

No. 5701. Manufacture of Glucose.*(Fabrication de la glucose.)*

Samuel H. Johnson, Stratford, Eng., 3rd March, 1876, for 5 years.

Claim.—1st. The treatment of grain in a permeable condition with dilute acids or in conjunction with alkalies thereby removing fuel oil and nitrogenous substances; 2nd. The treatment of grain in a permeable condition by combining with it such an amount of acid as is necessary to effect its transformation into glucose; 3rd. The treatment of acidified grain in a permeable condition by causing steam to permeate the interspaces between the grains; 4th. The construction and use of connecting apparatus; 5th. The process of manufacturing glucose.

No. 5702. Apparatus for Generating Gas for Heating Purposes.*(Appareil à produire le gaz pour le chauffage.)*

William G. Wood, Ingersoll, Ont., 3rd March, 1876, for 5 years.

Claim.—1st. The retort A; 2nd. The combination of retort A, with steam pipe C, hydro-carbon pipe E, and cold air pipe F; 3rd. The combination of steam pipe C, and cold air pipe E, with the retort A; 4th. A method of generating a highly inflammable gas in the introduction of a steam of hydro-carbon, steam and cold air in a retort.

No. 5703. Oat-Meal Cutter. (Hache-grauu d'avoine.)

Ferdinand Schumacher, (Assignee of W. Heston,) Akron, Ohio, U. S., 3rd March, 1876, for 5 years.

Claim.—1st. The bars D, applied in relation to the plate G, and knives C; 2nd. The combination of the bars D, with the knives C, and plate G.

No. 5704. Fish Extract. (Extrait de poisson.)

Stephen L. Goodale, Saco, Me., U. S., 3rd March, 1876, for 5 years.

Claim.—1st. The use of the juices of fish for production of food extract; 2nd. The new article of food described composed of a concentrated extract of fish.

No. 5705. Oat-meal Cutter.*(Hache-grauu d'avoine.)*

Ferdinand Schumacher, (Assignee of H. Kruse), Akron, Ohio, U. S., 3rd March, 1876, for 5 years.

Claim.—The bevelled knives D, D, applied in relation to the plate C, serving both to cut the grain and as a gauge to regulate the size of the particles of meal.

No. 5706. Boat Detaching Device.*(Appareil à détacher les bateaux.)*

Robert McMaugh and Archibald McMaugh, St. Catharines, Ont., 3rd March, 1876, for 5 years.

Claim.—1st. A shackle or clasp consisting of two curved fingers A, hinged conjointly in a swivel head B, their lower points to impinge in combination with a pivotal bar C, transversely thereto, held by a releasing locking mechanism; 2nd. A mechanism for locking the fingers A, consisting of a bifurcated bar C, provided with a spring D, having a pin E, to engage with a hole in one of the fingers A; 3rd. A mechanism for unlocking the fingers A, provided with a bifurcated bar C, spring D, and pin E, consisting of the cam lever F, rotary on the end of the bar C and engaging with the under side of the spring D; 4th. A mechanism for double locking the fingers A, when locked, consisting of the cam lever F, grooved in the side face of the cam and an engaging lug H, projecting from the finger A, and locking by the rotary motion of the cam on the end of the bar C.

No. 5707. Hot Air Furnace.*(Calorifère à air chaud.)*

John B. Pierce, Buffalo, N. Y., U. S., 7th March, 1876, for 5 years.

Claim.—1st. The combination of the hot air furnace and two connected radiators respectively arranged above and below the smoke exit of the furnace, the gases escaping from such smoke exit passing into the upper radiator through which they circulate, and from which they are conducted into the lower radiator at one end to escape into a branch smoke exit at the other end; 2nd. The radiators B, C, provided with the partitions b, and valve c, combined with the pipes J, and P, and made removable; 3rd. The radiator C, provided with a partition b, and gravitating weighted valve c, in combination with the hot air furnace A.

No. 5708. Air-tight Screw Cap for Coal Oil and other cans and Fruit Jars, and Machine for Manufacturing the same.*(Bouchon en vis hermétique pour les bidons à pétrole et autres et les pots à fruits, et machine pour les fabriquer.)*

John H. Stone, Hamilton, Ont., 8th March, 1876, (Extension of Patent No. 843), for 5 years.

Claim.—1st. The male and female screw caps plate I, of tin or other metal; 2nd. The arrangement and combination of a screw cap press I, horizontal or perpendicular for making tin or sheet metal screw caps consisting of the spindle A, cutters B, B, collars c, o, dies C, C; 3rd. The combination of the pinions E, E, e, e, and screws f, i, for opening the dies C, C; 4th. A movable or adjustable die and tap attached to a lathe for making tin or sheet metal screw caps.

No. 5709. Hand-loom. (Métier à bras.)

Samuel H. Powers, Woodstock, N. B., 10th March, 1876, for 5 years.

Claim.—1st. The foot beam F, having connection with the lathe bar C, for beating up the filling without actuating the shuttle; 2nd. The mechanism for holding the treadles in place on the forward motion of the lathe D,

consisting of the treadles f, actuating the harness i, catches z, to hold harness i, place, ratchet wheel z, fastened to shaft o, following the rotary motion when actuated by rod n, in the forward motion of the lathe parts p, secured to post A, to hold the shaft O, at any desired point to open the harness where by while the harness remains in place the lathe may be actuated any number of times.

No. 5770. Machine for Rocking Cradles.*(Machine à bercer les berceaux.)*

Charles Barlow, Cookshire, Que., 11th March, 1876, for 5 years.

Claim.—The cam plate A, with the straight and circular grooves B, and C, and the slotted crank E, the roller and pin b, with the sweep F, the disc T, with the pins M, and N, also the lever H, all combined.

No. 5771. Heat Radiator. (Radiateur de chaleur.)

Emerson C. Angell, New York, U. S., 11th March, 1876, for 5 years.

Claim.—1st. The combination with the tubes A, J, of tubes M, rising from a continuously open draft flue B, F, that has a valve near each end provided with valves N, just above said flue, and above these valves connected by cross pipes, so that all the flues M, will empty into a continuous tube, being thus easily cleaned, and a direct or indirect draft being had as wanted; 2nd. The employment of the scrapers Q, or analogous devices for the cleaning of the flues B.

No. 5772. Furnace for Roasting Ores containing the Noble Metals.*(Fourneau à griller les minerais contenant les métaux précieux.)*

Robert M. Fryer, New York, U. S., 11th March, 1876, for 5 years.

Claim.—The furnace A, cone L, and bottom H.

No. 5773. Waggon Axle Nut.*(Noix d'essieu de waggon.)*

Thomas C. Stewart, Hamilton, Ont., 11th March, 1876, for 5 years.

Claim.—1st. In combination with the iron axle B, the L-shaped grooves E, E, for receiving the projections J, J, and catch bar F, on the nut D, for locking the nut on the axle; 2nd. In combination with the axle B, the cap or nut D, provided with projections J, J, and catch bar F, in the recesses a, and operated by the spiral spring I; 3rd. The locking of the cap or nut D, on the axle B, by means of grooves, projections and spring catch bolt.

No. 5774. Horse-power Sawing Machine.*(Scièrie force cheval.)*

Tobias B. Fox, St. Vincent, Ont., 11th March, 1876, for 5 years.

Claim.—1st. The saw guide N, composed of two braces O, the two stays Q, to steady and straighten it, and of the crutch P, to keep the log saw G, from jerking when sawing in combination with the feeder L; 2nd. The feeder L, guiding the saw guide N, in combination with the uprights H; 3rd. The arrangement comprising the yoke with spikes X, the chain Y, and the hand lever Z, in combination with the feeder L; 4th. The slanting stop T, of the bunk Q, in combination with the truck O, 5th. The log head to the log post K, in combination with the log wheels I, 6th. The combination of the jack A, the worm screw C, the pinion D, the foot lever J, the tumbling rod E, the gig lever M, and the log post L, with the log wheels I, the truck O, and the track N, to gig properly the logs to be sawn; 7th. The combination of the balance wheel B, the pitman C, the crutched pitman D, the saw pitman F, the head block I, the hand lever K, and the log saw G, with the main frame A; 8th. The combination of the coupling bar U, and coupling pin V, of the track N, with the main frame A, for the purpose of keeping the log saw G, from breaking its teeth thereon.

No. 5775. Improvements in Wooden Pumps.*(Perfectionnements dans les pompes en bois.)*

Joshua W. Frazee, Toronto, Ont., 11th March, 1876, for 5 years.

Claim.—A porcelain lined cylinder A, held within the stock B, by means of the tapered spurs c, or thread c.

No. 5776. Labelling Machine.*(Machine à étiqueter.)*

Jonathan Higelow, Boston, Mass., U. S., 11th March, 1876, for 5 years.

Claim.—1st. The combination of the paste trough I, paste roll J, belt levers M, and arms N, with the label holder G, and paste apparatus D, arranged in such manner that the weight and velocity of the can being labelled shall operate the same so as to apply a long or overlapping label; 2nd. The combination of the bent levers M, arms N, and roll or post R with the ratchet wheel S, screw shaft T, and label holder G, arranged in such manner that the weight and velocity of the can being labelled shall cause the label holder to rise.

No. 5777. Horse-rake. (Râteau à cheval.)

Alexander Howell, (Assignee of W. Green), Brantford, Ont., 11th March, 1876, for 5 years.

Claim.—1st. The levers F, fitted on and moving on hubs of wheels A, having slots G, and tapered holes I, 2nd. The double crank K, rods L, stir M, and foot lever N.

No. 5778. Improvements on Fences.*(Perfectionnements aux clôtures.)*

Alfred F. Allan, London, Ont., 11th March, 1876, for 5 years.

Claim.—1st. A portable fence constructed in separate panels by means of the standards A, and E, upper and lower boards B, B, and intermediate boards C, C, or wires D, D; 2nd. In combination with the above, the posts F, pins G, posts H, and braces I.