

**No. 35,093. Extension Foot.** (*Rallonge-pied.*)

Edward L. O'Connor, Cincinnati, Ohio, U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. The foot A, having spring-jointed toe-section a, in combination with the instep C, and heel support D, substantially as shown and described. 2nd. The combination of the extension foot A, having jointed spring toe section a, the metal instep C secured to the forward end of said foot, the metal heel piece secured to and projecting above the heel rest on top of foot A, and covering B, for encasing the foot. 3rd. The sheet metal blank C, for forming an artificial instep for an extension foot, as a new article of manufacture. 4th. The sheet metal support D, adapted to be secured to the artificial extension foot A, substantially as shown and described. 5th. The combination, substantially as hereinbefore set forth in an extension foot, of the foot, the toe section a, the hinge piece a' uniting the foot and toe section, the springs a<sup>2</sup> interposed between the foot and the toe section, the metal instep C, c, secured to the forward end of the foot section, the metal heel piece D, secured to the foot and projecting above the heel rest, and the upper E, secured to the foot A, and adapted to tightly encase the lame foot within the foot extension.

**No. 35,094. Miners' Lamp.**(*Lampe de sûreté de mine.*)

Peter J. Miller, Upper Lehigh, Penn., U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. A miner's lamp, having a wick-tube provided with an annular groove 7, forming a receptacle for oil draining through the wick, and adapted to return the oil to the body of the lamp, substantially as and for the purpose described. 2nd. A miner's lamp, having its wick-tube provided with a flaring mouth 6, and an annular groove 7, arranged beneath the flaring mouth, substantially as and for the purpose described.

**NO. 35,095. Wash Boiler.**(*Chaudière de buanderie.*)

Mary L. W. Martinot, New York, N.Y., U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. In a wash boiler, or similar device, the combination, with a vessel divided into a series of compartments, the walls of which compartments are corrugated, of receptacles, each containing a perforated bottom and fitted to the said compartments, substantially as shown and described. 2nd. In a wash boiler, or similar device, the combination, with a vessel divided into a series of compartments, the walls of which compartments are corrugated, and horizontal apertured false bottoms located in said compartments, of receptacles, each containing a perforated bottom and fitted to the said compartments, being adapted to rest upon the apertured false bottoms therein, substantially as shown and described. 3rd. In a wash boiler, or similar device, the combination, with a vessel divided into a series of compartments, the walls of which are corrugated, a water chamber at the bottom, beneath the said compartments, and spider-like false bottoms horizontally supported in the compartments, of interior flanges projecting over the outer walls of the compartments, and receptacles provided with a reticulated bottom fitted to the compartments, and adapted to rest upon the spider-like bottoms therein, substantially as shown and described. 4th. In a wash boiler or similar device, the combination, with a vessel divided into a series of compartments, the walls of which compartments are corrugated and provided below the said compartments with a water chamber having a faucet outlet, spider-like false bottoms horizontally located in said compartments between their centers and lower ends, and a horizontal flange attached to the upper inner portion of the vessel, and extending over the outer walls of the compartments, of a detachable lid fitted to the vessel above the upper flanges, and bucket-like receptacles provided with a reticulated or perforated bottom and an attached bail, the said receptacles being removably fitted in the said compartments, and adapted to rest upon the spider like false bottoms thereof, as and for the purpose specified.

**No. 35,096. Metal Lathing.** (*Lattis métallique.*)

Walter W. Bostwick, Brooklyn, N.Y., U.S.A. (assignee of Ira S. Elkins, New York, N.Y.), 1st October, 1890; 5 years.

*Claim.*—1st. A metal lath, consisting of a piece of metal formed with a series of pairs of parallel slits arranged at suitable intervals, and having a body of the metal between the slits of each pair drawn forward or upward to form loops, all upon the same side of the sheet, and the edges of the slits adjacent to the loops, being provided with forwardly or upwardly turned flanges. 2nd. A sheet metal lath, having loops made in its face, arching over the opening thus formed, the edges of the openings having upward flanges, substantially as specified. 3rd. As a new article of manufacture, a sheet lath, having loops made at regular intervals over its entire surface on one side only, and upwardly and forwardly turned flanges along the edges of said openings, substantially as described. 4th. A metal lath, having expanded loops on one side only, the said loops covering or arching over the openings from which the loops are formed, substantially as described.

**No. 35,097. Cord Holder for Knotters of Harvester Binders.** (*Porte ficelle pour noueurs de lieuses à grain.*)

Thomas Henry Noxon, Ingersoll, Ont., Canada, 1st October, 1890; 5 years.

*Claim.*—1st. A tension wheel A, having a groove b made around it below the cord notches f, in combination with the clamp C, having a rib a formed on it to fit into the groove b, substantially as and

for the purpose specified. 2nd. In a knotter, a knife F, having an offset made in it to clear the bill-hook G, and bring its cutting edge close to the said bill-hook, substantially as and for the purpose specified. 3rd. A tension wheel A, having a groove b, made around it below the cord notches f, and provided with a clamp C, having a rib a, formed on it to fit into the groove b, in combination with a knife F, having an offset made in it to clear the bill-hook G, and bring its cutting edge close to the said bill-hook, substantially as and for the purpose specified.

**No. 35,098. Cattle Guard.** (*Garde-bétail.*)

James Thomas Hall, Chicago, Ill., U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. In a cattle-guard, an inclined shield adapted to protect the cross-bars, substantially as described. 2nd. In a surface cattle-guard, composed of guard rails assembled together into gratings, of supplementary teeth or bars on the sides of the guard-rails, substantially as described. 3rd. In a surface cattle-guard, a double inclined shield secured over the connecting bar between the guard-rails, substantially as described. 4th. In a surface cattle-guard, composed of a series of bars, a bar having sections pressed out to present a supplementary series of upwardly projecting edges, substantially as described. 5th. In a surface cattle-guard, composed of guard-rails, assembled together into the form of gratings, by means of cross-bars, of a combined thimble and shield between said guard-rails, substantially as described. 6th. In a surface cattle-guard, composed of a series of bars collected together into gratings of inverted V-shaped sections, pressed out of each bar alternately upon opposite sides, to present a supplementary series of upwardly projecting teeth, substantially as described. 7th. As a new article of manufacture, a shield for cattle-guards, struck out by dies consisting of an inverted V-shaped piece of metal, having a depressed stirrup, such as c, substantially as described.

**No. 35,099. Cattle Guard.** (*Garde-bétail.*)

James Thomas Hall, Chicago, Illinois, U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. In a railway surface cattle guard, an inner section A, consisting of two parts detachably secured together, and the outer sections B, C, substantially as described. 2nd. In a railway surface cattle guard, the inner section A, consisting of two parts hinged together centrally, and adapted to be secured to the rail at their edges and of outer sections B, C, substantially as described. 3rd. In a railway surface cattle guard, the combination of sections composed of bars set up on edge, and secured to the cross bars having shouldered ends adapted to engage under the foot of the rails, substantially as described. 4th. In a railway surface cattle guard, the combination of the sections B, C, D, and E, consisting of bars set up on edge and secured to cross bars, having shouldered ends adapted to engage under the foot of the rails between the ties and the aperture H of the hooks I, the meeting ends of the sections D, E, the parts being adapted to operate, substantially as and for the purpose described.

**No. 35,100. Mechanical Fire Starter and Lighter.** (*Allumoir.*)

Marvin McOmber, Ottawa, Kansas, U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. In an automatic fire starter, the combination, with a base, of a match arm pivotally secured thereto at one end, and adapted to receive a match at the other end, a spring for operating the arm, and a thin flexible ignition plate, having one end secured to the base, and its other end raised or elevated, and in the path of the free end of the match arm, substantially as described. 2nd. The combination, with a supporting base, of the pivot post 8, thereon, the match holder arm 7, pivoted at one end on said post, and having the match groove 11, and keeper spring 12, at its opposite end, the ignition plate 4, the latch post 15, recessed at its upper end, the pivoted latch lever, the lanyard 2, 2, connected with one end of said lever, the bell crank levers and connections, and the notched peg on the match holder arm, all adapted to operate, substantially as specified. 3rd. In an automatic fire starter, the combination, with the pivoted spring actuated match holder arm, having its outer end provided with a match receiving notch, of a spring keeper secured over said notch, the latch post notched at its upper end, the latch lever pivoted thereto, and the stop post 30, all substantially as specified.

**No. 35,101. Grain and Seed Separator and Grader.** (*Séparateur des grains, etc.*)

Walter S. Wood, Kalamazoo, Michigan, U.S.A., and Buckner F. Freeland, Vistula, Indiana, U.S.A., 1st October, 1890; 5 years.

*Claim.*—1st. In a grain and seed separator, of the character herein described, the combination of the hopper-bottom a', the slide or gate c, the arms e, e, pivotally attached thereto, the caps d, and d', the arms e, e, pivotally attached thereto, the screw g, with a threaded portion having pivotal projections P, the spring k, and hand wheel i, engage in end of strap f, Journal box h, spring k, and hand wheel i, all substantially as shown, and for the purpose as set forth. 2nd. In a grain and seed separator, of the character herein described, the combination of hopper-bottom a', the slide or gate c, having hooks or stirrups s, s, s, and the agitator n, having teeth n', the slotted arm z, the elbow-crank m, pivotally adapted to work in slot of arm z, the cap d, and connecting rod r, all for the purpose as shown and described. 3rd. In a grain and seed separator, the shoe D, constructed with a hopper-bottom provided with the opening l, and wind-board w, the chesing-shoe C, also constructed with a hopper-bottom, and provided with the opening z, in combination, substantially as shown and described. 4th. In a grain and seed separator, the crank-wheel I, provided with the projecting rim G, and openings or recesses M, and M', the crank-pin disk L, having a pivotal bearing at j, and the