

No. 630,301.

Patented Aug. 1, 1899.

J. S. PARK.
HARNESS.

(Application filed Apr. 12, 1898.)

(No Model.)

Fig. 1.

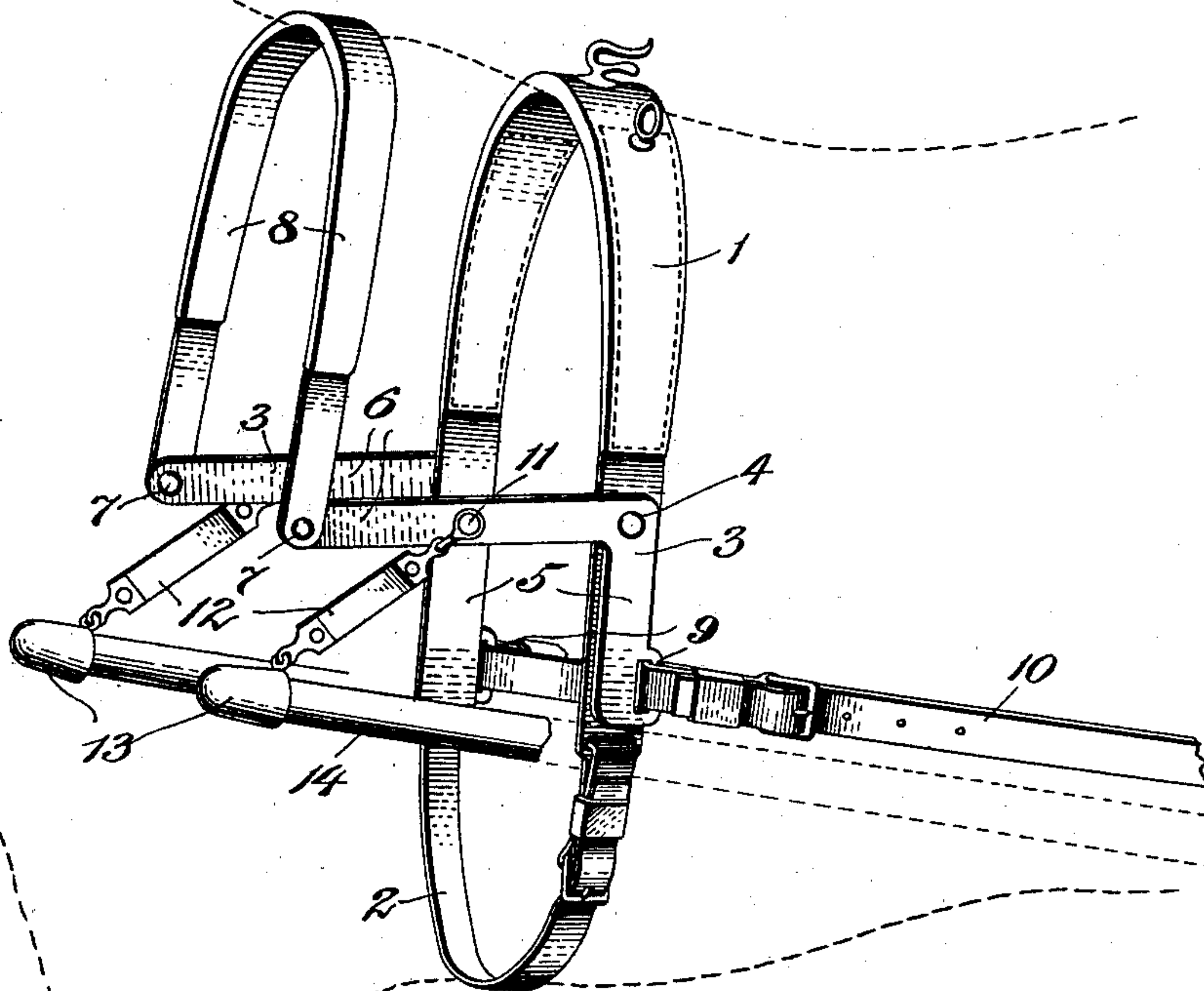
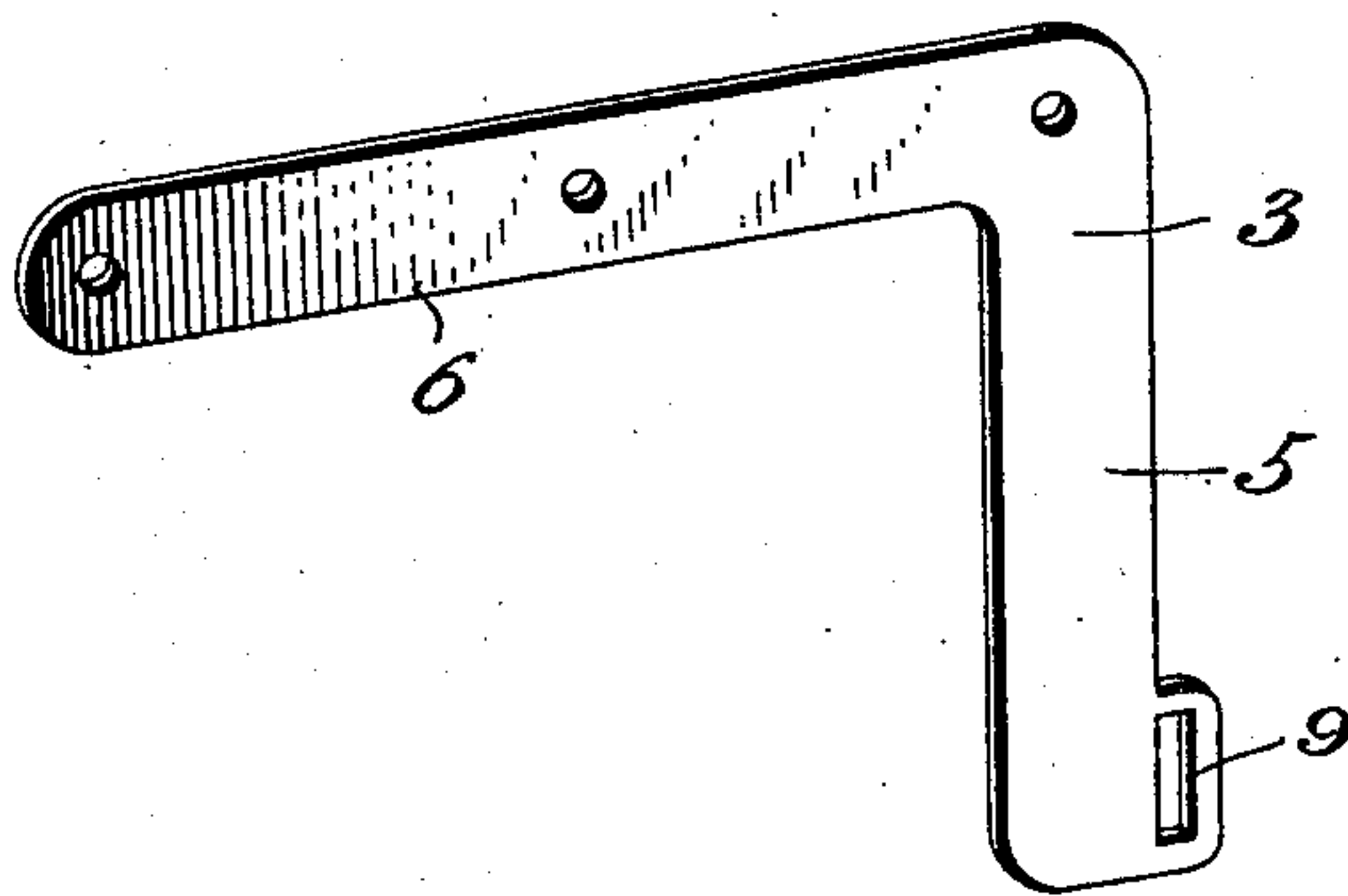


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HARNESS.

SPECIFICATION forming part of Letters Patent No. 630,301, dated August 1, 1899.

Application filed April 12, 1899. Serial No. 712,771. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH S. PARK, a citizen of the United States, residing at Montandon, in the county of Northumberland and State of Pennsylvania, have invented certain new and useful Improvements in Harness; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in harness, and, as will hereinafter appear, the improved harness may be used with either single or double teams.

The main object of my invention is to produce a cheap, light, and strong harness wherein I obviate the necessity of employing the usual uncomfortable breast-strap or collar and transfer the strain to the back of the animal, the place where nature intended, and thus relieve the breast, and consequently the respiratory organs.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be more particularly pointed out in the appended claims.

Referring to the drawings, Figure 1 is a perspective view of a harness embodying my invention, and Fig. 2 is a detail of the draft-lever hereinafter referred to.

Like numerals of reference indicate like parts in both figures of the drawings.

In carrying my invention into practice I employ a saddle 1, which may be of any ordinary construction and to the ends of which are connected the usual terminals of a belly-band 2, for the accommodation of which the lower ends of the saddle may be provided with ordinary loops or buckles.

In my invention I omit the usual thill-loops, and at the points where they are usually located I locate bell-crank or right-angularly-shaped draft-levers 3, pivoting the same at their angles, as at 4, to the terminals of the saddle. Each of these bell-crank or triangularly-shaped draft-levers comprises a rear vertical short branch or arm 5 and a forwardly-disposed horizontal longer arm or branch 6, the latter being designed to terminate at opposite points at about the shoulders of the draft-animal.

Pivotally connected, as at 7, to the front or free extremities of the horizontal branches or arms 6 are the opposite terminals of the neck-band 8, which, like the saddle, may be provided with means for lengthening and shortening the same in order to fit the harness to the backs of horses of different size.

The lower extremities of the rear short vertical branches or arms 5 are connected pivotally or loosely, as at 9, to the front ends of a pair of short traces 10, the rear ends of which are of course connected to the singletree in any well-known manner.

At an intermediate point between the angles of the draft-levers and the front ends of their horizontal arms or branches the latter are connected loosely, as at 11, to the rear ends of a pair of thill-straps 12, which may be provided with means for lengthening and shortening, and terminate at their front ends in thill-sockets 13, adapted to receive the front ends of the usual thills 14 and support the same, said thills being, if desired, provided with the usual girth. (Not shown.)

It will be observed that the strain upon the traces tends to draw upon the lower ends of the draft-levers, and thus to depress or draw down upon the front ends of the same, thereby transferring the strain to the shoulders of the draft-animal and not to the breast, which latter tends to compress the respiratory organs; furthermore, that in holding back the strain is transferred from the front ends of the thills to the thill-straps, from thence to the front horizontal arms or branches of the draft-levers, and from thence to the neckband 8 in much the same manner as before described.

It will of course be understood that my invention may be supplied with buckles, loops, and other accessories, all of which I contemplate doing in the actual practice of my invention, and I would therefore have it understood that I do not limit my invention as to these details of construction, but claim as the essential features of my invention the angular draft-levers or their equivalent devices, whereby I am enabled to obviate the necessity of using collars or breast-straps.

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

1. In a harness, the combination with a saddle; a neckband located in advance of the saddle; and opposite angular draft-levers fulcrumed at the opposite sides of the saddle;
5 loose connections between the terminals of the neckband and the front ends of the draft-levers; and traces connected to the opposite ends of said levers; of thill-supports carried by the said draft-levers and connected to the
10 latter in advance of their fulcrum-points.

2. In a harness, the combination with a saddle; a neckband located in advance of the saddle; and opposite angular draft-levers fulcrumed at the opposite sides of the saddle;

loose connections between the terminals of 15 the neckband and the front ends of the said draft-levers; and traces connected to the opposite ends of said levers; of thill-straps connected to the draft-levers in advance of their fulcrums and terminating at their front ends 20 in thill-receiving sockets.

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

JEREMIAH S. PARK.

Witnesses:

F. L. MAGEE,

W. M. MILLER.