

mechanism; 10th. The combination of the nut mover, the bolt mover, the bolt clamp and the transfer fingers; 11th. The combination of the nut mover, the bolt mover, transfer mechanism, the bolt clamp, the turning mechanism and the leading cam; 12th. The combination of the nut mover, the bolt mover, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam and the piston rod having a head of uniform size in the rear of its shoulders; 13th. The combination of the nut holder, the bolt holder, the bolt clamp, the turning mechanism and the transfer mechanism; 14th. The combination of the nut holder, the bolt holder, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam and the bolt discharger; 15th. The combination of the nut holder, the bolt holder, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam, and the piston rod having a head of uniform size in the rear of its shoulders; 16th. The combination of the nut holder, the bolt holder, the bolt mover, the bolt clamp, the turning mechanism, the transfer mechanism and the leading cam; 17th. The combination of the nut holder, the bolt mover, the bolt clamp, the turning mechanism, the transfer mechanism and the leading cam; 18th. The combination of the bolt clamp, leading cam, and connecting mechanism, the last operating to close said clamp, to move it forward to advance the bolt carried by said clamp, into the nut, to permit said clamp to open and to move it back; 19th. The combination of the bolt clamp, the turning mechanism, the leading cam and the stop latch; 20th. The combination of the nut holder, the bolt holder, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam and the stop latch; 21st. The combination of the nut mover, the bolt mover, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam and the stop latch; 22nd. The combination of the nut holder, the bolt holder, the nut mover, the bolt mover, transfer mechanism, the bolt clamp, the turning mechanism, the leading cam and the stop latch; 23rd. The combination of the transferring fingers, the bolt clamp, the turning mechanism, the leading cam and the stop latch; 24th. The combination of the bolt holder, the bolt mover, the bolt guard and the transferring fingers; 25th. The combination of the bolt holder, the bolt mover, the bolt guard, the transferring fingers and the bolt clamp; 26th. The combination of the bolt holder, the bolt mover, the bolt guard, the transferring fingers, the bolt clamp, the nut holder and the turning mechanism.

No. 10,259. Improvements on Chisel Pointed Cut Nails and Machines for Making the same. (*Perfectionnements aux clous coupés biseautés et aux machines pour les fabriquer.*)

George Stacy, Montreal, Que., 18th July, 1879, (Extension of Patent No. 3666), for 5 years.

No. 10,260. Improvements in Ploughs.

(*Perfectionnements aux charrues.*)

Francis Stanley, Toronto, Ont., 21st July, 1879, for 5 years.

Claim.—1st. The ploughshares B, pivoted on the bolts D to the frame A and provided with coulters bars E, in combination with the links Q and lever O; 2nd. The pivoted ploughshares B, provided with coulters bars E, in combination with the guide bars E; 3rd. The wheel I, pivoted to the spindle J having an adjusting nut N, or its equivalent, in combination with the frame A of a gang plough; 4th. The barbed cultivating wheel S, when used in combination with an adjustable spindle, attached to the frame of a gang plough.

No. 10,261. Mechanism for Transforming Rectilinear Reciprocating Motion into Rotary Motion. (*Mécanisme pour changer le mouvement rectiligne de va-et-vient en mouvement rotatoire.*)

William F. Goodwin and Edward F. Roberts, New Brunswick, N. J., U. S., 21st July, 1879, for 5 years.

Claim.—1st. The mechanical movement composed of the reversed spirally inclined planes A B C, arranged to operate together in the manner described; 2nd. The reversed spirally inclined planes A B C, arranged within the cylinder D, in such manner that the cylinder will serve as an enclosure and support for the movement and to retain oil to the working surfaces of its spiral planes; 3rd. The combination with the cylinder D, of the reversed inclined planes B C, arranged to form the heads of said cylinder; 4th. The combination of the inclined planes A B C, the flanges b c of said planes B C, the cylinder D and its flanges d, and the hubs M N, constructed and arranged to serve the purpose of a lifting winding drum; 5th. The lever G, in combination with the reciprocating mechanism of the movement; 6th. In combination with the lever G, the anti-friction roller bearings H h h', 7th. In combination with the reciprocating parts of the movement and the buffers I L, the buffers I I', 8th. The combination with the shaft F, and collar or disk N, the bearing N, carriers N', rollers n, and the end plates n n'; 9th. In combination with the hubs M M' and cylinder D of the movement, the cages of anti-friction rollers m, and the recessed bearings m'.

No. 10,262. Improvements in Fire Alarm Boxes. (*Perfectionnements aux boîtes d'alarme d'incendie.*)

Alexander Anderson and Josiah Nesbitt, Toronto, Ont., 21st July, 1879, for 5 years.

Claim.—1st. A fire alarm signal box, having its mechanism so arranged that the signaling mechanism shall be put in operation by the opening of the door or the withdrawal of a stop; 2nd. The double arm H, connected to the alarm works as specified, and provided at one end with a tongue F, and at the other with a hub I holding the double-ended crank J K, in combination with the ledge L, or its equivalent, and the latch O attached to the door P; 3rd. The spindle Q, having a suitable arm R, in combination with the latch O attached to the door P; 4th. Insulating the circuit breaker S, by inserting the rubber band T, or its equivalent; 5th. The switch W, pivoted to the post V, and arranged so that it can be brought in contact with the post V.

No. 10,263. Process and Apparatus for Evaporating Liquids. (*Procédé et appareil de vaporisation des liquides.*)

Francis Rourke, Dublin, Ont., 21st July, 1879, for 5 years.

Claim.—1st. The process for the evaporation of brine and other liquids having solids in solution, the said process consisting in forcing the liquid into the air in spray or a finely divided state; 2nd. The combination with appliances adapted to force brine or other liquids having solids in solution into the air in spray form, of receiving pans arranged to receive the precipitated salt and surplus liquid and to separate them as set forth.

No. 10,264. Improvements on Curd Cutters.

(*Perfectionnements aux ménéles de fromage.*)

Henry H. Potter, Sterlingville, and James B. Harris, Antwerp, N. Y., U. S., 21st July, 1879, for 5 years.

Claim.—1st. The combination with the frame A, having post B of the lever C, suspended follower D and box E, having a removable frame bolt m F provided with intersecting knives H. 2nd. The combination of the box E, having guide posts f, the follower D, suspended from the lever C, and the bent wire handle I, for swinging and sustaining the follower clear of the box, for insertion of the curd.

No. 10,265. Improvements on Washboards.

(*Perfectionnements aux planches à savonner.*)

John C. Schoonmaker, Hamilton, Ont., 21st July, 1879, for 5 years.

Claim.—The combination of the wooden frame A, with a metal covering B, having the corrugated rubbing surface E, the soap rests C, and the ear I soldered thereto.

No. 10,266. Improvements in Harvester Rakes. (*Perfectionnements aux râtaux des moissonneuses.*)

Christopher C. Bradley, Syracuse, (Assignee of Mary J. Holmes, administratrix of the estate of Perry Thompson, Osteen), N. Y., U. S., 21st July, 1879, for 5 years.

Claim.—1st. An automatic mechanism for opening the gate of a harvester rake cam way, so as to force any particular arm to rake, the following devices in combination, viz.: a trip latch m, adapted to be acted upon by the said raking arm, a counter balanced lever S, a cross lever G, connected with the gate, and a spring H; 2nd. An automatic mechanism for closing the gate of a harvester rake cam way, so as to force any particular arm to reel, the following devices in combination, viz.: a shutting lever I, adapted to be acted upon by a raking arm, a lever and link connection J K L, a cross lever G, connected with the gate, and a self acting lock lever S to clutch the cross lever and keep the gate shut; 3rd. The combination with the cam way B, having a slight rotation about the rake head standard, with reference to the rake head and rake arms, of the automatic mechanism for opening and closing the cam way gate; 4th. In combination with a trip latch hung upon a slotted pivoted bearing O N, a removable pin P adapted to prop the latch up into position for action; 5th. In combination with a rake cam way, a movable gate C, arranged to be acted upon automatically by the rake arms to open and to shut, so as to cause the arms to rake and to reel; 6th. The trip latch M; 7th. The combination of the trip latch M, with the lock latch S; 8th. The lock latch S, counterbalanced by the weight U; 9th. The combination of the cross lever G, which carries the gate C, and is connected with the shutting lever I, with the lock latch S and supplement latch X; 10th. In combination with a trip latch hung upon a slotted pivoted bearing O N, a removable pin P, adapted to prop the latch up into position for action; 11th. A device for keeping the gate of a harvester cam way open, a spring H, in combination with a cross lever G, connected with the gate; 12th. As a means of connecting and controlling the relative position of the cam way gate C, a shutting lever I, the stems J F, levers K G and link L, in combination as described.

No. 10,267. Steel Tempering Furnace.

(*Fourneau pour recuire l'acier.*)

John B. Armstrong, Guelph, Ont., 21st July, 1879 (Extension of Patent No. 4,034), for 5 years.

No. 10,268. Improvements in Wringing Machines. (*Perfectionnements aux essoreuses.*)

Alfred Eddy (Assignee of Ransom G. Baldwin & Andrew J. Parkhurst, Oskaloosa, Iowa, U. S.), 21st July, 1879, for 5 years.

Claim.—The combination of the presser plate D, having groove d rack G, having ridge c, frame pieces ff, having butts g g, and pivoted cog lever H.

No. 10,269. Improvements on Sewing Machines. (*Perfectionnements aux machines à coudre.*)

William J. Stewart, St. Louis, Mo., U. S., 21st July, 1879, for 5 years.

Claim.—1st. The combination of convex faced eccentric D, shuttle driving lever F, yoke E E', and recessed roller blocks D, upon the arms of the yoke; 2nd. Roller blocks D, having bearing recesses d d', varying in position relatively to the pivot pin of the roller block; 3rd. The provision in the shuttle driving lever F, of the yoke arm connected to the arm by adjusting screw e and with end e', resting against spring e'; 4th. The combination of cam I, on shaft B, lever bar L, bell crank lever n and adjusting pin O, with eccentric bearing stud O; 5th. The friction block or rollers h formed with one or more recesses d; 6th. The feed operating head or disc O', formed with a series of stitches indicating numbers; 7th. The provision in a sewing machine, of an indicator plate P, for indicating the numbers of needle, stick and thread that are to be used together; 8th. The operating disc O', provided with a series of stitch indicating numbers, in combination with the indicator plate P; 9th. The shaft q, made in two portions, and connected together by a coupling sleeve q'; 10th. The take up lever S; 11th. The combination, in a needle holder for sewing machines, of a sleeve R re-