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INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 37,250. Replacer for Cars. (*Lève char.*)

Norwood Car Replacer Company, Baltimore, assignees of John E. Norwood, Sykesville, Maryland, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. The combination, with the rail, of the outside replacer shell A, having a bridge with a transverse hole extending therethrough, and provided with a groove, a clamp running through said holes and beneath the rail, and having at one end a hook which engages the inside of the rail flange, and at its opposite end an arm provided with a groove coinciding with that in the bridge of the shell, and a key introduced between the bridge and said arm and shell, occupying the said coinciding grooves, for the purpose set forth. 2nd. The combination, with the rail, of the inside replacer shell B, having a flange fitting up to the said rail, a clamp connected at one end to the said flange, and extending beneath the rail to the outside end of the same, and a key introduced between the outer end of said clamp and the outside of the rail, whereby the replacer shell is clamped in position. 3rd. The combination, with the rail, of the inside replacer shell having a hole *m'*, through that portion adjoining the said rail, a clamp extending beneath the rail and having at one end an arm which is introduced through said hole, and provided at the opposite end with an upward projection on the outside of the rail, and a key introduced between the said upward projection and the rail, whereby the replacer shell is clamped in position. 4th. The combination of the rail, the inside replacer shell B, clamped thereto and having a flange extending across its broad end, and a bur *p*, on each side of the flange, a reversible slug extending loosely through the said flange and having projections on its opposite ends, and an extension rail, the flange of which fits beneath one of said burs, and one of the projections of said loose slug, as set forth. 5th. The combination of the track rail and an extension rail G, the inside replacer shell clamped to the track rail and having a flange extending across its broad end, and an abutting wall *o*, on each side of the flange, and means attached to the shell, flange for confining the base flanges of the extension rail, as set forth.

No. 37,251. Tire Bolt Wrench.

(*Clé à écrou pour boulons de bandage.*)

James A. Ross, Smith's Creek, Michigan, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. The combination, with a tire bolt wrench, comprising a frame A, wrench shaft B, actuating crank C', and meshing pinions B', C', all arranged as and for the purposes described, of a projecting arm D, provided with an eye E, and a cross bar F, passing through said eye, said cross bar being adapted to rest upon the spokes of the wheel, when the wrench is in operation, substantially as described. 2nd. The combination, with a wrench head, of a supplemental head, one end socketed, and adapted to fit over the said wrench head, and the other end socketed, and adapted to fit on the outside of a larger or smaller nut than the said wrench head, substantially as described. 3rd. A tire bolt wrench, consisting of a frame, with a cross bar adapted to rest upon the spokes of the wheel, and a wrench head, and in connection therewith, a supplementary head, one end socketed and adapted to fit over the said wrench head and the other end socketed and adapted to fit on the outside of a larger or smaller nut than said wrench head, a wrench shaft, and a crank shaft, said shafts journaled in a plane, perpendicular to the cross bar, and the crank shaft adapted, by reason of the distance between itself and the wrench shaft, to extend out beyond the periphery of the wheel, meshing pinions mounted upon the said shafts, and an actuating crank, engaging the crank shaft outside the periphery of the wheel, and adapted to be turned at right angles to the wrench shaft, substantially as described.

No. 37,252. Cultivator and Harrow.

(*Herse scarificateur.*)

Benjamin Franklin Westmoreland and Franklin Walker Eady, both of Robertson, Louisiana, U.S.A., 1st September, 1891; 5 years.

Claim.—The improved cultivator herein described and shown, consisting of the tongue, the divided standard swiveled to the rear end of the tongue, the caster-wheel journaled in the lower end of the said standard, the tooth-bar pivoted to the tongue in advance of the said standard, the teeth carried by said bar, and the yoke having its ends pivoted to the end teeth and its central portion adjustably secured to the tongue, as set forth.

No. 37,253. Tube Scraper. (*Nettoyeur de tubes.*)

Edward Heathcote Jeeves, Port Rowan, Ontario, Canada, 1st September, 1891; 5 years.

Claim.—1st. The combination, with the cone head A, having free overlapping edges from base to apex, and a shank or handle secured to the smaller end of a socket G, having a contracted end screwing on said shank or handle and extending over the outside of said cone head, so that by screwing said socket the larger end of the cone head will be contracted by pressure of the socket thereon, as and for the purpose set forth. 2nd. The combination, with the contracting and expanding cone headed scraper A, having a shank or handle attached to the smaller end of the screw socket G, screwing on said shank or handle, and a washer or ring H, intervening said head, and the end of the socket to frictionally receive the thrust of the socket when contracting the head, as set forth. 3rd. The combination, with the scraper head A, having a shank B, of the socket G, coupling J, and handle C, as set forth.

No. 37,254. Nut Wrench. (*Clé à écrou.*)

Robert L. Fosburgh and John F. Milligan, both of St. Louis, Missouri, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. In a ratchet nut wrench, a handle in which is revolvably secured a nut turning head, a bifurcated pawl pivotally secured to said handle with its two legs embracing said head, and adapted to engage with said head in recesses formed in the circumference of the same, in combination with a spring attached to said pawl, and a wedge-shaped sliding block secured on said handle capable of engaging with said spring combined and operating, substantially as described and for the purposes specified. 2nd. In a nut wrench, a handle to which is secured a double-ended nut turning head, formed with relatively different sized non-adjustable counter-sunk nut receiving recesses, in combination with reducing dies removably secured within, said recesses and retaining clip-springs secured to said reducing dies adapted to be sprung into a recess or groove formed therefor in the said head piece, combined and operating, substantially as described and for the purposes specified. 3rd. In a ratchet nut wrench handle A, head C, collar D, bifurcated pawl F, recesses I, spring K, tilting block L, and retaining screw M, combined and operating, substantially as described and for the purposes specified.

No. 37,255. Device for Teaching the Arts of Writing and Drawing. (*Appareil pour enseigner l'art d'écrire et de dessiner.*)

Thomas K. Ewing, Milwaukee, Wisconsin, U.S.A., 1st September, 1891; 5 years.

Claim.—1st. As an article of manufacture, a slate having letters, figures, characters, or other designs printed or painted thereon, and the same letters, figures, characters or designs in duplicate form in intaglio thereon, letters, characters or designs in duplicate form in intaglio thereon, letters, characters or designs, substantially as described. 2nd. As an article of manufacture, a slate having letters, figures, characters or other designs printed or painted thereon, and the same letters, figures,