

No. 25,316. Process for Producing Lithographic or Zincographic Copies of Photographs, etc. (*Procédé de Reproduction Lithographique ou Zincographique des Photographies, etc.*)

Mary Walker, George E. Walker and Jean B. G. Bonnaud, London, Eng., 10th November, 1886; 5 years.

Claim.—1st. The herein-described process for producing copies of photograph or other designs, that is to say, covering the original with a coating of composition forming a ground for drawing, drawing thereon, transferring the coating to stone or zinc or other suitable plate and printing therefrom lithographically. 2nd. The preparation and use of a composition consisting of water, dextrine, and starch, with knollin or other equivalent grouting substance to form a coating for a photograph or other design on which original can be copied, substantially as herein described. 3rd. For giving special grain or texture to printed copies, the method herein described of impressing the original with its coating on a grained stone or plate.

No. 25,317. Car for Removing Snow from Railroad Cuts and Yards. (*Char pour Enlever la Neige des Tranchées et des Cours de Chemins de Fer.*)

Joseph Woolley, Rutland, Vt., U.S., 10th November, 1886; 5 years.

Claim.—1st. The combination of a car, with hinged sides, as 1, 2, 3, etc., fastened by means of the straps 9, for the purpose set forth. 2nd. In combination, with the car, the riser 14 with the cutting sides 13, and brace 21 and the seat screw 22 for raising or lowering the riser 14.

No. 25,318. Pot Cover. (*Couvercle de Chaudron.*)

William C. Nyo, Bradford, Penn., U.S., 10th November, 1886; 5 years.

Claim.—1st. An expansible pot cover provided with a detachable handle, substantially as shown. 2nd. An expansible pot cover, provided with caps or washers A holding device J, and a detachable handle which is applied to the cover, substantially as described. 3rd. The combination of an expansible cover, a holding loop or device, and a detachable spring handle which is applied to the cover, substantially as set forth. 4th. An expansible cover and the washers applied to opposite sides, in combination with a looped holding device, the spring handle provided with a projection at its centre to pass through the loop, and the caps applied to the cover to receive the ends of the handle, substantially as specified. 5th. An expansible pot cover made from any suitable material and which is provided with a handle or handles, whereby the cover can be expanded or contracted at will, substantially as shown and described.

No. 25,319. Machine for Holding Chalk for Billiard Tables. (*Porte-Craie pour Tables de Billard.*)

Michael J. Kew, Brantford, Ont., 10th November, 1886; 5 years.

Claim.—A chalk-holder to be used in connection with billiard tables, composed of a semi-circular flat piece of wood A plated at the bottom pulley B, circular steel rod C cord E, wooden ball F, steel wire G, combined with coil springs and clasps, rubber washer H, chalk I, all arranged and combined as shown.

No. 25,320. Appliance for Removing Snow from Railway Tracks. (*Appareil pour Enlever la Neige des Voies de Fer.*)

Wilson Morningstar, Grantham, Ont., 10th November, 1886; 5 years.

Claim.—The knives B, B, B, in combination with framework A having inclined plane C and plough D, substantially as described and for the purpose hereinbefore set forth.

No. 25,321. Injector. (*Injecteur.*)

Paul Schneider, Henry Trenkamp and Nicolas Flammang, Cleveland, Ohio, U.S., 10th November, 1886; 5 years.

Claim.—1st. The combination of the valve C, provided with a loop or opening in its stem, with the valve stem H having a valve formed on its inner end to control the passage of steam, and provided with a cam, the stem H being made to pass through the loop, substantially as shown. 2nd. The combination of the stem H, provided with a stop F, the cam E, and the valve C with the valve G having a loop or opening J in stem, substantially as described. 3rd. In an injector, the combination of the force tube K, with the endwise moving force tube Q, made in two parts, so as to be adjustable in length and which is provided with the two valves R, substantially as set forth. 4th. In an injector, the combination of the force tube K, with the force tube Q which passes through the chamber S, and is provided with perforations for the escape of the water from the tube into the body of injector, for the purpose of relieving the pressure of water in the tube Q, substantially as specified. 5th. In an injector, the combination of the water passage O, the lift tubes M, N, the force tubes K, Q, chambers W, S, overflow water passage Z and the two valves G, H, substantially as shown. 6th. In an injector, the combination of the water passage lift tubes, the stationary and endwise moving force tubes, the chambers W, S, the waste valve H, and the overflow, whereby a constant flow of water can be kept up through the injector without its being forced into the boiler, substantially as described. 7th. In an injector, the combination of the stationary force tube, the water passage, the lift tubes, the two chambers W, S, the endwise moving force tube provided with the valves R, and the inside counter pressure relief chamber and perforations U with the waste valve and overflow, substantially as set forth. 8th. In an injector, the combination of the water passage, the stationary force tube, the lift

tubes and the chambers W, S, with the endwise moving force tube provided with the two valves R, and the ribs X, and the screw plug upon which the ribs rest and support the tube, substantially as specified. 9th. In an injector, a force tube, composed of two or more parts which are adjustable one upon the other, substantially as shown. 10th. In an injector, a force tube, which is composed of two or more parts, the outer ones of which are adjustable upon each other, and which are provided with valves, substantially as described. 11th. In an injector, a force tube composed of two or more parts, which are adjustable one upon the other, and which are provided with perforations, substantially as set forth. 12th. The combination, with an injector of nuts J, provided with the slots K, the pipe L, provided with the projections O, the pipe having an enlarged head on its inner end and which forms a tight joint with one of the inlets, substantially as specified.

No. 25,322. Sleigh Shoe. (*Patin de Traineau.*)

Isaac B. Seeley, Philadelphia, Penn., U.S., 11th November, 1886; 5 years.

Claim.—1st. A detachable shoe for a sleigh runner, formed of wood and provided with means for connecting the same with the runner, said shoe, when removed from the runner, leaving the latter intact, substantially as described. 2nd. A shoe for a sleigh runner, formed of wood and having means for connecting the same with the runner, consisting of a yoke, a cross-head and a screw, substantially as described.

No. 25,323. Mowing Machine. (*Faucheuse.*)

Albert L. Quilliam, Chateauguay, N. Y., U.S., 11th November, 1886; 5 years.

Claim.—1st. The double sickle bar herein described the parts of which are reciprocated in opposite directions, as set forth. 2nd. A sickle bar having knives bevelled on the underside, as set forth. 3rd. A guard finger for sickle bars formed of a single piece of material, as set forth. 4th. A guard finger for sickle bars formed of a single piece of material and provided with lugs e, as set forth. 5th. The combination of the sickle bars with the connecting rods K, K, the shaft G and the cam and the wrist wheel thereon, as set forth. 6th. The combination of the sickle bars, guard fingers, connecting rods formed with joints a, and the jointed frames A and B, as set forth.

No. 25,324. Combined Heater and Fan Blower. (*Calorifère et Eventoir Combinés.*)

Miles C. Huyett, Detroit, Mich., U.S., 11th November, 1886; 5 years.

Claim.—1st. The combination, with a radiator, of an enclosing case constructed to admit air to the interior, a fan communicating with the interior of the case, and a housing or wall surrounding said case, leaving an air space between it and the housing, said housing constructed to admit air into the air space, and to permit its circulation partially about said case, and give it entrance into the interior of said case, so as to pass through the radiator, substantially as described. 2nd. The combination, with a radiator having an enclosing case constructed to admit air to the interior, of an exterior housing or wall forming an air space between it and said case, air inlets to said air space, and a fan for moving the air through the radiator, the construction being such that the air entering the air-space will circulate partially around the exterior of the radiator, case, entering the same and being moved through the radiator, by the fan, substantially as described. 3rd. The combination, with a radiator having a condensing chamber in connection therewith and a case constructed to admit air to the interior and to emit it therefrom, of an enclosing wall or housing forming an air space between it and said case, air inlets to said air space and a fan to move the air through the condensing chamber and radiator, substantially as described.

No. 25,325. Machinery for Cultivating Land.

(*Instrument d'Agriculture.*)

Frank Proctor, Stevens, Eng., November, 1886; 5 years.

Claim.—1st. A cultivating machine consisting of a steam engine or driving crank shaft a, and crank b, bars c pivoted to links d turning upon fixed cross-bar e, in combination with the angle iron frames f, holding the loose forks or tines g, the bars p and bolts r, and hinged s to the bars c, so that they can be turned up or down and retained by springs u. 2nd. The reversible fork or tine consisting of flat plate t upon bar m, having a narrow bent edge, as described and shown in figures 3, 4, 5, and 6.

No. 25,326. Wick Carrier. (*Porte-Mèche.*)

Jacob Barnett, Jr., Cincinnati, Ohio, U.S., 11th November, 1886; 5 years.

Claim.—1st. A wick-carrier provided with an expander made in sections, and extending within the carrier, substantially as described. 2nd. A wick-carrier provided with an expander made in sections extending within the carrier, and hinged to the bottom of the same, substantially as described. 3rd. A wick-carrier having a sectional expander hinged to, and extending within the same, and provided with a roughened holding surface, substantially as described.

No. 25,327. Apparatus for Utilizing the Current Force of Flowing Water. (*Appareil pour Utiliser les Cours d'Eau.*)

Edwin L. Brady, Stamford, Conn., U.S., 11th November, 1886; 5 years.

Claim.—1st. The combination of a water power mechanism, a floating support therefor, anchored or otherwise secured in the stream, a dynamo-electric machine mounted on said floating support