No. 14,477.

W. P. THOMAS.

Horse Stock.

Patented March 18, 1856.



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UNITED STATES PATENT OFFICE.

WILLIAM P. THOMAS, OF HILLSBORO, INDIANA.

HARNESS FOR SHOEING HORSES.

Specification of Letters Patent No. 14,477, dated March 18, 1856.

horse's knee, to prevent him from pulling To all whom it may concern: the foot away from the smith. Be it known that I, WM. P. THOMAS, of R, is a key or wedge (Fig. 2) to confine Hillsboro, in the county of Wayne and State of Indiana, have invented a new and useful the slide Q, in its proper place. a, is a collar, and, b, a hames, constructed 60 5 harness for the purpose of confining horses in any of the ordinary forms. during the process of shoeing and also to c, c, are broad braces, hooking onto the relieve the smith from the labor of sustainhames b, and running back and connecting ing part of the weight of the horse; and I with the breeching, d, by means of the ropes, do hereby declare that the following is a full, q, q, and the pulleys m, m, n, n. It has a 65 10 clear, and exact description of the construcloop, g, for the retention of the backband, f. tion and operation of the same, reference d, is a plain breeching strap, retained in being had to the annexed drawings, making its place by the peculiar arrangement of the a part of this specification, in which ropes q, q, and the pulleys m, m, n, n. On Figure 1, is a perspective view. Fig. 2, the right side the strap, d, has a loop which 70 15 is a view of the bar 2, showing its relation embraces a corresponding loop on the into the wedge R. Fig. 3 is a front elevation side of the trace, e, which admits of a free of the apron p. Fig. 4, is a view of the movement of these parts in relation to each strap k. other, as the harness is adjusted, or re-Similar letters of reference indicate cormoved from the horse. On the left side, the 75 20 responding parts in the several figures. breeching, d, is connected with the trace, e, To enable others skilled in the arts to by means of a short strap, sewed firmly to make and use my invention, I will proceed to describe its construction and operation. each. e, e, are two traces running the entire I erect the posts A, B, B, of timber, of suflength of the horse. The forward end of the 80 25 ficient size and strength; or if convenient right trace, e, is connected with the windthe framework of the building or shed, may lass, M, by means of a rope, u. But the forbe made to answer in their place. Upon the ward end of the left trace e, is connected posts B, B, I place the cap C, provided with with the post E, by a link and hook. The the pulleys G, G. To the top of the post A, traces e, e, have loops h, h, near their for-8530 I adjust the lever D, with a movable joint, ward ends for the passage of the ropes o, o. of any of the known forms. Said lever D Near the flank of the horse, the traces e, e, must be sufficiently long to reach the cap C, are connected with the apron p, by means of as shown. Upon the end of this lever is the strap and buckle j. At the rear they are placed the pulley H. The post F, is firmly connected with the tail lever K by the ropes, 90 35 planted in the ground, or erected in any other sufficiently permanent manner. To its t, t. f is a backband retained in its proper top is fixed the windlass T. At a proper place by the loops g, g, upon the traces, c, c; height I drive the hook J for the support and connected with the breeching d, by of the tail lever K. E is also a post firmly means of the links and cords, l, l. 95 40 fixed; with a recess for the reception of the i, is a broad belly-band or girth, passing windlass L. behind the traces, e, e, and e, e, and con-I, L, and M, are windlasses constructed nected with the lever D, by the ropes, r, r, k, in any of the known forms. (Fig. 4) is a strap passing in front of the N, is a friction pulley, to keep the rope, horse's thighs, and embracing the cords, l, l, 100 45 w, off the post E. on each side. G, G, H, are a set of small pulleys, forml, l, are ropes with hooks and links, coning a system of pulleys, for the elevation of nected with the backband, f, passing down the end of the lever D. In their place a under the pulleys, v, v, up through the loops block and tackle may be used. of the strap, k, behind the traces, e, e, and 105 50 O is a movable clenching stake, with a connected with the breeching d. treadle F and strap, S. m, m, n, n, are pulleys for the ropes, q, q. Q, is a movable slide, formed as shown Their relation to each other and to the other in Fig. 2, or retained in its place, by the parts is such that the weight of the horse wedge R. It is used while driving on the confines the breeching, d, to the traces, c, c. 110 55 front shoes being slid out in front of the

o, o, are two ropes connecting with the hames, b, by the ties and rings. They pass down through the loops, h, h, on traces, c, c, thence under these traces and forward; they 5 connect with each other, and are coiled upon the windlass L, as one rope. The design of this arrangement is to prevent the horse from moving backward.

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p, is an apron of heavy leather, retained 10 in a horizontal position transversely, under the horse's flank by the straps and buckles j, j, which connect it with, e, e, on each side of the horse, and by staples, w, w, which are firmly driven in the floor.

fore shown. The right trace, e, is now brought around upon the right side of the horse. The rope, *u*, can now be attached to the windlass, M, and by a few turns of said 55 windlass the horse is brought nolens volens to his proper place. The ropes, o, o, must now be connected with the hames, b, and brought to a proper tension by the windlass, L. The horse is now secure and the remain- 60 der of the harness can be adjusted without difficulty.

It may be observed that this harness not only sustains a part, or all of the weight of the horse when desirable, but it also con- 65 fines him in such a manner by the counteraction of its parts, that he is unable to struggle, or cause any serious inconvenience to the shoer. What I claim as my invention and desire 70 to secure by Letters Patent, is— 1. The combination of windlass M, with the braces, e, e, the tugs, t, t, and tail lever or swingletree, k, these, or their equivalents, by means of which the horse is brought to 75 his place, and secured from lateral motion, substantially as set forth. 2. I claim the combination of the windlass L, with the ropes, o, o, and the hames, b, these or equivalents, by means of which 80 the horse is prevented from rearing, or moving backward, in substance as set forth. 3. I claim the combination of the cords q, q, with the pulleys, m, m, n, n, the breeching, d, and the braces, c, c such an arrange- 85 ment of the parts, that the breeching, d, is firmly held in its place by the weight of the horse, substantially as indicated. 4. I claim the combination of the backband, f, with the part, l, the pulley, v, the 90 rope, x, and the breeching, d, these or equivalents, by means of which, the horse is prevented from raising his hinder parts, and the breeching, d, is prevented from rising up. 5. I also claim the sliding bar, 2, by which 95 the horse is prevented from pulling his foot away while the front shoes are being driven on, substantially as represented. WILLIAM P. THOMAS. Signed in presence of— JOHN FINLEY, GEO. TAYLOR.

15 q, q, r, r, are a set of ropes, running overthe lever D, and connected with the harness, as already shown. By means of their combination with the harness, the lever D, the pulleys, G, G, H, the rope U, and the wind-20 lass I, the horse is lifted as much as desirable.

S, is a strap which in combination with the treadle P, is used for confining the horse's foot to the movable stake O, during 25 the process of clenching.

t, t, are rope tugs or braces which connectthe traces, e, e, with the tail lever or singletree K.

u, is a rope connecting the trace e, on the 30 right side, with the windlass M.

v, v, are pulleys for the passage of the rope parts of l, l; they are retained by the rope x running to the staple, w. The nature of the combination of the parts f, l, l, v, v, k, 35 is such, that as the horse attempts to raise

his hind parts, the breeching d, is drawn down by the tension of the parts, *l*, *l*, under pulleys v, v, occasioned by raising the backband, f. This contrivance prevents the 40 breeching d, from rising up under the horse's tail from the struggling of the animal, as it otherwise would.

y, y, are two spreaders, to keep the ropes q, q, and r, r at proper distances apart. z, 45 is a swing for the feet, to be used while driving on the shoes.

The harness is adjusted in the following manner. The horse is brought as nearly to the position shown in the drawing as con-50 venient, the left trace, e, being already secured to the post, E, in the manner hereto-

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