-plate then presents a perfectly flat and smooth surface, and the loading can be done without the necessity of lifting higher than the bottom of the wagon.

The stake may be made of any suitable metal, preferably malleable cast-iron, and may or may not be provided with the movable back, and we may or may not employ the ring and shoe or socket.

What we claim is—

1. A wagon-stake having a groove or recess to receive a vertically-adjustable back piece, a pivoted ring to receive an auxiliary wooden stake, and bottom ears to slide into sockets of the bolster-plate, substantially as described, and for the purpose set forth.

2. The combination, with a wagon-stake, substantially as described, of a bolster, A, having a bolster-plate, B, provided with sockets to receive the ears of the wagon-stake, said stake being held in place by a bolt passing through

the ears of the stake, the bolster, and sides of the bolster-plate, substantially as set forth, and for the purpose described.

3. A metallic wagon-stake provided with ears at its lower end, and in connection therewith a metallic cap-plate having sockets to receive the ears, and one or more bolts passing through the ears and cap-piece for holding the parts together, substantially as described.

In testimony whereof we sign this specification in the presence of two witnesses.

WILLIAM H. BOLANDER.
JOHN JACOBS.

Witnesses:
WM. R. HOMER,
M. T. BURNHAM.