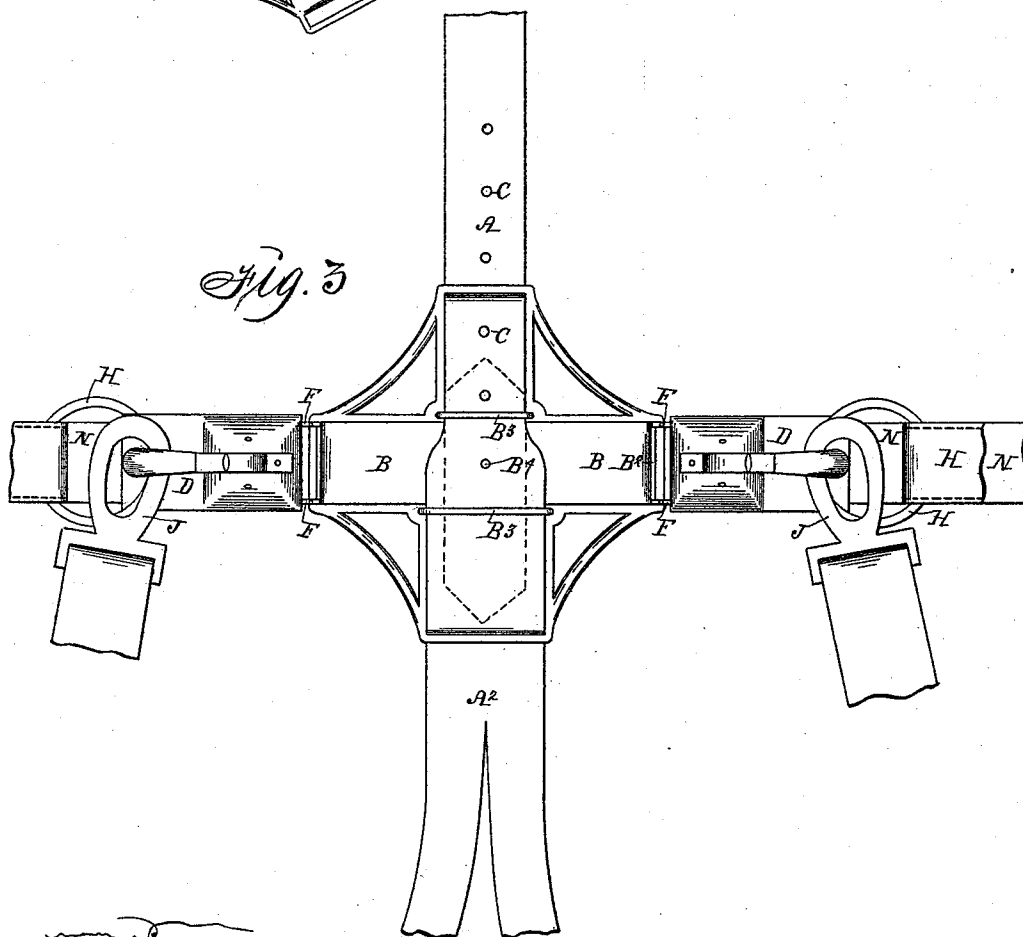
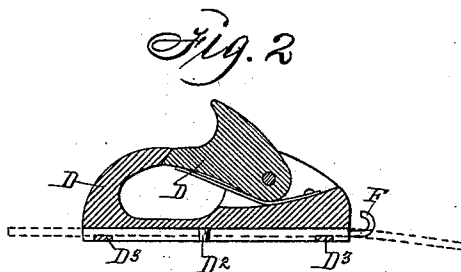
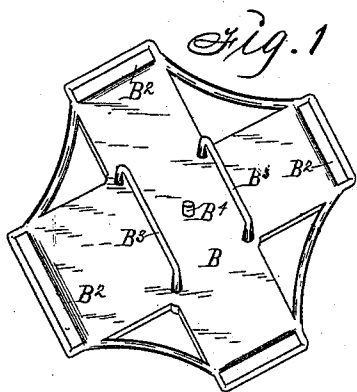


(No Model.)

J. J. GRIFFIN.
HARNESS.

No. 497,541.

Patented May 16, 1893.



Witnesses:
W. J. Soukey.
J. Ralph Orwig.

Inventor: John J. Griffin,
By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

JOHN J. GRIFFIN, OF IRWIN, IOWA.

HARNESS.

SPECIFICATION forming part of Letters Patent No. 497,541, dated May 16, 1893.

Application filed April 28, 1892. Serial No. 430,959. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. GRIFFIN, a citizen of the United States of America, residing at Irwin, in the county of Shelby and State of Iowa, have invented a new and useful Improvement in Harness, of which the following is a specification.

My invention relates to the manner of connecting hip straps and trace carriers with the back strap of a harness and consists in the arrangement and combination of parts as hereinafter set forth, pointed out in the claim and illustrated in the accompanying drawings in which—

15 Figure 1 is a perspective view of a metal frame or coupling device adapted for detachably and adjustably connecting a back strap, a crupper, two hip straps and two trace carriers therewith. Fig. 2 is a longitudinal sectional view of a trace carrier adapted to be 20 adjustably and detachably connected with a hip strap and also adapted to be detachably connected direct with the metal coupling device. Fig. 3 is a top view showing all the 25 parts combined as required for practical use.

Referring to the accompanying drawings the reference letter A is used to designate the back strap and A² the crupper strap.

30 B represents the metal coupling device preferably cast complete in a single piece. It is flat and approximately octagonal in outside configuration and provided with elongated slots B² at its front, rear and side extremities.

35 B³ are loops extending upwardly from the top of the device and adapted to admit the back and crupper straps to be extended there-through.

40 B⁴ is a tongue projecting upward and located concentrically in the top of the device and adapted to enter any one of the series of perforations C in the straps A and A². It is also advantageous for the removal of the crupper whenever desired.

45 D is a trace carrier, in the form of a snap hook and coupling device, the under surface of which is adapted to admit a hip strap to be adjustably connected therewith by means of a tongue D² and cross bar D³ formed on or fixed thereto.

F is a hook at one end of the trace carrier 50 adapted to enter one of the slots B² of the coupling B to detachably connect the trace carrier with the said coupling.

N represents a single back strap that has a perforation in its center. When used it is 55 preferably passed through the loops B² of the coupling B and secured thereto by allowing the tongue B⁴ to enter the said perforation in its center. It will be at right angles to the back strap A and crupper strap A² and may 60 be under or on top of these straps and the trace carriers may be detachably and adjustably connected with the back strap, as indicated in Fig. 2, so that a ring H or a cockeye J on the end of a trace may be detachably 65 connected with the trace carrier as required to support the trace.

It is obvious that the trace carriers can be readily adjusted on the hip strap as required to raise and lower their positions relative to 70 a horse as required to place them within reach of persons of different heights. It is also obvious that the hip strap can be dispensed with in harness for plowing and the trace carrier D 75 connected direct with the coupling B by inserting the hooks F of the trace carrier in the loops B² of the coupling B; or the hip strap N can be retained in its place and the trace carriers detached therefrom and connected 80 direct with the coupling B as shown in Fig. 3.

I claim as my invention—

In a harness, the combination of the coupling device B having a loop B² at each of its four extremities, two loops B³ in parallel position at its central portion and top projecting 85 upward, a tongue B⁴ at its center projecting upward, a back strap and crupper, a hip strap, and a trace carrier D having loops D³ on its under side to admit a hip strap and a tongue D² to engage the hip strap, and a hook 90 F at its end to engage a loop B² of the coupling B, as and for the purposes stated.

JOHN J. GRIFFIN.

Witnesses:

ED. QUINN,
M. J. GRIFFIN.