

and for the purpose set forth. 5th. In a brick-machine, the stationary table C, curved arms a, jointed plunger Y3, bolt Tr, cam W, spring U, in combination with the revolving mold-table B, bolt Y4, latch Y5 and springs c, substantially as and for the purpose specified. 6th. In a brick-machine, the combination, with the revolving table B, of the plungers E carrying the three-cornered bevelled dies i, substantially as and for the purpose specified. 7th. In a brick-machine, the revolving table B having the loose bottoms l arranged within the molds D, in combination with the adjustable carriers m, substantially as described. 8th. In a brick-machine, the mold-table B having loose bottoms l resting upon the adjustable carriers m, in combination with the plungers R, slotted cam K and lever Q, for pushing down the loose bottoms of the moulds, substantially as and for the purpose set forth. In a brick-machine, the combination, with the plungers E carrying the three-cornered bevel-dies i, of the revolving table B with table carriers l, arranged within the molds D and resting upon adjustable carriers m, substantially as and for the purpose described. 10th. In a brick-machine, the combination, with the tables B, C, plungers E, G, H and the forked plunger O, of the several cams, eccentrics, shafts and gearing for operating them, substantially as and for the purpose set forth.

No. 18,690. Bit Brace. (*Vilbrequin.*)

John Watson, Buffalo, N. Y., U. S., 16th February, 1884; 5 years.

Claim.—1st. A bit brace consisting of the slotted barrel a1, provided with the curved portions b3, in combination with the jaws provided with the pins d, the head a, the follower and the screw-sleeve, substantially as and for the purposes described. 2nd. In a bit brace, the combination of the follower a4, guideways b and the screw sleeve a3, substantially as and for the purposes described.

No. 18,691. Truck for Moving Reapers. (*Chariot pour Moissonneuses.*)

Robert Chestnut, Richmond, Ind., U. S., 16th February, 1884; 5 years.

Claim.—1st. The curved arms E, E, when inclined upward and forward, in the manner and for the purpose, as herein set forth. 2nd. The arrangement and combinations of the wheels A, A, axle F, arms E, E, stay rod N and tongue D, substantially as described. 3rd. The pedestal L, in combination with the axle F, connected and operating as described. 4th. In carriage or truck, the rods H, H and I joined at their front ends, in combination with the hooked plate G, in the manner and for the purposes set forth.

No. 18,692. Machine for Making Twine, Cordage, &c. (*Machine pour Fabriquer la Ficelle, le Cordage, &c.*)

George L. Brownell, Worcester, Mass., U. S., 16th February, 1884; 5 years.

Claim.—1st. The revolving frame A, divided into two compartments B, B, and provided with the vertical shafts F, F, having scored cones G, G, gear wheels E, E and H, H, in combination with the central tube C having scored pulley D and cog gearing E, and the gear I and plate P, substantially as and for the purpose specified. 2nd. The revolving frame journaled in the main frame A of the machine, and divided into an upper and lower compartment B, B, in combination with the mechanism for drawing off and stretching the cord located in the lower compartment B, and the device for winding the same located in the upper compartment B, substantially as and for the purpose specified. 3rd. The tube C provided with the cog spindle L and the mechanism for drawing off, stretching and winding the cord, substantially as and for the purpose specified. 4th. The revolving frame divided into two compartments B, B, and having its main frame A, tube C, spindle L and compressor M, substantially as shown and for the purpose specified. 5th. The central spindle L, in combination with the disk d and laying block f, and arranged within the tube C having scored pulley D and cog gear E, in combination with the cog gears F, E, H, H and I, I, shafts J, J, compressor M, A, substantially as and for the purpose specified. 6th. The combination provided with the holes i, i, screws h, h and pin i, in combination with the studs G, G, laying block f and mechanism for drawing off, stretching and winding the cord, substantially as and for the purpose set forth. 7th. The plate P provided with the cogs q and the cog wheels O, O, leather washers m, m and s, s, steel washers n, n and clamping nuts p, p, substantially as and for the purpose specified. 8th. The plate P provided with the cog q and the reel N, in combination with the revolving frame divided into two compartments B, B, shafts J, J, cog wheels O, O, main frame A and mechanism for revolving said shafts J, J, to effect the drawing off and stretching the cord, substantially as specified. 9th. The hollow spindle L provided with holes c of a number to suit the number of thread mechanism for drawing off, stretching and winding the cord, substantially as and for the purpose specified. 10th. The hollow spindle L arranged within the tube C and provided with holes c, and circular laying block f, all substantially for the purpose specified. 11th. The shafts J, J, provided with the scored cones K, K, in combination with the mechanism for drawing off and winding the cord, substantially as and for the purpose specified.

No. 18,693. Railway Car Axle Journal Lubricator and Journal Box Case. (*Graisneur de Fusée d'Essieu de Char de Chemin de Fer et Boîte à Graisse.*)

Giles F. Gear, Cleveland, Ohio, U. S., 16th February, 1884; 5 years.

Claim.—1st. In journals for railway car axles, the ring E secured to the end of the journal of said axle bar A, angular boss interposed between the said bar and ring, slotted arms secured between the ring

and bar by pins inserted in the slots of the arms that they may have a free radial movement, and said arms having one end G pointed and the opposite end provided with a brush, in combination with the journal and journal box, substantially as described and for the purpose set forth. 2nd. In journal brasses or boxes for railway car axles, a journal box having along the inner sides thereof a groove m and oil passages leading from the outside of the box to the said grooves respectively, for conducting the oil to the journal, in combination with the revolving radial arms and brushes attached to the said arms, substantially as herein described and for the purpose specified. 3rd. The semi-circular guard 1 and guard 2 arranged in relation to, and in combination with the revolving radial movable arms and their terminal brushes, substantially as described and for the purpose set forth. 4th. In railway car axle journal and axle boxes, the combination therewith of the ring F, bar H and angular boss interposed between the said bar and ring, slotted revolving radial movable arms with their terminal brushes and pointed ends, guard rings, oil reservoir and journal box provided with a groove along each of its inner edges, and oil passage extending from the outer side of the said journal box to the said grooves respectively, and case inclosing the lubricating mechanism, constructed and arranged to operate in the manner substantially as described and for the purpose specified. 6th. In combination with a railway car axle journal, a journal box or brass having, along in its two inner longitudinal edges, a groove and oil passages extending from the outside of the journal box to the said grooves respectively, for conducting oil thereto, in the manner substantially as described and for the purpose specified. 6th. In combination with the journal B and journal box case, the dust guard consisting of the plates q and q1, interposed between which is a packing of asbestos, or other suitable material, and springs l, l, whereby the said guard is retained in place, substantially as described and for the purpose specified. 7th. In journal box cases for railway car axles, the door P having in the lower edge a groove adapted to fit the lower edge of the doorway of the case, and along the inner edge of the said door, cleats arranged to fit in between the sides of the doorway and provided with hinge ears C1, C1, and an intermediate cam D1, in combination with the axial bolt passing through said ears and through the slotted holes a1, in the ears R and S, substantially as herein described and for the purpose set forth. 8th. In journal box cases for railway car axles, a cam secured to the axial bolt A11 and provided with a supporting arm and a lifting arm c1, a check and locking arm d1 constructed and arranged between the hinge ears of the door of the case, in combination with said door and journal box case, substantially as described and for the purpose set forth. 9th. In journal box cases, the combination of the door P, constructed as herein described and hinged to the case by an axial bolt passing through the hinge ears of the door, and through the slotted ears R, S, and having secured thereon a cam provided with a supporting arm, a lifting arm and check locking arm d1, case and handle B1, substantially as described and for the purpose specified. 10th. In a case for enclosing the journal and journal box of a railway car axle, a case having the door thereof provided with a groove along its lower edge, and adapted to fit so as to embrace transversely the lower edge of the doorway of the case, forming a tongue and groove connection of the two parts, substantially as herein described and for the purpose set forth. 11th. In combination with the handle B1 provided with a boss, a button R1 adapted to engage said boss, in the manner as set forth and for the purpose specified.

No. 18,694. Process for Bleaching and Apparatus Therefor, part of such Process being also Applicable to Finishing. (*Procédé de Blanchiment en parti applicable à l'apprêt, et appareil pour cet objet.*)

Jacob B. Thompson, New Cross, Eng., 16th February, 1884; 5 years.

Claim.—1st. The herein described process for bleaching vegetable fibre, threads and fabrics, the same consisting in, first, boiling them in a solution of cyanide of potassium or sodium, then subjecting them to alternate baths of a solution of chloride of lime and of carbonic acid in a closed vessel, and lastly passing them through a solution of triethybroseaniline and oxalic acid with suitable washings, all substantially as described. 2nd. An apparatus for bleaching linen and cotton, or other vegetable fibres or fabrics, composed of the tanks A and B for the bleaching liquor, the bleaching vessel C, the gas holder D, the pipe e connecting vessels A and C, the pipe g connecting vessel C and holder D, discharge pipes c and k from the vessel C, and a pump j, for transferring the liquid from vessel B to vessel A, substantially as shown and described. 3rd. In the process of "Finishing," the use of a solution composed of triethybroseaniline and oxalic acid, for the purpose of tinting the starch.

No. 18,695. Universal Lubricator. (*Graisneur Universel.*)

James Potter, Chicago, Ill., U. S., 16th February, 1884; 5 years.

Claim.—1st. A universal lubricator, in combination with a wick or its equivalent, to convey the required amount of lubricant from a supply chamber to the surface to be lubricated, all for the purpose described and set forth. 2nd. In a lubricator, the combination of the reservoir a, the receiver b, the blanks d provided with flanges d1 and shoulders d2 and d3, the feed slide e provided with teeth e1, the thumb piece e2, the springs f, with a wick o, all for the purpose described and set forth. 3rd. In a lubricator, the combination of the reservoir a, the receiver b, the blanks d provided with flanges d1, the springs h, the rod i, the cams j, the clamp k, the cover l, arranged as specified, with clamps m provided lip m2, all for the purpose described and set forth. 4th. In a lubricator, the reservoir a, the receiver b provided with a handle q, the indentation n, in combination with clamps m and flange m1, the openings m4 and wick o, the whole operated as described and set forth. 5th. In a lubricator, the wick o provided with loop p, the points p1, in combination with clamps m provided with indentation m3, all for the purpose described and set forth. 6th. In a lubricator, the clamps m provided with V-shaped passages arranged as specified, and openings m5, in combination with a wick o, all for the purpose described and set forth.