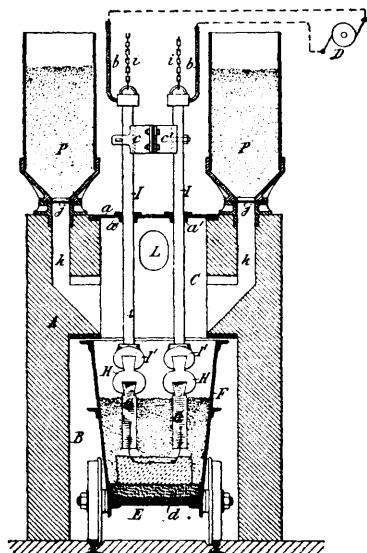


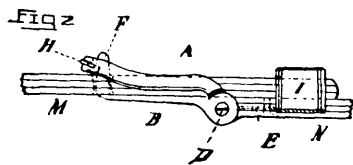
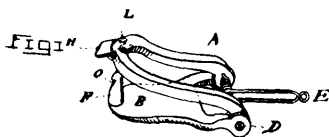
into said product, and from the latter to the other carbon, thereby eliminating increase of resistance as the mass of product increases



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in height. 2nd. An electric furnace comprising chambers B and C, crucible F movable into said chamber B and having a carbon bottom d, a pair of carbon pencils C, C, upright rods I, I, carrying said pencils and movable up and down, said pencils movable up into chamber C and down into the crucible, and a generator, the opposite terminals of which are connected to said carbon pencils respectively. 3rd. An electric furnace comprising a crucible or furnace chamber, a pair of carbon pencils, holders for said pencils, upright rods I, I, carrying said holders and movable up and down, and an insulating clamp connecting said rods for holding them at a fixed distance apart and ensuring their equal movement.

No. 63,053. Harness Buckle. (Boucle de harnais.)



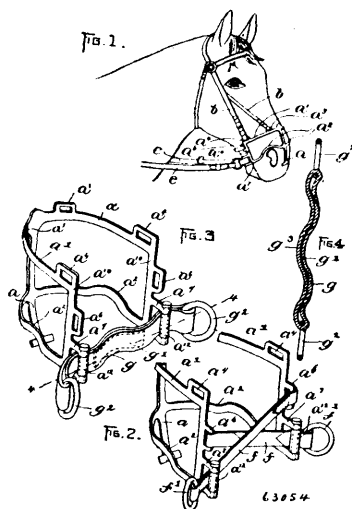
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George Shoenberger and George A. Lawrence, both of Long Beach, California, U.S.A., 15th May, 1899; 6 years. (Filed 14th March, 1899.)

Claim.—1st. In a buckle, the combination of the following parts, the loop A pivotally attached to the tongue-plate B, the latch H pivotally attached to the free end of the loop A, the spring L housed in the free end of the loop A and adapted to spring-press shut the latch A, the tongue-plate B having mounted on the free end thereof and integral therewith, the tongue F containing notch O, adapted to receive the latch H to keep the buckle closed, the chape D adapted to pivotally attach together the loop A and the tongue-plate B, the spring E, adapted to throw the loop A back from the tongue-plate B, substantially as shown and described herein. 11th. In a buckle, the loop and tongue-plate having a tongue with a notch therein pivotally attached together, the latch H pivotally mounted on the free end of the loop and adapted to engage with the notch O in the tongue F, whereby the loop A is held in contact with the tongue F when the buckle is closed. 3rd. In a buckle, a loop A pivotally attached to the tongue-plate B by a screw E forming the chape, the spring E placed on the chape D, and adapted when in its normal position to hold the free ends of the loop A and the tongue-plate B apart or open, as shown and described herein.

No. 63,054. Horse Controller.

(Appareil à contrôler les chevaux.)



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The Humane Bridle Company, Boston, assignees of Daniel Rupert Porter, Chelsea, both in Massachusetts, U.S.A., 15th May, 1899; 6 years. (Filed 14th March, 1899.)

Claim.—1st. A horse controlling device comprising a rigid bar formed to extend along the median line of the lower portion of a horse's head, its lower portion being curved inwardly and formed to bear on the flexible portion of the nose between the nostrils, and side portions extending from the said bar and formed to bear on opposite sides of the head, said devices having suitable strap and rein engaging devices. 2nd. A horse controlling device comprising a rigid bar formed to extend along the median line of the lower portion of the horse's head, its lower portion being curved inwardly and formed to bear on the flexible portion of the nose between the nostrils, and side portions extending from the said bar and formed to bear on opposite sides of the head, said devices having suitable strap and rein engaging devices. 3rd. A horse controlling device comprising a bar formed to extend along the median line of a horse's head, its lower portion being curved inwardly and formed to bear on the flexible portion of the nose between the nostrils, upper transverse arms extending laterally from the upper end of said bar and formed to bear on opposite sides of the nose, lower transverse arms extending from the bar below the upper arms, rigid connections between the rear portions of said upper and lower arms, and eyes or loops formed to engage suitable straps and reins. 4th. A horse controlling device comprising a rigid bar formed to extend vertically along the median line of the lower portion of a horse's head, its lower portion being curved inwardly and formed to bear on the flexible portion of the nose between the nostrils, and side portions extending from said bar and formed to bear on opposite sides of the head, rein engaging eyes on said side portions, and a nose compressing device movable endwise in said eyes and having means for engagement with a pair of reins. 5th. A horse controlling device comprising a rigid bar formed to extend vertically along the median line of the lower portion of a horse's head, its lower portion being curved inwardly and formed to bear on the flexible portion of the nose between the nostrils, and side portions extending from said bar and formed to bear on opposite sides of the head, rein engaging eyes on said side portions, and a strap movable in said eyes and formed to extend across the under jaw, said strap having a central protuberance formed to enter the hollow of the under jaw.

No. 63,055. Trace Fastener. (Attache de traits.)

Ira Williams and George N. Smith, both of Jamestown, Massachusetts, U.S.A., 15th May, 1899; 6 years. (Filed 21st February, 1899.)

Claim.—1st. In a trace-fastener, a spring catch consisting of a metal plate with openings therein, a spring attached to said plate, a catch-bar with square body and a handle and tongue to work in said openings, substantially as shown and described and for the purpose set forth. 2nd. In a trace-fastener, a metal strip attached to the upper side of the singletree and bent to form a spring loop to hold the trace, the outer lip of the loop bent down and around the spring-loop and attached to the underside of the singletree, as shown and described and for the purpose set forth. 3rd. In a trace-fastener, a spring-catch consisting of a metal plate with openings, a catch-bar with tongue and handle to work in said openings, a spring to work on the squared sides of said catch-bar, a spring-loop slack-