

(No Model.)

F. L. HEMRY.

HARNESS.

No. 343,583.

Patented June 15, 1886.

Fig. 1.

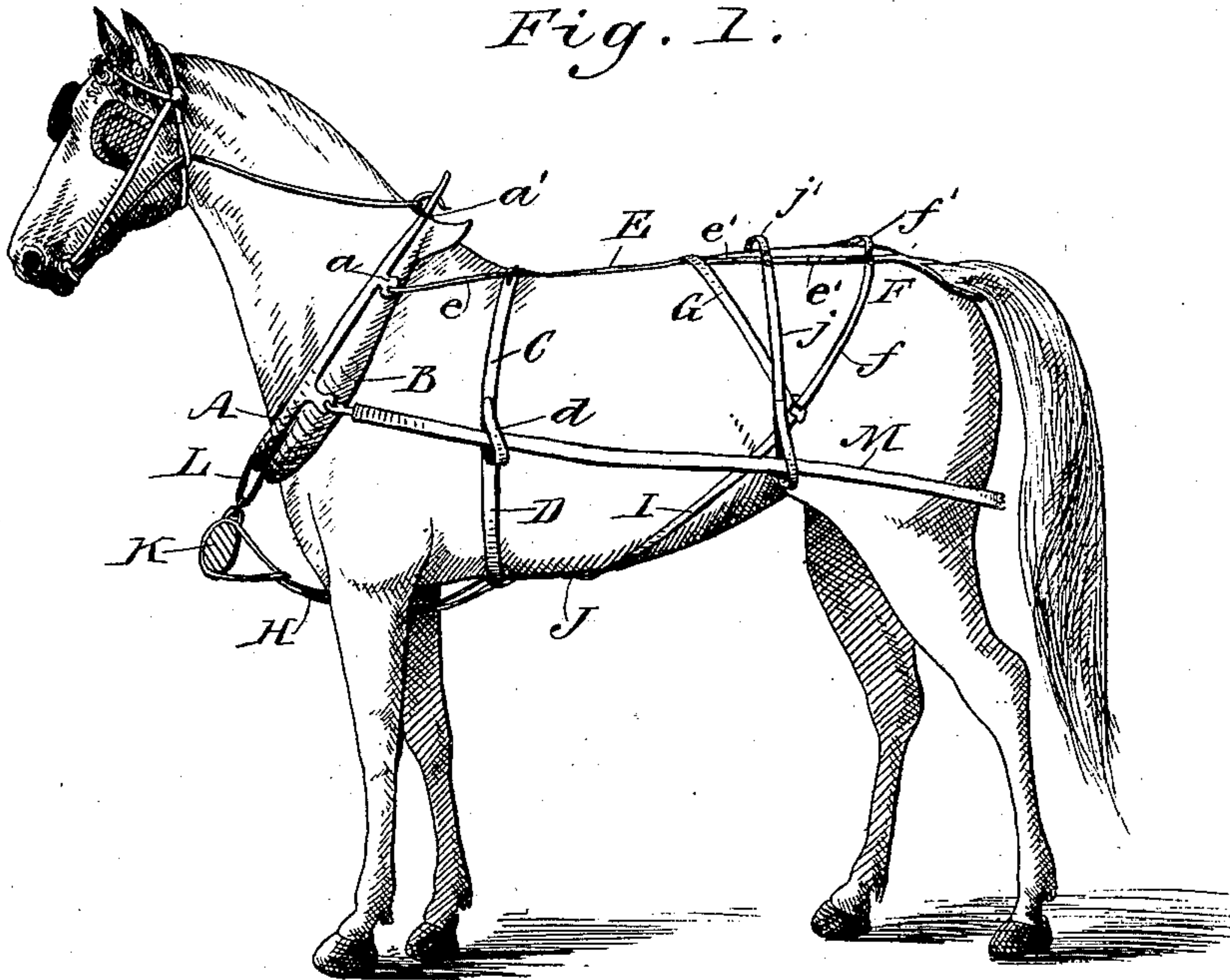
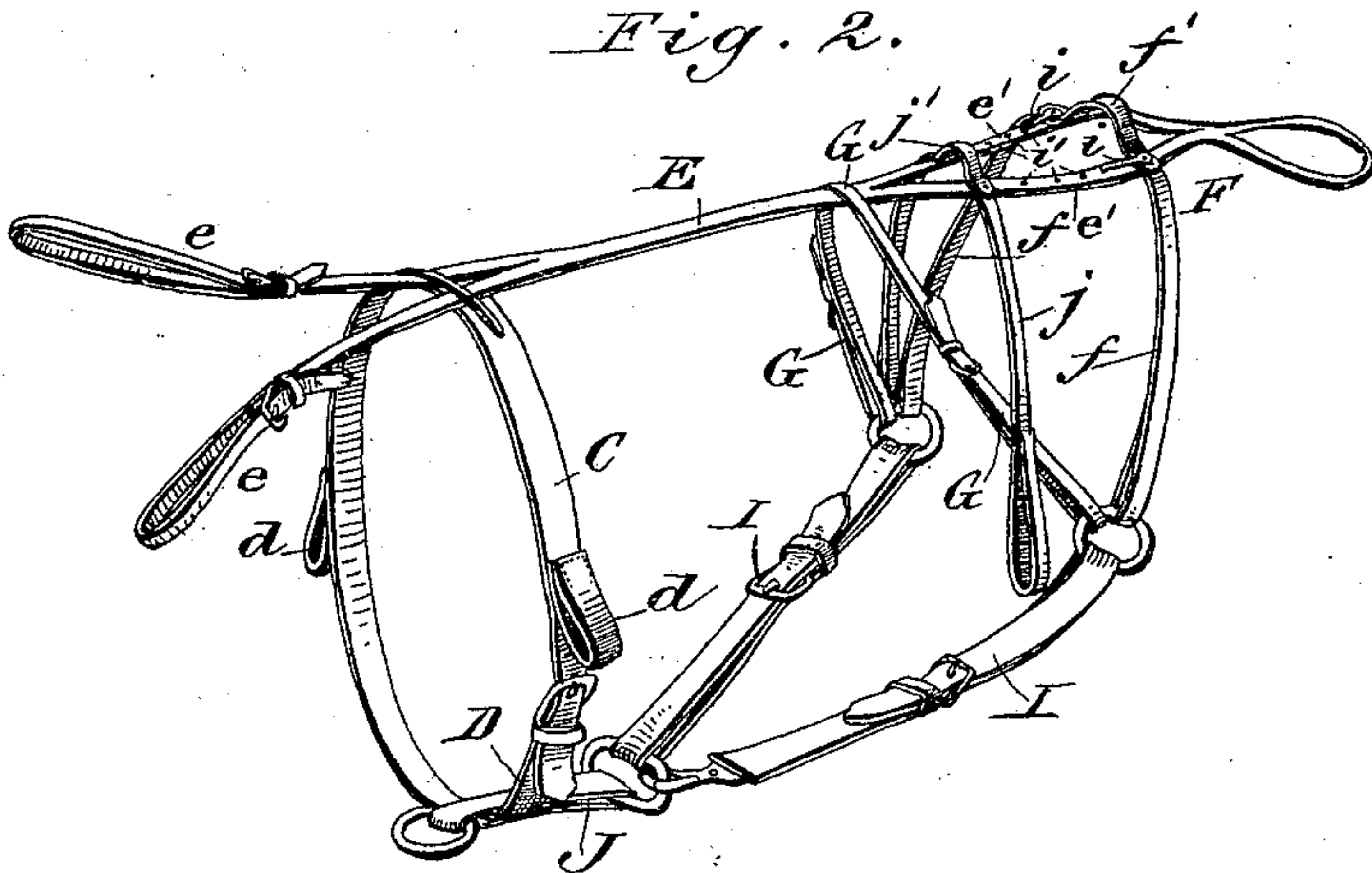


Fig. 2.



WITNESSES:

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HARNESSES.

SPECIFICATION forming part of Letters Patent No. 343,583, dated June 15, 1886.

Application filed September 25, 1885. Serial No. 178,153. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN L. HEMRY, of Comly, in the county of Perry and State of Ohio, have invented a new and Improved Harness, of which the following is a full, clear, and exact description.

My invention relates to a harness wherein the breeching passes over the rump of the horse; and the invention consists, principally, in dividing the back-strap, or making it in two parts, where it joins or intersects the breeching, so as to remove all strain and pressure from the spine of the horse while in the act of backing or holding back a load.

The invention also consists in making the forward end of the back-strap in two parts, which are attached to the harness to transfer all or a portion of the weight of the collar, hames, tongue, neck-yoke, &c., from the neck to the back of the horse to prevent galling of the neck, that sometimes occurs.

The invention, finally, consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 shows my new harness applied to a horse, and showing the neck-yoke attached and in section; and Fig. 2 is a perspective view of the harness without the hames, collar, traces, holdback and breast straps.

The hames A, collar B, back-pad C, and belly-band D may be of the usual or of any approved construction, except that the hames A are each provided with a ring or eye, *a*, below the upper hame-strap, *a'*, to receive the straps *e e* of the back-strap E.

F is the breeching. This passes over the rump of the horse and is attached to the back-strap E, and is composed of the two side straps, *ff*, and the central iron, *f'*, that joins the adjacent ends of the two straps *f*. The iron *f'* is curved upward in the center, and the back-strap E is slotted or made in two parts, *e' e'*, under the iron *f'*, as shown, so that no part of the harness touches the spine of the horse at the point where the breeching crosses the rump.

The lower ends of the breeching are held in place by the strap G, that passes over the back of the horse, and is attached to the back-

strap E, and the lower ends of the breeching are attached to the holdback-strap H, or belly-band D, by the side straps, *II*, and short strap J, and the holdback-strap H is attached to the neck-yoke K or collar B, and the latter is attached to the hames by the strap L in the ordinary manner, and the traces M are attached to the hames in the usual manner, and are held by loops *d* and hip-straps *j*, which are made in two parts joined together, and to the parts *e' e'* of the back-strap E, by the arched iron *j'*, so that all pressure is removed from the bony prominences at the summit of the horse's rump, situated immediately on either side of the spinal column, and upon which there is constant pressure by the ordinary harness.

By dividing the back-strap E at its forward end and using the two straps *e*, attached to the hames, the weight of the hames and collar, and all parts attached thereto, may be shifted from the top of the horse's neck to his back, and by dividing the back-strap E at the hips and placing the breeching over the rump of the horse there is no danger of injurious pressure coming upon the horse's spine, and the advantage that this situation of the breeching and weight of the hames, collar, &c., gives to the horse in backing or holding back a load is considerable, since the load comes upon him in the line of his greatest strength—viz., immediately over and in line with his limbs—and it gives him the advantage of his weight, in addition to his strength, in holding back, and does not restrain any of his movements or the expansion of his muscles in drawing. The dividing of the back-strap also removes pressure of the back-strap upon the withers.

In some cases I shall make the breeching F and arch-iron *f'* adjustable along the back-strap E, to exactly suit the harness to the horse, and this adjustment may be accomplished by means of the spring hooks or fastenings *ii*, attached to the arch-iron, and adapted to enter holes *i' i'* in the parts *e' e'* of the back-strap, as shown in Fig. 2, or by any other suitable means.

In some cases—as in heavy harness—the back-strap may be twice divided, and one part on either side of the harness to be adjustable on the hames.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. In a harness, the breeching arranged to pass over the rump of the horse, in combination with the back-strap divided at the hips of the horse, and having its branch straps connected with the breeching, substantially as and for the purpose set forth.
2. The back-strap E, having the breeching F connected thereto, and formed with the straps *e*, adapted to be attached to the hames, substantially as described.
3. The hames A, provided with the rings or eyes *a*, in combination with the back-strap E, formed or provided with the short straps *e*, substantially as and for the purposes set forth.
4. In a harness, the breeching provided with straps *f f*, joined by a curved plate, in combination with the two-part back-strap, substantially as and for the purpose set forth.
5. In a harness, the back-strap formed with

straps *e e* and *e' e'*, in combination with the hames having rings or eyes, the hip-strap made in two parts joined together and to the straps *e' e'* by the arch-piece *j'*, and the breeching having straps joined together and to the straps *e'* by the curved or arched plate *f'*, substantially as and for the purpose described.

6. The back-strap E, divided to form the straps *e' e'*, in combination with the hip-strap *j*, made in two parts and attached to the straps *e' e'*, substantially as and for the purposes set forth.

7. The back-strap divided to form the straps *e' e'*, in combination with the hip-strap *j*, made in two parts joined together, and to the straps *e' e'* by the arch-piece *j'*, substantially as described.

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Witnesses:

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