

No. 7588. Oscillating Joint for Machinery.

(Joint oscillant de machinerie.)

Norton P. Otis, Yonkers, N.Y., U.S., 25th June, 1877, for 10 years.

Claim.—1st. A hinge joint pin E with a screw thread and a conical bearing at its end fitting into a corresponding seat, in combination with the moveable part of said joint having its bearing upon the body of the pin E. 2nd. An oscillating gear wheel A, combined with the joint pins E, having conical ends f and screw threads to fit corresponding seats ft. 3rd. An oscillating gear wheel A and the taper seated joint pins E, combined with the oscillating gimbal ring D in which also two of said pins are supported to form a joint having universal movements; 4th. The oscillating gear wheel A, gimbal ring D and taper seated joint bolts E, in combination with the main frame of a mowing machine.

No. 7589. Improvements in Railway Crossings and Switches.

(Perfectionnements dans les traverses et aiguilles de railroads.)

Joseph S. Williams, Riverton, N.J., U.S. 25th June, 1877, for 5 years.

Claim.—1st. Securing a continuous bearing for the car wheels at the crossings, either at points switching off or elsewhere (and locking or retaining in any desired positions either to main line or side track), the shifting pieces that affect the crossings or the plates or fillings which afford bearings for the wheels at the otherwise open spaces or joints; 2nd. Crossings which may operate independently of each other with communicating connections; 3rd. A curved rail forming the wing rail to a stationary frog piece and which may be operated by a switch lever; 4th. Forming a continuous bearing on the main line track by an immovable main line rail, and a continuous bearing on a side line rail by a single curved piece which may be shifted from main line by action of car wheels, or to side track in a similar manner, or be put in desired position by switch lever, or made to operate the same; 5th. Obviating jamming space between any rail or plate and the shifting piece operated adjacent thereto; 6th. A shifting piece at the crossing with plates, rails or fillings to take the bearing of the wheels either at the head or butt of the shifting piece, with communicating connection to the shifting pieces, which transfer the cars from main line to siding.

No. 7590. Improvements in Coal Oil Lamps.

(Perfectionnements dans les lampes a petrole.)

Samuel May, Toronto, Ont., 25th June, 1877, for 5 years.

Claim.—A three or more burner coal oil lamp or chandelier A for lighting billiard tables provided with reflecting shade B safety spring arms C, drip pan D, an adjustable pendant E, the safety spring arms C with springs c c.

No. 7591. Improvement in the Art of Making Bread.

(Perfectionnement dans l'art de faire le pain.)

Ebenezer W. Bateman, Hamilton, Ont., 25th June, 1877, for 5 years.

Claim.—The combination of say 3 lb. of compressed yeast to six pails of water, five hundred lbs. of the best patent flour and about eight lbs. of salt mixed and treated in the manner and for the purpose of making a white, pure and unadulterated bread.

No. 7592. Improvement on Feather Renovating Machines.

(Perfectionnement des machines a rafraichir la plume.)

Malcolm McKellar, London, Ont., 25th June, 1877, for 5 years.

Claim.—1st. The combination of drive wheel E, belt F, pulley G, fan K, casing for fan I and cylinder for fan J; 2nd. The space for steam L in the upper h. of casing A, and the steam pipes I and J, in combination with aforesaid space for steam L.

No. 7593. Improvements in Canisters for Groceries.

(Perfectionnements aux bidons a epices.)

Thomas McDonald, Toronto, Ont., 25th June, 1877, for 5 years.

Claim.—A metallic canister having a semi-circular sliding cover F, provided with lugs G, in combination with the semi-circular guide plates E E, with the stops I and butting against the ledge H.

No. 7594. Sand Papering Machine.

(Machine a appliquer le papier de verre.)

John Shaeleton, Toronto, Ont., 25th June, 1877, for 5 years.

Claim.—1st. The frame A with centrally placed revolving shaft D provided with a circular head H and adjustable weighted pressure roller F; 2nd. In combination with a revolving head covered with a preparation of sanded material, an adjustable weighted cross roller.

No. 7595. Improvements on Farm Waggon Springs.

(Perfectionnements aux ressorts de wagons a fardeaux.)

Luther Pulliam, Knob Noster, Mo., U.S., 25th June, 1877, for 5 years.

Claim.—1st. The spring a having the centre a and leaves b b; 2nd. The combination of the spring a having a centre a and leaves b b, the plate c, bolster B and waggon bed D.

No. 7596. Improvements on Heating Stoves.

(Perfectionnements aux cheminées.)

James E. Gridley, Saint Paul, Min., U.S., 25th June, 1877, for 5 years.

Claim.—1st. The hot air generator consisting of the inner open bottomed drum E and the outer open topped drum D; 2nd. The semi-circular heat check and spreader g, in combination with the generator D E and outer shell A; 3rd. The heat check and spreader h h arranged in the lower part of the air space d, in combination with the generator D E.

No. 7597. Improvements on Churns.

(Perfectionnements aux barates.)

John McDermid, Rockford, Ill., U.S., 25th June, 1877, for 5 years.

Claim.—1st. The combination of the churn say A, the open head C secured to the body provided with the cover B for removing and carrying purposes; 2nd. The cover B provided with ears B, in combination with the head having the opening C, screw nut D and screw bolts D; 3rd. A revolving barrel shaped churn having one solid head and one head with an opening, the removable longitudinal bars or beaters E.

No. 7598. Improvements on Anchors.

(Perfectionnements aux ancres.)

Pryse Protheroe, Surbiton, England, 25th June, 1877, for 5 years.

Claim.—A cup-shaped, or conical, or flat piece X with or without flukes joined thereto, the said piece having at its bottom one or more orifices communicating by a fixed or removable hollow stem O with a force pump so that the anchor can be sunk in a soft bottom by ejecting a stream of fluid through the said orifices and thereby displacing the material below the anchor.

No. 7599. Spring Bed Bottom.

(Fond de lit a ressorts.)

John Forbes, Jr. and William E. Forbes Plawwell, Mich. U.S. 25th June, 1877, for 5 years.

Claim.—In a bed bottom, the combination of the supporting frame B B connected to the bed bottom, and adjusting rods C C.

No. 7600. Improvements on Horse Shoes.

(Perfectionnements aux fers a cheval.)

Charles Taylor, Montreal, Que., 25th June, 1877, for 5 years.

Claim.—1st. A plate attached to the foot for the purpose of receiving and holding the shoe; 2nd. An elastic cushion interposed between the nail and outer shoe; 3rd. A shoe covering attached to a plate nailed or fastened to the foot with either a complete or partial rim or projection, or both extending to the surface of or above the plate; 4th. A counter sunk wedge or screw to fasten or secure the shoe to the foot; 5th. One or more recesses to receive downwardly projecting heads of the nails; 6th. One or more inclined planes on the plate or shoe or both, to receive the fastening or locking attachment that secures the shoe in position; 7th. A locking attachment to prevent backward action; 8th. A shoe attached to a plate with a locking attachment to prevent backward action or releasing of shoes from the plate or plates.

No. 7601. Improvements on Force and Lift Pumps.

(Perfectionnements aux pompes aspirantes a ventouses.)

Harmon Gilmore, Simcoe, Ont., and James Heath, Charlotteville Ont. 25th July, 1877, for 5 years.

Claim.—The combination of the ring valve F, water chamber H with conducting pipes M and cylinder A.

No. 7602. Improvements on Grocers' Scoops.

(Perfectionnements aux mains de grociers.)

Samuel L. Rockefeller, (Assignee of Alphonso Button) Rochester N.Y. U.S., 4th July, 1877, for 5 years.

Claim.—1st. The sheet metal cup C in combination with the wooden head A and handle B; 2nd. The method of attaching the metallic cup C to the head A.

No. 7603. Taper Making Machine.

(Machine a faire les cerces.)

Jean B Lamer St Albanse Que. 25th July, 1877, for 5 years.

Resume.—1o La combinaison du bassin ou cuve interieure C dans laquelle est placee la cire pendue par son bord recourbe D, reposant sur le bord du bassin exterieur B, de maniere a laisser un espace E qui, rempli d'eau, fait fondre la cire par la vapeur et la chaleur de l'eau en ebullition qui, par ce moyen, conserve la cire dans sa belle couleur et l'empêche de bruler. 2o La combinaison du moulin ou chassis H avec ses barres ou traverses I et les crochets J auxquels on attache les meches K, et la courroie ou chaîne P par laquelle il est suspendu, et le levier S qui le fait descendre et monter dedans et de la cuve ou bassin interieur C par l'action de la courroie ou chaîne P de maniere a plonger les meches K dans la cire et de les retirer. Aussi la combinaison du poids a et des dents a degres b pour contrebalancer le pesantier, ainsi que la cheville regulatrice d.

No. 7604. Improvements on Dental Pluggers.

(Perfectionnements aux tampons dentaires.)

Courtlen King, Pittsburg, Pa., U.S., 4th July, 1877, for 15 years.

Claim.—1st. A dental plugger having one or more slotted stems either solid or tubular running parallel with the plugging instrument and distinct from it; 2nd. The adjustable finger hold F provided with a spring f which has the tooth f for securing the finger hold in firm position on the vol D; 3rd. The lever D having the click k1 and notches d2; 4th. The hammer K having the groove for retaining the pawl K1, arm E3 for hinging the hammer K to the post K6; 5th. The spring K5, in combination with the post K5 and hammer K; 6th. The rod D and lever D, having the click k1 and notches d2; 7th. The hammer K, pawl K1 and spring K2; 8th. The combination of the finger hold F having the spring f with the rod D; 9th. The combination of the discs L and L1 with the instrument H; 10th. In an automatic dental plugger, the stem H made of wood or other light and fibrous material, and stem having the collar h.