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INVENTIONS PATENTED.

No. 14,308. Improvement in Egg and Fruit Carriers. (*Perfectionnement des appareils à transporter les œufs et les fruits.*)

John J. McIntire, Oakland, Cal., U.S., 3rd March, 1882; for 5 years.
Claim.—1st. In combination with the strips A having slits to receive the cross strips C, the narrow locking strips adapted to pass through the perforations of both the strips A and C and hold such strips in place. 2nd. In combination with the strips A having slits extending for nearly its width, the strip C with narrow slits at the point where it intersects with the strips A, and the locking strip D passed through both strips at their intersection and extending alternately on opposite sides of the strip A.

No. 14,309. Gang Plough. (*Charrue à socs multiples.*)

Christopher Grattan, Stockton, Cal., U.S., 3rd March, 1882; for 5 years.
Claim.—1st. A gang plough consisting of the diverging plough frames or beams A with the opposing series of right and left ploughs secured to the two beams respectively, said frame being jointed or hinged at D, in combination with the wheels F P, arm S, whereby the front, centre and rear of the machine are supported independently. 2nd. The diverging jointed plough frame *a b* with its oppositely placed plough and the wheels F P S, in combination with the levers J R T with their retaining racks, whereby the front, centre and rear of the plough frame may be elevated or depressed. 3rd. The V-shaped plough frame *a b* jointed at D and having its forward portion supported upon the wheels F P, and the rear portion provided with the wheels S, in combination with the lever T, and rack K, whereby the rear portion of the frame *b* with its wheels S may be elevated from the ground.

No. 14,310. Improvements on Steam Traps. (*Perfectionnements aux trappes de vapeur.*)

John Ponder, New Orleans, La., U.S., 3rd March, 1882; for 5 years.
Claim.—1st. In combination with the trunnions R R, pipes S S, vessel T and weighted lever, a railway V over which operates a metal ball. 2nd. The tank C provided with pipes X O P, the pipe O connected with pipe F having a valve *g*. 3rd. In a steam trap, tank C, pipes X O P F and valves *z g g*. 4th. In combination with tank C and its supply and discharge pipes and valves, the lever *u*, pipes S S, vessel T and trunnions R R.

No. 14,311. Improvements on Carriage Bows. (*Perfectionnements aux branches des soufflets de voitures.*)

Henry E. Willson and Winslow L. Fay, Elyria, Ohio, U.S., 3rd March, 1882; for 5 years.
Claim.—1st. The shank *a*, the metallic side pieces *cc* welded thereto, and filler *d*. 2nd. The combination of the grooved filler *d* with the metallic strips *b*, for fastening the covering to a carriage bow.

No. 14,312. Medicinal Compound Called "White Oil." (*Composé médicinal dit "huile blanche."*)

Charles E. Williams, Wingham, Ont., 3rd March, 1882; for 5 years.
Claim.—A compound of liquor ammonia, seal oil, oil origanum, turpentine and methylated spirits.

No. 14,313. Improvements on Flower Stands. (*Perfectionnements aux jardinières.*)

Caroline A. Storey, Halifax, N.S., 3rd March, 1882; for 5 years.
Claim.—1st. The arrangement and combination of the shelves *g g' g''*, having the pot holes *t*, with the pan *c* having a central opening *d* sleeve *e* fixed to the bottom of the pan *c* around said opening and the tap *j*. 2nd. The flower stand bracket composed of the shelves *g g' g''* with their pot holes *f f' f''*, pan *c*, sleeve *e* and tap *j*, in combination with a stock composed of the claws *a* and pivot *b*. 3rd. The combination of a flower stand bracket having the shelves *g g' g''*, and pan *c* arranged as shown with the rod *h* passing through the central openings in the pan *c*, and the top shelf *g''*.

No. 14,314. Machine for Bundling Kindling Wood. (*Machine pour fagoter le menu bois.*)

William A. Allen, Jersey City, N. J., U.S., 3rd March, 1882; for 5 years.
Claim.—1st. The combination of the driving shaft F, the loose driving pulley G having clutch teeth H, the double clutch I adapted to be moved in either direction to engage with clutch H, the clutch lever J having roller N, the hand lever K, the pinion E, wheel D, double cam M, lever P having roller O and push plate V, whereby the machine can be readily thrown into and out of gear. 2nd. The combination, with the vertically slotted form or holder X, of the curved and slotted follower Y, and the push plate V and suitable mechanism for operating said parts. 3rd. The combination, with the form or holder X, and the cam M connected with the large gear wheel D, of the lever P, the sliding shaft T, spring W, and the push plate V, whereby the said push plate will be moved forward to push the bundle of wood from the form or holder by the revolution of the said gear wheel.

No. 14,315. Machine for Sawing Kindling Wood. (*Machine pour scier le bois menu.*)

William A. Allen, Jersey City, N. J., U.S., 3rd March, 1882; for 5 years.
Claim.—The combination, with the table B and the set of parallel saws D, of the guard plate *c* of a width about equal to the diameter of the saws and arranged directly over the said saws, and the holding springs *d* having one end secured to the underside of the forward edge of the said guard, and the free ends inclined downward and extending a little beyond the rear edge of the said guard.

No. 14,316. Improvements on Injectors. (*Perfectionnements aux injecteurs.*)

Louis Shutte, Philadelphia, Pa., U.S., 3rd March, 1882; for 5 years.
Claim.—1st. In a duplex injector, the combination of two separate steam inlet valves, and a loose bar or lever connecting said valves, all inclosed within the injector, and an operating device located on the outside of the injector, and united with the device connecting the valves. 2nd. The combination of two steam admission valves, a loose bar or lever forming a direct connection between said valves and starting valve and a rigid direct connection between the starting valve, and the bar which connects the steam valves. 3rd. The injector consisting of two parts, one discharging into the other, steam valves controlling said parts and connected by a loose bar, a starting valve, and an operating lever connected by rods or links directly with the starting valve and with the loose connecting bar. 4th. An operating lever pivoted to a jointed support and provided with eccentric lugs, and links encircling said lugs and connected directly with the starting valve, and operating stem of the steam valves.

No. 14,317. Improvements in the Method of Manufacturing Alumina. (*Perfectionnements dans la fabrication de l'alumine.*)

James Webster, Solihull, Eng., 3rd March, 1882; for 5 years.
Claim.—1st. In extracting the chief portion of the sulphur, hydrochloric acid, and other impurities from the compound whole in a