

to heat the water, and the hose E F, the whole being mounted upon a suitable vehicle and arranged to co-operate substantially as and for the purpose set forth.

No. 27,140. Attachment for Cooking Vessels. (*Disposition aux ustensiles de cuisine.*)

Ralph A. Willison, Hartwell, Ohio, U.S., 9th July, 1887; 5 years

Claim.—An attachment for a cooking vessel, consisting of a metallic frame having at its upper part, a flanged rim whereby it is supported in the vessel, the wires connecting with said rim and descending to form the bottom, a bail attached to the upper ends of said wires, and a removable wire crate or basket fitting within said frame, substantially as described.

No. 27,141. Machine for Making Spur Wheel Fencing. (*Machine à faire les garde-roues dentées.*)

Chester A. Hodge, Chicago, Ill., (assignee of John Willoughby), Desoto, Mo., U.S., 11th July, 1887; 5 years.

Claim.—1st. In a machine for manufacturing spur wheel fencing, the combination, with a feed device for the main fence-wires, of a spur-wheel carrier, a pivot wire feed device, knives for severing the pivot bending of folding devices, and dies or clinchers for pressing the folded ends of the pivot into position, substantially as specified. 2nd. In a machine for manufacturing spur-wheel fencing, the combination, with the feed device for the main fence wires, of a spur-wheel carrier, a feed device for delivering the spur-wheels one by one to said carrier, a pivot wire feed device, knives for severing the pivot, pivot bending or folding devices, and dies or clinchers for pressing the folded ends of the pivot into position, substantially as specified. 3rd. The combination, with suitable guides or supports for the two fence strands, of a spur-wheel carrier or device for moving the spur-wheel into position between the two fence strands, and a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, substantially as specified. 4th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, substantially as specified. 5th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel and knives for severing the pivot-wire, substantially as specified. 6th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence-strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, and knives for severing the pivot-wire, said knives being set or arranged with their cutting-edges at right angles to the direction of the pivot-wire, substantially as specified. 7th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence-strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, knives for severing the pivot-wire, and bending devices for folding the ends of the pivot about the two fence-strands, substantially as specified. 8th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence-strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, knives for severing the pivot-wire, bending devices for folding the ends of the pivot about the two fence-strands, and dies or clinchers for pressing the folded ends of the pivot into the required form, substantially as specified. 9th. The combination, with a spur-wheel carrier or device for conveying the spur-wheel into position between the two fence-strands, of a pivot-wire feed device for thrusting the pivot-wire through the opening in the spur-wheel, knives for severing the pivot-wire bending devices for folding the ends of the pivot about the two fence-strands, and dies or clinchers for pressing the folded ends of the pivot into the required form, said dies or clinchers having slots or recesses for the spur-wheel, substantially as specified. 10th. The combination, with devices for bending the ends of the pivot about the two fence-strands, of slotted dies or clinchers for finishing said operation, substantially as specified. 11th. The combination with devices for bending the ends of the pivot-wire about the two fence-strands, of a pair of reciprocating dies or clinchers having slots for the spur-wheel, substantially as specified. 12th. The combination, with a rotary coiling or bending shafts C, C, of slotted clinchers or dies G, G, substantially as specified. 13th. The combination, with a vibrating or swinging spur-wheel carrier D having clamps d, of a rotary feed-wheel K having pins k on its periphery, and a supply tube L, substantially as specified. 14th. The combination, with two parallel coiling shafts C, C, provided with gears o₃, o₃, of a reciprocating double rack o₂ for actuating the same, substantially as specified. 15th. The combination, with two parallel rotary coiling shafts C, C, provided with gears o₃, o₃, of a reciprocating double rack o₂, cam Q, lever o, and link o₁ for actuating the same, substantially as specified. 16th. The combination, with a vibratory or swinging spur-wheel carrier D, provided with clamp d, of a cam and suitable connecting mechanism for actuating said clamp, substantially as specified. 17th. The combination, with a spur-wheel carrier D, of clamp d, cam P, link p, crank p₁, hollow shaft p₂, cam Q, lever q, pin q₁ and lever q₂, substantially as specified. 18th. The combination of clincher or dies G, G, with cam S, T, levers s, t, and links st, t, substantially as specified. 19th. The combination, with supply tube L, of feed-wheel K having pins k on its periphery, and a curved guard H, substantially as specified. 20th. The combination, with a supply tube L, of feed-wheel K having pins k upon its periphery, cams U, lever u, link u₁, pawl lever u₂, and ratchet u₃ on the shaft of said feed-wheel, substantially as specified. 21st. The combination, with two parallel guides or supports for the two fence wires a, a, of a carrier or device for conveying the spur-wheel into position between said fence wires, said carrier having a semicircular seat or recess for said spur-wheel, substantially as specified.

No. 27,142. Device for Supporting Harrow and Cultivator Teeth to Supporting Beams. (*Appareil pour assujétir les dents des herse et des scarificateurs aux bâtis.*)

Daniel McKenzie and Aaron Burdick, Jimiata, Mich., U. S., 11th July, 1887; 5 years.

Claim.—1st. The combination, with the tooth-bar, of the coupling-plate having ribs G across its face, the tooth pivotally attached to its lower end, the spring F having its upper end held between the tooth-bar and the coupling plate, and having its lower end connected to the tooth, and the clip or U-shaped bolt passed through the tooth-bar and across the coupling-plate between the ribs G, substantially as set forth. 2nd. The combination, with the tooth-bar, of the coupling-plate having ribs C across its face, the tooth pivotally attached to the lower end of the plate, the spring F having its upper end held between the coupling-plate and the tooth-bar, and having its lower end provided with the wings f projecting forward of the tooth, a bolt passed through these wings across the face of the tooth, and the clip passed through the tooth-bar and across the face of the coupling-plate between the ribs G to secure the several parts together, substantially as specified. 3rd. The combination with the tooth bar, of the coupling-plate provided at the upper end with wings E and at the lower ends with lugs c, and having the rib G across its face about midway the ends, the tooth having its upper end pivotally secured between the lugs c, the spring F having its lower end connected to the tooth, and its upper end held between the coupling-plate and the tooth-bar, and between the wings E and the clip passed through the tooth-bar and across the coupling-plate between the ribs G, substantially as described and shown.

No. 27,143. Foot Cushion for Horses.

(*Bouretlet pour sabot de cheval.*)

James H. Dempsey, James T. Bennett, and Frederick M. Baird, Chicago, Ill., U.S., 11th July, 1887; 5 years.

Claim.—1st. As a new article of manufacture, a foot cushion for horses, the same comprising a yielding rubber body flat upon its upper face, continuous over the bottom of the foot, and having upon its under side and integral therewith a frog-cushion conformed to extend beneath and elastically sustain the frog of the foot, and having also thickened heel calks to elastically sustain the heel quarters and cause a slight lateral expansion of the foot at such point, and having a reduced portion in front of the heel calks to receive a short iron shoe, substantially as described. 2nd. As a new article of manufacture, a foot cushion for horses, the same comprising a yielding rubber body continuous over the bottom of the foot, and having upon its under side and integral therewith a frog cushion conformed to extend beneath and elastically sustain the frog of the foot, and provided upon its lower surface with the deep intersecting grooves extending obliquely towards the centre from the rear edge of the cushion, and having also thickened heel calks to elastically sustain the heel quarters and cause a slight lateral expansion of the foot at such point, and having a reduced portion in front of the heel calks to receive a short iron shoe, substantially as described.

No. 27,144. Lubricating Composition.

(*Composition lubrifiante.*)

The Dreher Manufacturing Company, New York, N. Y. (assignee of Hirom J. Dreher, Bloomingdale, N. J.), U. S., 11th July, 1887; 5 years.

Claim.—1st. A lubricating composition, composed of refined paraffine wax, refined tallow, refined petroleum oil, and refined plumbago, in about the proportions specified, substantially as and for the purpose set forth. 2nd. The method herein specified, of preparing a lubricating composition of paraffine wax, refined tallow, refined petroleum oil and refined plumbago, consisting in mixing and combining the paraffine wax and refined tallow in a heated condition, adding the refined petroleum oil, and then the refined plumbago, thoroughly commingling the mass and allowing the mass to cool for use, substantially as specified.

No. 27,145. Production of Colored Photographic Pictures. (*Production de photographies en couleur.*)

Edward W. Parkes, London, Eng., 11th July, 1887; 5 years.

Claim.—The process of producing colored photographs, by coloring the back of the pellicle having the positive photographic picture upon it with the desired colors in flat tints, substantially as described.

No. 27,146. Horse Collar. (*Collier de cheval.*)

Daniel J. Thompson, Dutton, Ont., 11th July, 1887; 5 years.

Claim.—1st. In a horse collar, the combination of outer frame A, inelastic sock or tube B, and elastic air-filled tube or sock C, substantially as shown and specified. 2nd. An air-tight sock or tube C filled with compressed air, in combination with a horse collar, and forming the packing thereof, substantially as shown and specified.

No. 27,147. Convertible Stand. (*Dressoir brisé.*)

Frederic S. Weatherley, Quebec, Que., 11th July, 1887; 5 years.

Claim.—1st. The herein described convertible stand composed of the pairs of parallel corner posts a, a, and B, B, the end cross bars C, D, E and F connecting the posts of each pair, the pairs of side bars G and H connecting the posts A, B and A, B respectively, and the removable boards N, having the side notches O and P, the said posts end and side bars all having a like cross section adapted to the notches O and P in the boards, as and for the purposes set forth.