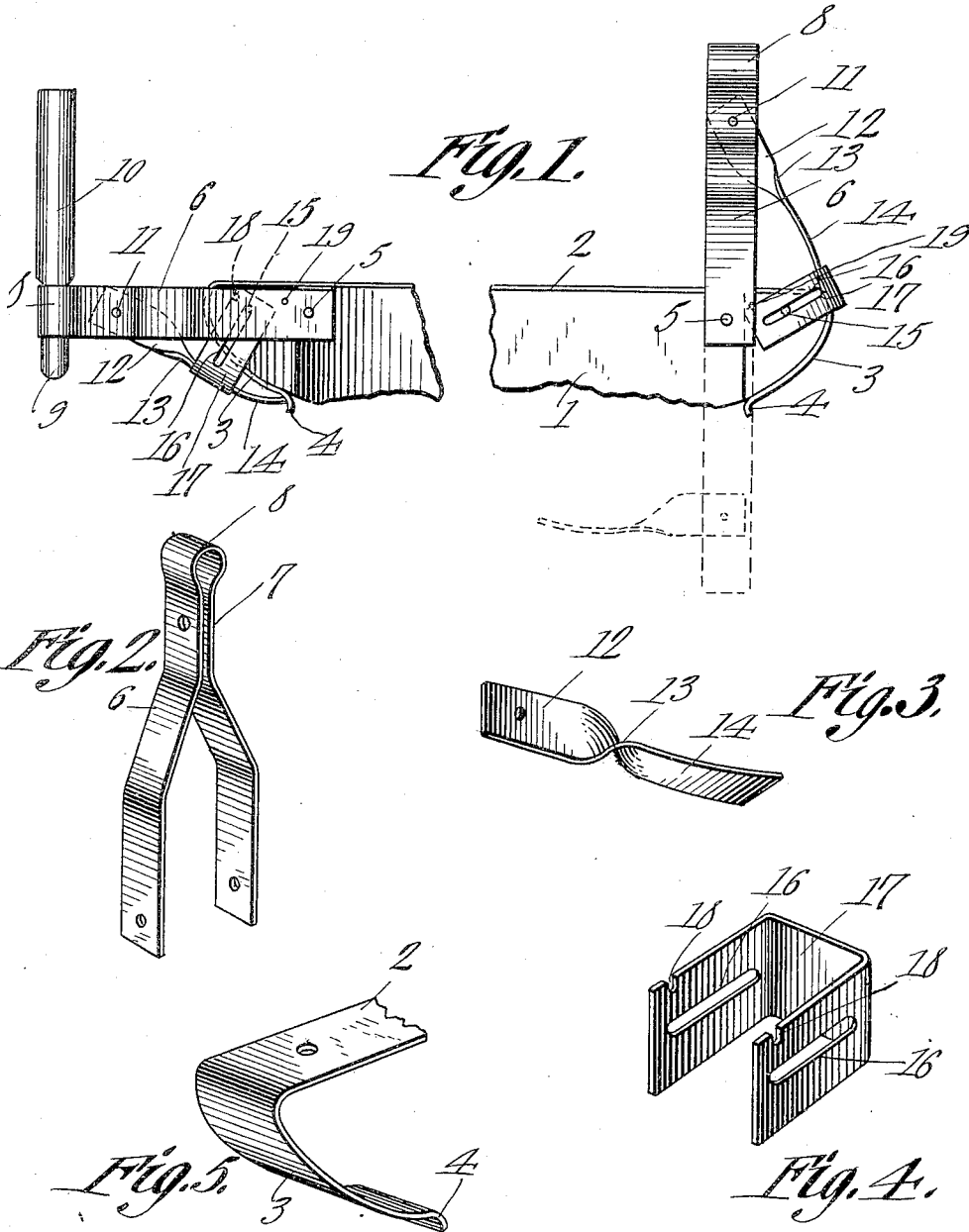


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 COMBINED SLED STAKE AND LOGGING BUNK.  
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1,082,425.

Patented Dec. 23, 1913.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM A. HUMPHREY, OF SPARTA, WISCONSIN.

COMBINED SLED-STAKE AND LOGGING-BUNK.

1,082,425.

Specification of Letters Patent.

Patented Dec. 23, 1913.

Application filed December 9, 1912. Serial No. 735,859.

*To all whom it may concern:*

Be it known that I, WILLIAM A. HUMPHREY, a citizen of the United States, residing at Sparta, in the county of Monroe and State of Wisconsin, have invented a new and useful Combined Sled-Stake and Logging-Bunk, of which the following is a specification.

This invention relates to a combined sled stake and logging bunk, one of its objects being to provide a structure of this character which can be quickly constructed for use either upon ordinary sleighs with or without boxes, or to be used as a bunk of extra length for hauling logs, railroad ties, etc., thus obviating the necessity of using the ordinary cumbersome wooden bunks.

Another object is to provide a combined stake and stake holder which can be extended perpendicularly from the bunk or runner and which can also be supported in a substantially horizontal position beyond the end of the bunk or runner.

A further object is to provide coöperating means upon the said combined stake and stake holder and upon the bunk or runner whereby the parts are properly held in the positions to which they are adjusted.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings: Figure 1 is a side elevation of the structure constituting the present invention, the two combined stakes and stake holders being shown, by full lines, in different positions and, by dotted lines, in a third position. Fig. 2 is a perspective view of one of the combined stakes and holders. Fig. 3 is a detail view of one of the braces. Fig. 4 is a perspective view of a stirrup. Fig. 5 is a perspective view of a portion of the protecting strap and showing the stop at one end thereof.

Referring to the figures by characters of reference 1 designates either a bunk or a runner, according to the use to which the

present improvements are to be put and, for convenience in describing the invention, this part will be designated the body. Said body is provided, along its upper face, with a wear or protecting strip 2 of any suitable metal and the ends of which are curved downwardly on to the curved ends of the body 1, as shown at 3, the terminals of these downwardly curved portions 3 being outwardly turned to form stops 4.

A pivot bolt 5 extends transversely through each end portion of the body 1 and also through the terminals of an elongated metal loop 6 which straddles the body and has its upper portion contracted, as at 7. A socket 8 is formed by enlarging the loop at that end thereof remote from the bolt 5 and this enlargement is of such size as to receive the rounded end 9 of a wooden stake 10, when it is desired to elongate the bunk or to use a wooden stake in connection with a runner. This arrangement of the stake relative to the loop 8 has been indicated at the right of Fig. 1. Extending transversely through the contracted portion of the elongated loop or stake 6 is a pivot bolt 11 to which is connected the upper end portion of a brace 12. This brace is given a one quarter turn, as shown at 13 so as to provide a broad slightly curved tongue 14. A guide bolt 15 extends transversely through the body 1 between each bolt 5 and the adjacent end of the body and the ends of this bolt extend into slots 16 formed longitudinally within the sides of a substantially U-shaped stirrup 17 which straddles the end portion of the body 1. Notches 18 are formed in the upper edges of the sides of stirrup 17 and are adapted, when the stirrup is in one position, to receive the ends of a holding pin 19 which extends transversely through the body. When the notches are thus positioned, the bolt 15 is located in the slots 16 at points adjacent the centers thereof, as shown at the right of Fig. 1.

When it is desired to use the metallic stakes 6, they are swung upwardly so that each of them will be positioned, as shown at the right of Fig. 1 and with its brace bearing downwardly upon that portion of the strip 2 on the end portion of the body 1. Stirrup 17 is then swung upwardly to an inclined position and pushed inwardly and downwardly until the notches 18 come under the pin 19, this pin thus holding the stirrup against downward movement when

subjected to the pressure exerted there-  
against by the brace 12.

Should it be desired to use a wooden  
stake, the metallic stake is swung down-  
wardly to the position illustrated at the left  
of Fig. 1. In order to effect this movement  
the stirrup 17 is first disconnected from pin  
19 so as to swing downwardly under the end  
portion of the body 1. The brace 12 is thus  
free to slide through the stirrup and against  
the stop 4 and, as the brace bears down-  
wardly on the middle portion of the stirrup,  
it will be seen that the metallic stake 6 will  
thus be supported in a substantially hori-  
zontal position. With the parts thus dis-  
posed, a wooden stake 10 can be placed in  
position as shown.

When it is not desired to use either stake,  
the brace 12 can be slipped under the stir-  
rup 17 so as thus to allow the metallic stake  
to swing downwardly past the stirrup and  
to the position indicated by dotted lines in  
Fig. 1.

It is to be understood that under some  
conditions it is desirable to use a wooden  
stake at both ends of the body 1 while, un-  
der other conditions, it is desirable to use  
only the metallic stake at both ends. At  
other times, as when the body is arranged  
on a hillside and is thus likely to tilt over  
under the weight of the load thereon, the  
stake 6 at the uphill end of the body can be  
lowered to the position indicated at the left  
of Fig. 1 and a wooden stake placed therein  
while the metallic stake at the lower end of  
the body can be arranged as shown at the  
right of Fig. 1. Thus the load can be so  
placed as to bring the center of gravity to  
the upper side of the center of the support-  
ing structure and the danger of tilting or  
upsetting is therefore reduced to the mini-  
mum.

What is claimed is:—

1. The combination with a body, of a  
combined stake and stake holding element  
pivotally connected thereto, a brace pivoted  
upon said element, and means slidably and  
pivotally mounted upon the body and co-

operating with the brace for holding said  
element in either horizontal or vertical load  
retaining position.

2. The combination with a body, of a  
combined stake and stake holding element  
pivotally connected thereto, a brace pivoted  
upon said element, a stop upon the body,  
and a brace engaging device slidably and  
pivotally connected to the body for holding  
said element in either horizontal or vertical  
load-retaining position.

3. The combination with a body, of a  
combined stake and stake holding element  
pivotally connected thereto, a brace extend-  
ing from said element, a stop upon the body,  
a brace engaging device pivotally and slid-  
ably connected to the body, and a holding  
device upon the body for engagement by  
said engaging device to hold said element in  
either horizontal or vertical load-retaining  
position.

4. The combination with a body, of a  
combined stake and stake holding element  
pivotally connected thereto, a stop upon the  
body, a stirrup slidably and pivotally  
mounted upon one end portion of the body,  
and a brace pivotally connected to said ele-  
ment and slidable through the stirrup and  
against the stop, said stop, brace and stirrup  
constituting means for holding said element  
in a substantially horizontal position.

5. The combination with a body, of a  
combined stake and stake holding element  
straddling and pivotally connected to the  
body, a stirrup pivotally and slidably  
mounted on the body, a stop upon the body  
for engaging and holding the stirrup in a  
predetermined position, and a brace pivot-  
ally connected to said element and movable  
against the stirrup for holding said element  
in an upstanding position.

In testimony that I claim the foregoing  
as my own, I have hereto affixed my signa-  
ture in the presence of two witnesses.

WILLIAM A. HUMPHREY.

Witnesses:

WM. H. BLYTON,

R. PAKRAND.