

(No Model.)

W. A. HANNA.

WAGON STAKE.

No. 246,308.

Patented Aug. 30, 1881.

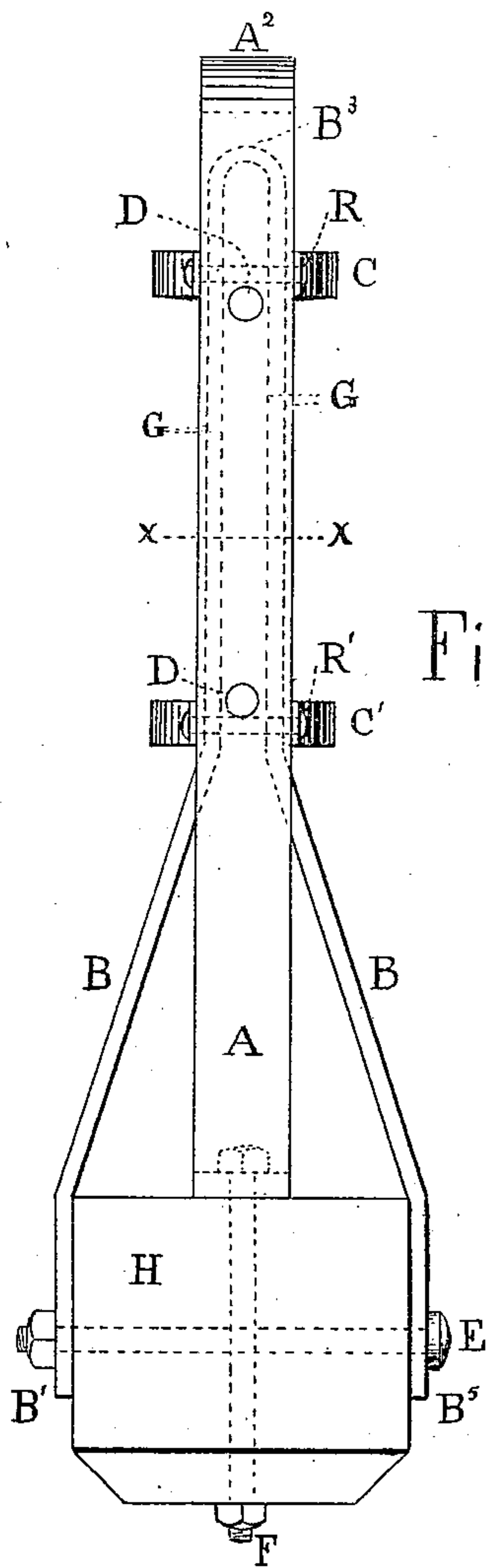
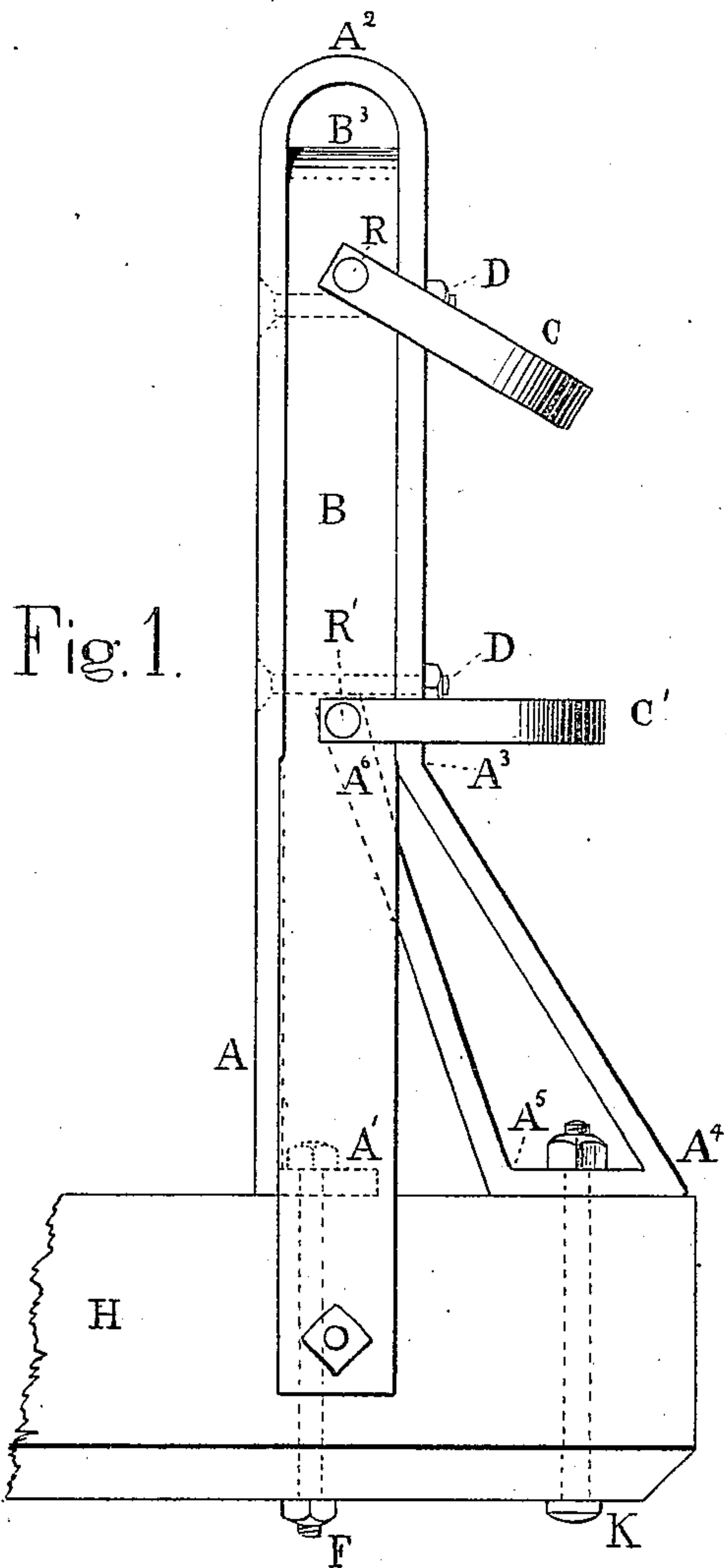
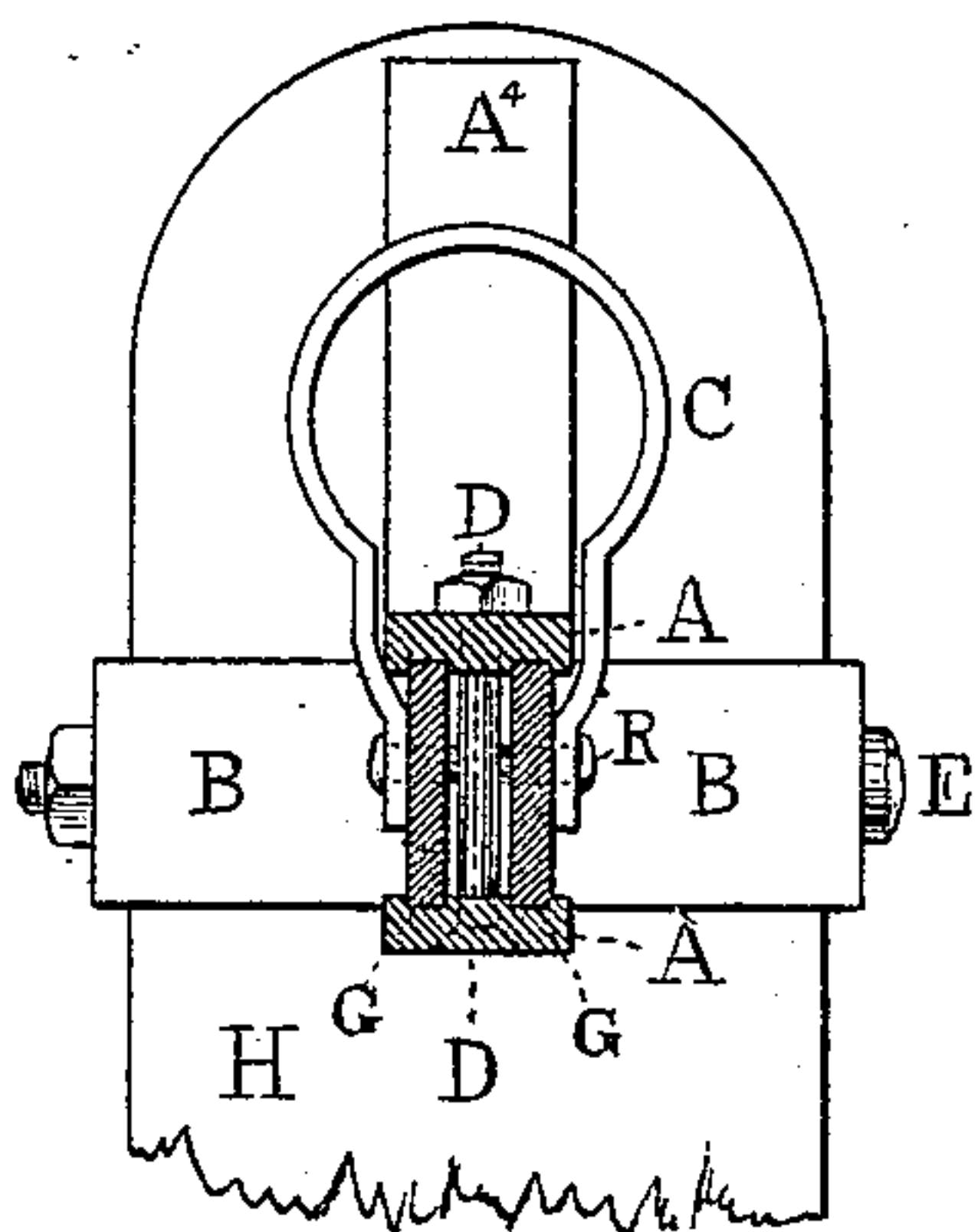


Fig. 3.



Witnesses:
H. H. Wells.
Richd. A. Goldsborough.

Inventor,
William A. Hanna.
per Artemas B. Upham,
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM A. HANNA, OF HENRY, ILLINOIS.

WAGON-STAKE.

SPECIFICATION forming part of Letters Patent No. 246,308, dated August 30, 1881.

Application filed July 11, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. HANNA, of Henry, in the county of Marshall, in the State of Illinois, have invented an Improved Wagon-Stake; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a side view, Fig. 2 edge view, Fig. 3 sectional top view, through *xx*.

H is one end of the wooden bolster of a freight or farm wagon.

My wagon-stake consists, primarily, of one long bent strip of flat bar-iron, A, and one bent strip of strap-iron, B.

So far as I know there has never been constructed before this a wagon-stake entirely of wrought-iron.

The strip of bar-iron A is straight from A to A², at which latter point it is bent to a curve of about three-fourths of an inch radius, and is again made straight and parallel to said other part A A², from said curved part A² to the point A³. From A³ to A⁴ it is bent off at an angle of about thirty-five degrees, to serve as a brace. To fasten this strip of bar-iron A to the bolster I bend the end A' in at right angles to the vertical part A A², and put the bolt F through it and said bolster. The other end, A⁵, I also bend in parallel with the bolster and put through it and said bolster the bolt K. To further brace this stake I prolong the end A⁵ and bend it up to A⁶. At this latter point, A⁶, I flatten it edgewise till it is thick enough to receive the rivet R' and narrow enough to come between the two parts of the bent strip of strap-iron B at that point.

In my plans which I had filed as a caveat in last March the end A⁶ was welded to the inside of the part between A and A² of the strip of bar-iron; but my new way I regard as both cheaper and stronger. In said caveat the end A A' was also attached in a different way to the bolster. I then hammered said end out into a bolt; but that was a much harder way than my present one.

The strip of strap-iron B is bent as shown in Fig. 2 at B³, from which point to B² and B⁴ it is straight, and fits in grooves G, about three thirty-seconds of an inch deep, made in the inside of the strip of bar-iron A, (shown in cross-section in Fig. 3, and also in Fig. 2 by the dotted lines from B² up to B³ and down to B⁴.) This strip B is secured to the bar-iron A by being pressed into said grooves G and held by the bolts D D. It is fastened to the bolster H by the bolt E through its ends B' and B⁵. The slanting parts B' B² and B⁴ B⁵ serve as side braces to the stake.

The stake-rings C C are also made of narrow strap-iron, bent as shown in Fig. 3, and secured to the stake by the rivets R R'. This riveting is not done so tightly as to prevent the rings C from being turned down against the stake, and yet is snug enough to prevent any rattling. These rivets R R' also help to hold the strap-iron B in place, even should the bolts D D get loose.

The space between B³ and A² serves as an eye to attach a rope or chain to.

This wagon-stake is used the same as is the ordinary wooden one.

What I claim as my invention, and for which I desire Letters Patent, is as follows, to wit:

1. As a wagon-stake, the strip of bar-iron, straight from A to A² and from A² to A³, curved at A², and bent off at an angle from A³ to A⁴, with grooves G G, and having its ends fastened to the bolster H, in combination with the strip of strap-iron B, bent as shown, and having its ends bolted to the bolster H.

2. The strip of bar-iron A, with grooves G G, bent ends A' and A⁶, with bolts F and K, the strip of strap-iron B, with bolts E and D D, and stake-rings C C', with rivets R R', in combination with the bolster H, substantially as and for the purpose specified.

In testimony that I claim the foregoing invention I have hereunto set my hand this 27th day of June, 1881.

WILLIAM A. HANNA.

Witnesses:

E. D. WAY,

W. W. REYNOLDS.