

**No. 7742. Machine for Painting Cylindrical Bodies.***(Machine pour peindre les objets cylindriques.)*

Charles T. Brandon, Toronto, Ont., 9th August, 1877, for 5 years.

*Claim.*—1st. The shaft D D provided with the alternately placed discs F, of regular or irregular widths and placed at regular or irregular distances apart; 2nd. In combination with the shafts D D provided with the alternately placed discs E, the adjustable tables G G and independent colour pans F; 3rd. The combination with the discs E of the colour scrapers K; 4th. The combination with the tables G G provided with the wedge blocks g, of the wedges I I and operating screws H H; 5th. The frame A, shafts D D with alternately arranged colour discs scrapers K, pans F and adjustable table, all combined and arranged to form a machine for painting cylindrical bodies such as broom handles, croquet pins, &c.

**No. 7743. Improvements on Hydrants.***(Perfectionnements aux bornes-fontaines.)*

William Todd and Sullivan C. Andrews, Portland, Maine, U.S., 9th August, 1877, for 5 years.

*Claim.*—1st. The combination with a main and service pipe of a hydrant, &c., of a sliding gate at the main and of a drain valve at the open vertical part of the connecting pipe, the gate and valve being operated simultaneously so that when one is closed the other is open, and vice versa; 2nd. The combination with the main pipe and connecting pipe having guide casing, of a sliding gate operated to open or close the main, by crank shaft and pivot rod connection with the post of the hydrant; 3rd. The combination of the post connecting rod and crank shaft having lug with the drain valve and operating bell crank lever.

**No. 7744. Improvements in Mowing Machines.***(Perfectionnements aux faucheuses.)*

William N. Whitely, Springfield, Mass., U.S., 9th August, 1877, for 15 years.

*Claim.*—1st. The combination of the differential and oscillating gear C C, for driving the cutters, the lifting lever F for elevating the cutting apparatus into an upright position, and the tilting lever H for elevating and depressing the points of the guard fingers; 2nd. The combination of two independent driving and supporting wheels with an adjustable frame M mounted between and carried by said wheels, the differential oscillating gear and the tilting apparatus for tilting the cutters; 3rd. The combination of two independent driving and supporting wheels and the adjustable frame M with the differential oscillating gear, for driving the cutters and the foot lever K and automatic lock K, device carrying the front of adjustable frame and cutting apparatus; 4th. The combination of the adjustable frame M slotted to permit the tilting of the cutting apparatus; 5th. The combination of the slotted adjustable frame M and main shoe carrying the cutting apparatus with the lever H, mounted upon the adjustable frame and connected to the rear of the shoe pin I to tilt or rock the guards up and down; 6th. The combination of the differential and oscillating gear for driving the cutters, the lifting lever F for lifting the cutting apparatus into an upright position, and the foot lever K for carrying the cutting apparatus and front of the adjustable frame M above the ground and the tilting device; 7th. The tilting device mounted upon the adjustable frame M and in the aperture of the driving arm D; 8th. The combination of the lifting lever and tilting lever, notched quadrant plates F; 9th. The connection of the driving arm to the differential oscillating gear by means of lugs C radiating from the centre of said oscillating gear; 10th. The combination of a cutting apparatus driven by differentially oscillating gearing and that can be operated, either in a horizontal or vertical position, while the machine is in motion, and at the same time capable of being tilted to point the guards up and down; 11th. The combination of the adjustable frame M, the hinged or jointed cutting apparatus A hinged or jointed to said adjustable frame; said hinged joint provided with suitable means for tilting or rocking the guards up and down, hinged pole and foot lever mounted upon said pole and connected to the adjustable frame in such manner that the operator can lift the front of said adjustable frame and carry the weight upon the pole; 12th. The combination of two driving and supporting wheels, the adjustable frame M, the differential oscillating gear for driving the knife, the lifting lever to turn the cutting apparatus into an upright position, the tilting apparatus for rocking the points of the guards up and down, and the foot lever to lift the front end of said adjustable frame with the cutting apparatus; 13th. The foot lever K and automatic locking device K, the lifting levers F H with automatic locking device connected to the adjustable frame M in such manner that the operator can lift either end of the cutting apparatus independently and simultaneously and carry the weight upon the pole; 14th. The sliding whiffletrees N and the draught rod O, connected to draw from the centre of the whiffletree pivot direct.

**No. 7745. Improvements on Floating Water Wheels and Pumps.***(Perfectionnements aux roues hydrauliques et aux pompes flottantes.)*

Claiborne Harris, Victoria, B.C., 9th August, 1877, for 5 years.

*Claim.*—1st. The combination of the floating raft, pontoon or boat A with either one or two undershot water wheels B, or any other kind of water wheel; 2nd. The combination of the floating raft, pontoon or boat A, the undershot water wheel or any other kind of water wheel B, the spur wheel C, the pinion D, crank E, connecting rod F, with the double-acting pump I having one or two suction pipes L L and the discharge pipe M or with two pumps.

**No. 7746. Stall for Carrying Horses at Sea.***(Stalle pour transporter les chevaux par mer.)*

James Arless, Montreal, Que., 9th August, 1877, (Extension of Patent No. 6856), for 5 years.

**No. 7747. Improvement on Brick Machines.***(Perfectionnements des machines à briques.)*

Daniel Davis, London, Ont., 11th August, 1877, (Extension of Patent No. 1591), for 5 years.

*Claim.*—The application of the press E in combination with the press bar Q, crank N, bevelled pinion L and large bevel wheel C in the application of roller O, in combination with levers P, crank K, in connection with long lever R, crank I and bevelled pinion M, and the manner in which crapper G forces the tempered and ground clay into press E.

**No. 7748. Sad Iron Heater.***(Chauffe-ferre de fers à repasser.)*

William H. Haylock, Jonesville, N.Y., U.S., 11th August, 1877, for 5 years.

*Claim.*—1st. The combination in a heater for sad irons, &c., with the burner and chimney C having seat Cr, of an interchangeable top B having angular corner pieces a; 2nd. The combination of the supporting arms A A and burners D with inverted conical lamp chimney C C and interchangeable top B resting by angular corner pieces on the chimney and arms and having side spaces for exit of heat; 3rd. The oil receptacle E having a box or casing F filled with a suitable non-conductor of heat, in combination with detachable wick tubes.

**No. 7749. Improvements on Syrups, Mineral Waters, &c.***(Perfectionnements aux sirops, eaux minérales, etc.)*

Horace L. Bowker, Boston, Mass., U.S., 11th August, 1877, for 5 years.

*Claim.*—The combination of saponin extracted from vegetable products with syrups, mineral waters, ciders, beers, ales, etc., or other liquids containing carbonic acid gas, whether natural or artificial.

**No. 7750. Machine for Addressing Newspapers.***(Machine à adresser les papiers-nouvelles.)*

Alexander Dick, Buffalo, N.Y., U.S., 11th August, 1877, for 5 years.

*Claim.*—1st. A mailing machine formed by the combination of the body A D and the inserted and attached parts, viz.: reel guage, web guides d d, web depressing roller C, paste roller O, paste check bearings and bracket wire H I, double wire paste regulator f, slideway M with springs r and brackets t, feeding roller R, belt B, propelling roller Z, handle X with pivoted double wire reel guard h h, pitman Y with thumb screw S, stamping outter K and fixed outter P, when the construction and combination of all the various parts singly and relatively are in the manner described; 2nd. The guage wires d d having the loops w w; 3rd. The combination of roller E having pivoted bearings with the paste roller O; 4th. The combination of paste check bearings and bracket wire H I; 5th. In combination with the paste roller O and slideway M the hinged double wire paste regulator f; 6th. In combination with the feeding roller R, the slideway M having the spring r and brackets t; 7th. The handle X having the pivoted double wire reel guard h h and the guide attachment F; 8th. In combination with the handle X and outter stamp K, the pitman Y with swivelled thumb screw S; 9th. In combination with the belt B feeding roller R and slideway M, the propelling wheel Z; 10th. In combination with the slideway M the feeding roller R; 11th. In combination with the stationary blade P, the stamping blade K having its eye to receive the attaching bolt formed by turning over a part of itself into the form of a tube; 12th. In combination with the cutters K and P and the socket v and the ear L, the nut u having the double function described.

**No. 7751. Improvements on Road Scrapers.***(Perfectionnements aux éboueurs de chemins.)*

David Clark, Windsor, Ont., (Assignee of A. Mayhee, Maybee, Mich., U.S.), 11th August, 1877, for 5 years.

*Claim.*—1st. The shoe A constructed with serrated cutting edges H; 2nd. The shoe A constructed with vertical cutting edges I and having a pivoted bale F provided with lower cutting edges J.

**No. 7752. Hay Elevating Device.***(Elevateur à foin.)*

George A. Dickson, Shortsville, N.Y., U.S., 11th August, 1877, for 5 years.

*Claim.*—1st. A pulley block A provided with pivoted hooked bars or arms C C, their upper ends connected together by a toggle joint D with or without a projecting central pin f; 2nd. The pulley block A provided with pulley B, pivoted hooked arms C C connected together by the toggle joint D, in combination with the pivoted lever E; 3rd. The spear-shaped catch G formed by the two hinged or pivoted bars G G having projecting shoulders g g, in combination with the pulley block A provided with pivoted hooked arms C C, toggle joint D and pivoted lever E; 4th. The spear-shaped catch G with hooked ends or projecting shoulders g g and provided with a haap J and recess h for holding the sling rope I, in combination with a pulley block A provided with pulley B, pivoted hooked arms C C, toggle joint D and pivoted lever E.

**No. 7753. Device for Converting Reciprocating into Rotary Motion.***(Appareil à convertir le mouvement de va-et-vient en mouvement rotatoire.)*

Absalon G. Smyth, Hamilton, Ont., and John Smyth, Brantford, Ont., 11th August, 1877, for 5 years.

*Claim.*—1st. One or more automatic locking devices constructed so as to allow a wheel to revolve on its axle in one direction only, in combination with two gear wheels when placed upon separate shafts, or their equivalents, so as to receive the rack N between said wheels and engage both for the purpose of converting reciprocating motion into rotary; 2nd. The rack N provided with cogs placed upon two sides facing opposite directions, in combination with one or more automatic locking devices constructed so as to allow a wheel to revolve on its axle in one direction only for the purpose of con-