H. C. HART, Sr.

BRACE ATTACHMENT FOR SEATS.

APPLICATION FILED OCT. 12, 1917.

1,283,168. Patented Oct. 29, 1918.

Fig. 1.

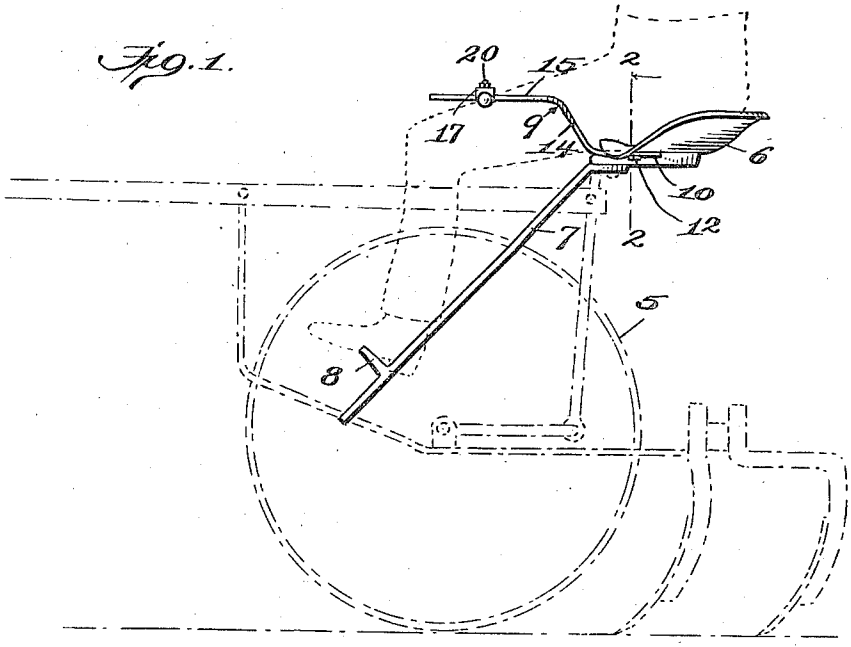


Fig. 2.

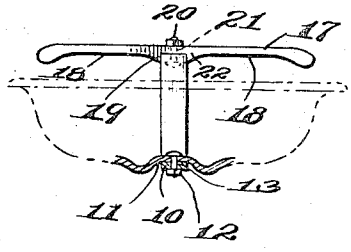
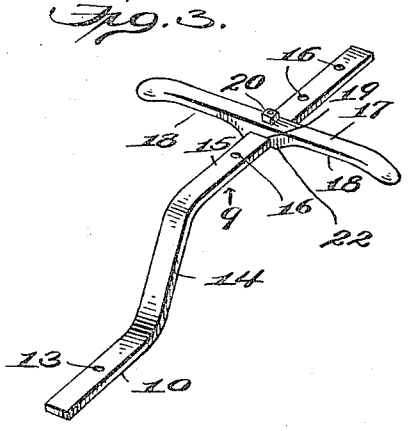


Fig. 3.



Witness

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BRACE ATTACHMENT FOR SEATS.

1,283,168. Specification of Letters Patent. Patented Oct. 29, 1918.

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To all whom it may concern:

Be it known that I, HENRY C. HART, SR., a citizen of the United States, residing at Zephyr, in the county of Brown and State of Texas, have invented new and useful Improvements in Brace Attachments for Seats, of which the following is a specification.

This invention relates to an attachment for cultivators, mowers, rakes, disk-plows, disk-harrows, seeders and planters and other machines to which it may be applicable, and consists essentially of a foot rest and leg or thigh brace which occupies a certain elevation and angle relatively to an operator's or driver's seat and embodies adjustable features to accommodate varying lengths of limbs. The main object of the invention is to provide a support and brace in connection with an operator's or driver's seat for various kinds of machines for engagement by the legs or thighs with such physical and positive pressure as to prevent an operator or driver from being jolted or thrown from his seat and thereby avoid injury to him, and also to provide for a more stable and resistible position of an operator or driver to control a draft team or during the manipulation of mechanical parts of a machine.

In the drawing:

Figure 1 is a side elevation of a part of a cultivator in dotted lines showing a seat in full lines and the improved attachment applied thereto.

Fig. 2 is a transverse vertical section taken in the plane of the line 2—2, Fig. 1, showing the greater portion of the seat in dotted lines.

Fig. 3 is a detail perspective view of the improved attachment.

The numeral 5 designates a machine of any type to which the improved attachment may be applied and embodying a seat 6 and a downwardly and forwardly inclined brace or arm 7 having a cross-piece or foot brace 8 secured thereto. In the present instance the machine as shown by Fig. 1 is a cultivator, but it will be understood that the improved attachment is in nowise restricted in its application to any particular type of machine. The improved attachment essentially consists of a longitudinal bar or arm 9 having a rear straight attaching extremity 10 to fit under the forward central portion of the seat 6 where a concavity 11 is usually provided in seats for use in connection with agricultural and other analogous machines. The extremity 10 is attached to the seat through the medium of a bolt and nut 12 passing through the said seat and an opening 13 in said extremity. From the extremity 10 the bar or arm 9 extends upwardly and forwardly in the form of a connecting member 14 which merges into a horizontal support 15 which may be of any suitable length and is provided with a plurality of openings 16 formed therein at regular distances apart. The length of the member 14 is such that the support 15 will be brought on a level with the thighs of a driver or operator when the latter is resting in the seat 6 with his feet on the foot brace 8, and slidably or adjustably mounted on the support 15 is a cross-bar or leg or thigh brace 17 with the opposite portions slightly cut away or recessed, as at 18. The cross bar or leg or thigh brace 17 is centrally formed with a recess or bottom slot 19 to snugly embrace the support 15, and said cross-bar or leg or thigh brace is secured in its adjusted position on the support by means of a single bolt and nut 20, the bolt passing through one of the openings 16 and an alining opening 21 in the center of the leg or thigh brace. It is proposed to construct the improved attachment of suitable metal to render the same strong and durable, and by reason of the formation of the slot 19 at the center of the lower portion of the leg or thigh brace the application of the latter to the support 15 is rendered positive and rocking or shifting movement thereof is prevented. At the center the leg or thigh brace 17 is enlarged, as at 22, so as to permit the same to extend downwardly over the opposite side edges of the support 15 and give ample material at the center for the formation of the slot 19, and a strong connection of the cross-bar or leg or thigh brace with the support may thus be provided.

In the operation of the device the driver or the operator brings his feet to firmly bear on the brace 8 with the legs or thighs under and engaging the cross-bar 17 with such physical pressure as may be necessary to prevent the driver or operator from being jolted or thrown from the seat 6 as shown by dotted lines in Fig. 1, and, moreover, this bracing of the legs against the cross-bar 17 will be found exceptionally advantageous in controlling a draft team or in operating various mechanical devices in the adjustment of different parts of the machine

with which the attachment may be used. By elevating the support 15 in the manner specified, a driver or operator is enabled to conveniently seat and brace himself through the legs without cramping the legs. At any time desired the leg or thigh brace 17 may be shifted longitudinally on the support 15 to accommodate variations in the physical proportions of drivers or operators, and also to provide for a more positive or stronger pressure by shortening the distance between the said leg or thigh brace 17 and the front of the seat.

The improved attachment may be readily applied to any seat now in use without modifying the construction of the latter, the single bolt 20 being the only means of attachment; yet, if desired, more than one bolt may be used.

What is claimed is:

1. The combination with a seat and foot rest, of a horizontally disposed straight support having a lower attaching extremity at the rear portion thereof connected to the seat, and a transversely extending leg brace mounted on the support above the foot rest and adjustable lengthwise of the portion of the support with which it engages, the leg brace extending outwardly equally from opposite sides of the support.

2. The combination with a seat and a foot rest, of a bar having a lower rear attaching extremity connected to the under side of the forward portion of the seat and continuing in an upwardly and forwardly inclined connecting member merging into a horizontal support, and a cross leg brace above the foot rest provided with a lower central slot to fit over and longitudinally move on the support, and fastening means for holding the said leg brace in position on the support.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HENRY C. HART, SR.

Witnesses:
TOM LEACH,
JNO. W. GOODWIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."