

(No Model.)

M. W. AMER.

HARNESS.

No. 326,932.

Patented Sept. 29, 1885.

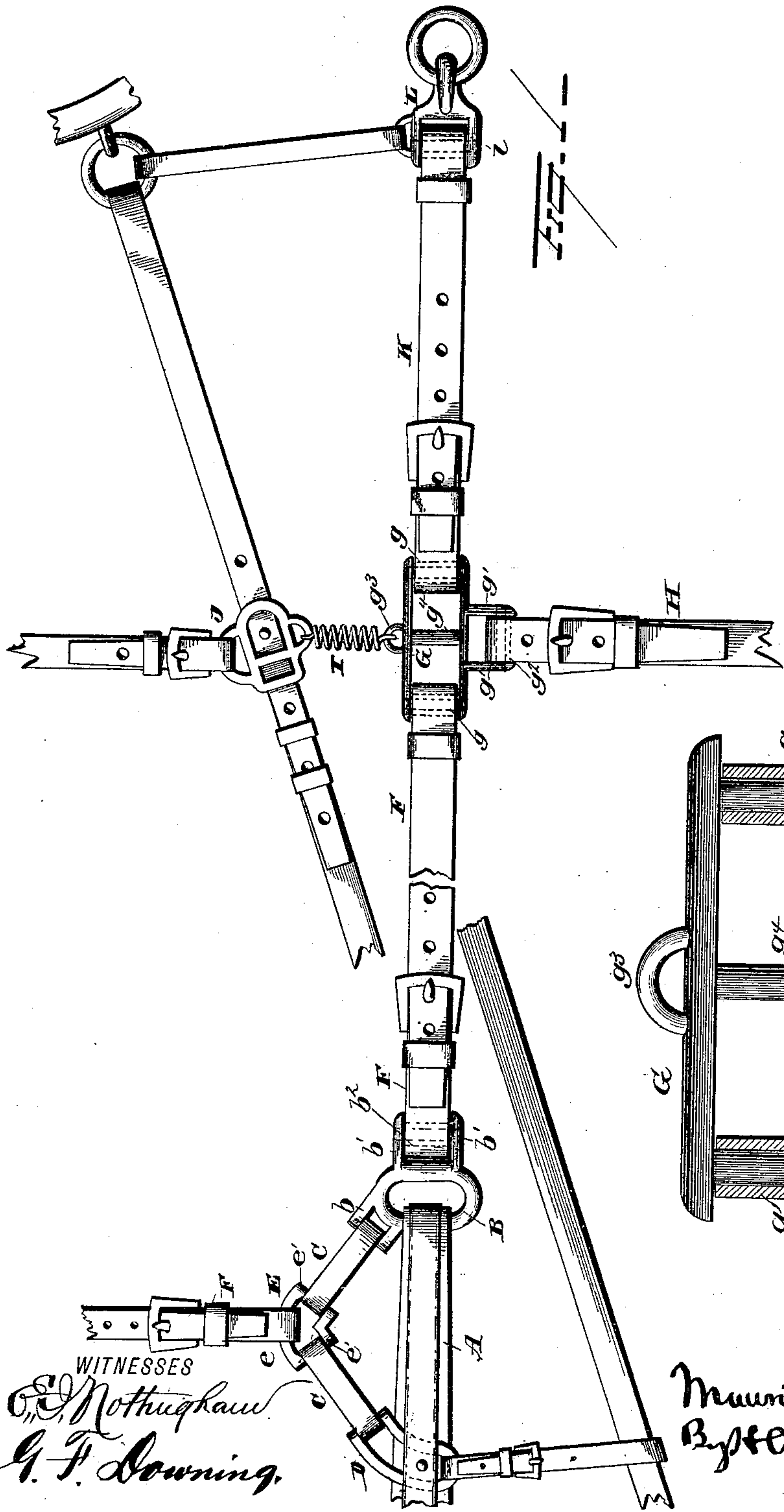
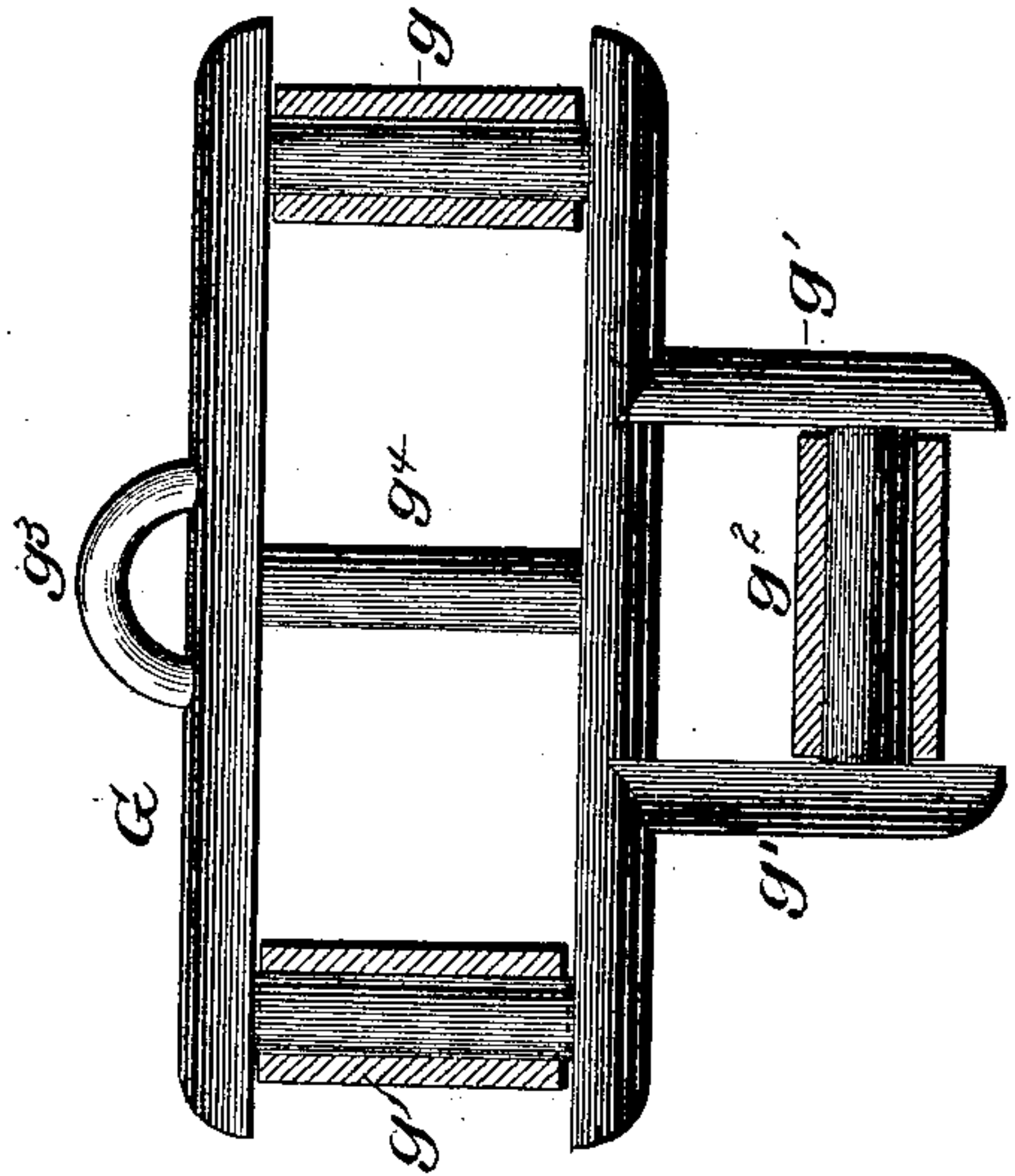


Fig. 2



WITNESSES
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HARNESS.

SPECIFICATION forming part of Letters Patent No. 326,932, dated September 29, 1885.

Application filed January 3, 1885. (No model.)

To all whom it may concern:

Be it known that I, MAURICE W. AMER, of Glens Falls, in the county of Warren and State of New York, 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.

My invention relates to an improvement in harness, the object of the same being to provide connecting-loops of improved construction for the purpose of equalizing the strain upon the straps, and for the purpose of reducing the friction between the loops and straps.

A further object is to provide devices whereby the above results shall be attained, which shall be simple and economical in construction and durable and efficient in use; and with these ends in view my invention consists in the certain features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of a portion of a harness showing my improvement applied thereto, and Fig. 2 is a longitudinal sectional view of one form of device.

For the purpose of enabling my invention to be thoroughly understood, I will describe it in connection with and as applied to a portion of a harness.

A represents the breeching, to the forward end of which is attached the metallic loop B, one corner or side of which is provided with the slot *b*, formed at an angle, and to which is secured one end of the strap C. The rear portion of the breeching shown is also provided with a metallic loop, D, the upper portion of which is closed at an angle, and to which is secured one end of the strap C. The opposite ends of the straps C and C are secured to the metallic brace-support E, which is formed with the upper portion thereof slightly curved, as shown at *e*, and with the sides *e'* thereof formed inwardly.

To the upper portion of the brace E is secured the strap F in any desired manner.

The object of forming the several loops and the brace with the sides set at an angle is to

insure a complete and equable strain on all portions of the straps secured thereto, and thus avoid a partial strain on one side thereof, as would be the case were they secured to the ordinary rings.

The forward part of the connecting-loop B is provided with the arms *b'*, between which is secured the roller *b''*, and to which is fastened one end of the strap F.

The connecting-brace G is provided at opposite ends with the rollers *g*, which are secured therein in any desired manner. The bottom of the brace G is provided with the depending arms *g'*, between which is secured the roller *g''*, and to which is secured the girth H. The upper portion of the brace G is provided with the ring or loop *g'''*, formed integral therewith or secured thereto, and to which is secured the spiral spring I, the upper end of which is secured to the saddle-band J. The brace is also provided with the strengthening-bar *g''''*. The object in providing the spring-connection is to avoid the strain on the saddle-band J and the girth H, which is likely to occur when the team is holding back, as the parts mentioned are at such time in full play.

The free end of the strap F is secured to one of the rollers *g*, and to the opposite roller is secured the strap K, the forward end of which is secured on a roller attached to the rear end of the snap-hook L, between the arms *l*, formed thereon.

It will be observed that by supplying the different parts of the breeching and backing straps with rollers upon which to work, all frictional contact is obviated, and, in consequence, greater durability is assured.

From the foregoing it will be observed that in the several attachments described for connecting the parts of the harness all of the main loops are provided with supplemental loops or bars arranged at right angles to the strain, and provided with anti-friction rollers, whereby the strain is equalized.

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

1. In a harness, the combination of the strap K, brace G, the girth secured to said brace, the saddle-band, a spring connecting the sad-

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dle-band to the brace, and the strap F, connected to the rear end of the brace, substantially as set forth.

2. In a harness, the combination, with the
5 breeching and the strap F, of the loop B, connecting the strap F and breeching, the loop D, the strap C, connecting the loops D and B, and the brace E, connecting said straps C, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MAURICE W. AMER.

Witnesses:

M. J. SEYMOUR,
CHARLES W. MORGAN.