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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 19,272. Hand Broadcast Seed Sower.

(*Semoir à la Volée à Main.*)

Amos E. Shrock, Joseph Leman and Louis M. Emond, Goshen, Ind., U.S., 5th May, 1884; 5 years.

Claim.—1st. In a hand broadcast seed sower, the metallic guide bar G, secured transversely on the pivot bar H, and having its ends turned upwards, and the openings h formed in them, substantially as shown and for the purpose set forth. 2nd. In a hand broadcast seed sower, the vibrating feed plate C having the raised edge i, substantially as herein shown and described.

No. 19,273. Fly Book. (*Livret à Mouches de Pêche.*)

Thomas B. Mills, New York, (Assignee of C. G. Levison, Brooklyn, N.Y., U.S., 5th May, 1884; 5 years.

Claim.—1st. The combination, with the leaf of a fly-book having books or clips at one end, and elastic or spring retainers at the other end, of eye guides for the several retainers, each attached to the leaf and receiving a retainer through it, substantially as herein described. 2nd. The combination, with the leaf, of elastic or spring retainers on opposite sides thereof, and an eye-guide consisting of a tube or ring inserted through the leaf, and receiving the two said retainers through its portions which are presented on opposite sides of the leaf, substantially as herein described. 3rd. The combination, with the leaf A, having books or clips a at one end, of retainers, each consisting of the spring D and attached cord D2, and a pulley f around which said cord passes, substantially as herein described.

No. 19,274. Vaginal Syringe.

(*Seringue Vaginale.*)

James A. Hawley and Lorenzo C. Hall, Canandaigua, N.Y., U.S., 5th May, 1884; 5 years.

Claim.—1st. The improved vaginal syringe, hereinbefore described, inclosing an ordinary speculum or vaginal tube is fitted with a plug inclosing two pipes of suitable lengths, in combination with compressible and expandible induction and eduction bulbs, whereby water may be injected and forcibly withdrawn as rapidly as injected, substantially as set forth. 2nd. The combination, with a speculum or vaginal tube, of the plug b fitted to the inner end of the speculum, the inflexible pipes h, h1, having their inner ends inclosed by, and flush with, the inner face of the plug b, and having their opposite ends projected out of the opposite end of the speculum and around the pipes h, h1, and induction and eduction bulbs, whereby water may be injected and forcibly withdrawn as rapidly as injected, substantially as described.

No. 19,275. Feed Grinding Mill.

(*Moulin à Blé.*)

C. N. McLaughlin, Onatanna, (Co-inventor with D. J. Ames, Austin,) Minn., 5th May, 1884; 5 years.

Claim.—1st. The combination, with the runner bar D, provided with a semi-spherical cavity d, having lugs g, of the spindle E, having the rounded end and curved pin a and a1, adapted to fit into the semi-spherical cavity and between the lugs, whereby the runner being revolved by the pins and lugs is free to move in any direction

on the rounded head of the spindle, and the runner shaft not passing through the hopper, substantially as and for the purpose hereinbefore set forth. 2nd. The runner bar D, having fine cutting grooves at its outer edge, and a spiral conveyer F, at right angles thereto at its centre, said spiral conveyer being provided with tangential wings e, with deep cut tangential furrows e1 arranged between them, said furrows being sunk below the fine cutting groove to serve as reservoirs or chambers, to assist in conveying the grain to the grinding surface, substantially as and for the purpose hereinbefore set forth.

No. 19,276. Railway Frog.

(*Rail de Raccordement.*)

William J. Morden, Chicago, Ill., U.S., 7th May, 1884; 5 years.

Claim.—A solid frog point B, provided with a bearing projection a, adapted to rest on the flanges of the wing rails, said projection being formed integral with the point, and of one homogeneous mass of metal, substantially as shown and described and for the purpose set forth.

No. 19,277. Preparation of Petroleum, or Oleine and other Mineral Oils for Painting Purposes. (*Préparation du Pétrole, ou de l'Oleïne et autres Huiles Minérales pour la Peinture.*)

Donald A. Stewart, Toronto, Ont., 7th May, 1884; 5 years.

Claim.—The process of desiccating and deodorizing vegetable and mineral oils by mixing the same with, (a) sulphate of iron, (b) lime, chloride of lime or carbonate of lime, (c) bicarbonate of soda or silicate of soda or bicarbonate of potash, (d) liquid ammonia, (e) muriatic acid or glacial acid, and (f) carbolic acid, substantially as described.

No. 19,278. Process and Apparatus for Preparing Beer and other Fermented Liquids for the Market.

(*Procédé de Préparation de la Bière et autres Liqueurs Fermentées pour le Commerce.*)

Casper Pfaudler, Rochester, N.Y., U.S., 7th May, 1884; 5 years.

Claim.—1st. The process of preparing beer and other fermentable liquids for the market, which consists in holding such beer or other liquid during fermentation under a controllable hydrostatic pressure, and carrying off the barn which rises from the fermenting mass by a current of liquid, substantially as set forth. 2nd. The combination, substantially as hereinbefore described, with a fermenting cask or vessel, of a pipe filled with water or other liquid, for holding the liquid in the cask under a hydrostatic pressure, the regulator for controlling this pressure, and the spout f, for passing a current of liquid through the hydrostatic pipe and the regulator. 3rd. The combination, substantially as hereinbefore described, with a series of fermenting casks or vessels, a series of hydrostatic pipes, one for each cask, and the regulator for controlling the pressure in the hydrostatic pipes and in the cask. 4th. The combination, substantially as hereinbefore described, with a series of fermenting casks or vessels, a series of hydrostatic pipes, one for each cask, the regulator for controlling the pressure, and the spouts f, one for each of the hydrostatic pipes. 5th. The combination, substantially as described, with two series of fermenting casks or vessels A, A1, A2, of a series of hydrostatic pipes a, a1, one for each cask, the regulator B connected to all the hydrostatic pipes by a pipe b, the water supply pipes E, F and spouts f, connected to the hydrostatic pipes a, and the water supply pipes E, F and spouts f1, connected to the hydrostatic pipes a1.

No. 19,279. Process for Filtering and Decolorizing Sugar-Liquors, Syrups and Saccharine Juices.

(*Procédé pour Filtrer et Décolorer les Liqueurs de Sucre, Sirops et Jus Saccharins.*)

Fritz Kleeman, Schoemingen, Germany, 7th May, 1884; 5 years.