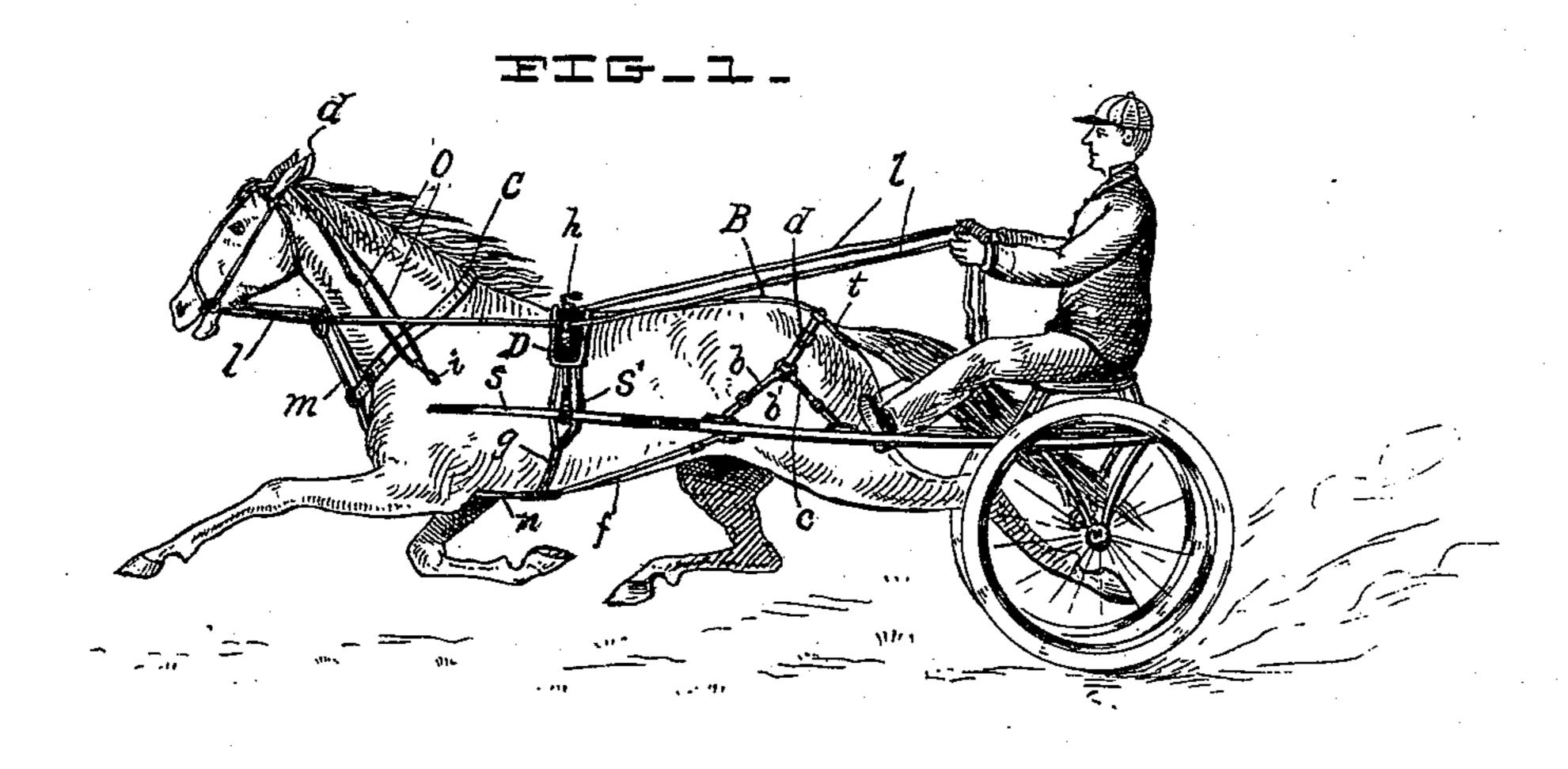
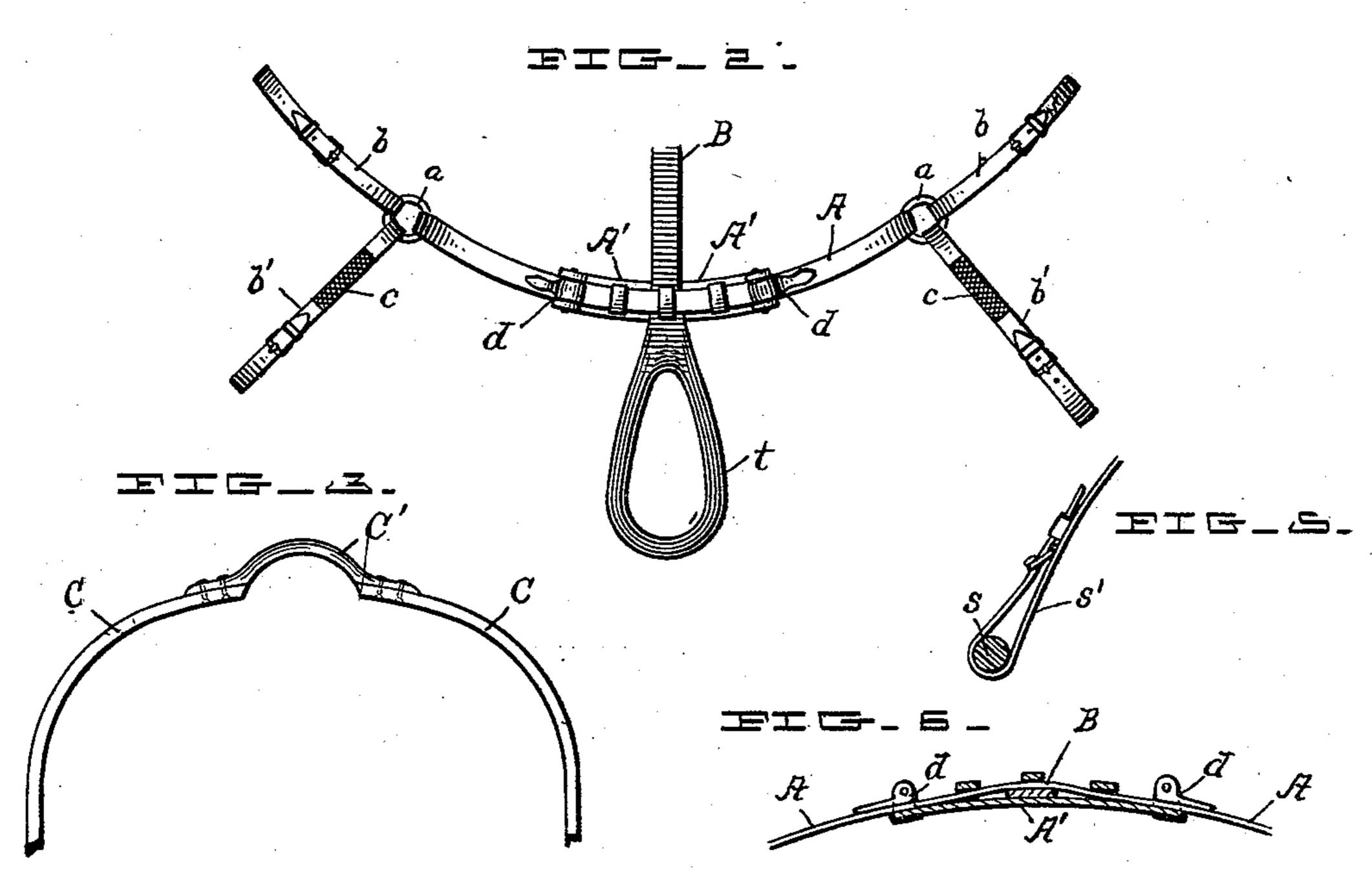
J. LEWIS. HARNESS.

No. 541,622.

Patented June 25, 1895.





Witnesses

F.M. Meleaf.

James Lewis.

By Attorney M. Metcalf.

THE NORRIS PETER*CO. PHOTO-LITHO., WASHINGTON, D. C

United States Patent Office.

JAMES LEWIS, OF MARENGO, ASSIGNOR OF ONE-HALF TO SUSEN E. ROUSSEAU, OF ALBION, MICHIGAN.

HARNESS.

SPECIFICATION forming part of Letters Patent No. 541,622, dated June 25, 1895.

Application filed May 26, 1894. Serial No. 512,556. (No model.)

To all whom it may concern:

Be it known that I, JAMES LEWIS, a citizen of the United States, residing at Marengo, in the county of Calhoun and State of Michigan, 5 have invented certain new and useful Improvements in Harness-Gear; and I do 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 10 to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improve-15 ments in harness and particularly in that class of harness used on the race-course, or where great speed is desired, and the object of the invention is to provide a harness of this character which shall be readily adjust-20 able, light and which will not interfere with or impede the free movement of the aminal, all as will be hereinafter fully set forth.

The novel features of the invention will be

carefully defined in the claims.

In the drawings illustrating my invention, Figure 1 is a perspective view of the harness in use, and Fig. 2 is a plan view of the breeching or hip strap and its attachments detached and drawn to a larger scale. Fig. 3 is a simi-30 lar view of the breast-collar attachment for heavier work, and Figs. 4, 5, and 6 are detached views showing details of construction to be referred to hereinafter.

In the views A represents the main hip-35 strap provided with the central reinforce or stay A', end rings a and diagonal shaft attachments b, b', and the longitudinal strap B, reaching from the horse's tail t to the saddle D. The straps b' are provided with inter-40 mediate elastic portions c, between the rings a and the shaft engagement thereof and are connected to the said shaft s near the feet of the driver, while the straps b are attached to said shaft at a short distance forward of the 45 rings α and nearly or quite in line with the main or hip-strap A when in position for use The strap A slidingly engages with its reinforce or stay A' and said longitudinal strap B for the purpose of adjusting the distance be-50 tween said strap and the ring a on each side of the horse, and when properly adjusted, said I

strap A may be securely locked by means of two eccentric levers d, connected to the reinforce A', and bearing on the breeching A.

From the saddle D depend the thill or shaft 55 engaging straps s' and also the usual girth g, from the central portion of which extends diagonally rearward the straps f attached at their ends to the thills or shafts s and arranged substantially in line with straps b and A.

From the point of connection of straps fwith the girth g, extends a strap n, connecting it with the martingale m and collar strap C.

The use of the strap d on the breeching enables the trainer to correct the habit of a 65 horse moving with a sidelong gait which is

not productive of speed.

For heavier work than speeding, I provide the breast collar C, having an integral rigid throat portion, bent slightly forward and 70 downward at C' as seen in Figs. 3 and 4, whereby the collar may be placed high up on the horse out of the way of the movements of the muscles of the fore-legs and shoulders. The bending out of the collar strap at C'also 75 prevents compression of the lungs and throat.

Having thus described my invention, I

claim—

1. The breeching extending up across the horse's hips, and having the straps b b' fas- 80 tened to its ends, combined with an auxiliary strap extending in a line with the breeching, means attached to each end of the auxiliary strap for fastening it to the breeching, and the strap B; the breeching being adjustable 85 endwise in relation to the auxiliary strap so as to correct defects in the horse's gait, substantially as shown.

2. In a harness, the combination with the saddle provided with means of attachment to 90 the thills or shafts and the girth of the longitudinal strap B connected at one end to the saddle and at its other end to the crupper, the breeching A provided at each end with diagonal straps b and b' adapted for attach- 95 ment to the thills, and at its central portion with a reinforce embracing the said strap B, and stops d on said reinforce adapted to engage said breeching, substantially as set forth.

3. In a harness, the combination of the sad- 100 dle, the thill straps, the girth, the longitudinal strap connecting the saddle with the crupper, and the breeching crossing said longitudinal strap at or near the tail of the horse, said hip-strap or breeching being provided with locking levers for adjusting the transverse position of said breeching, substantially as set forth.

4. In a harness, the combination of the saddle, the thill straps and girth, the longitudinal strap connecting the saddle and crupper, the breeching slidingly engaging said longitudinal strap, means substantially as set forth for shifting the position of the breeching transversely and locking the same, a neck strap carrying a longitudinal link therefrom between the fore-legs of the horse to the girth and diagonal branch straps f connected at one end to the central portion of the girth and at their other ends to the thills adjacent.

to the connection of the breeching thereto, substantially as set forth.

5. In a harness the breeching A, provided with the reinforce at its center, rings a, attached to opposite ends of the breeching, straps b, b', fastened to the rings, and locking levers d upon opposite sides of the crupper; 25 and the saddle D, having the thill straps and girth attached thereto, combined with the neck collar C, longitudinal strap n, and diagonal straps f, substantially as set forth.

In testimony whereof I affix my signature 30

in presence of two witnesses.

JAMES LEWIS.

Witnesses:
JOHN C. ROUSSEAU,
MYRON H. JOY.