

No. 10,400. Improvements in Cake Griddles.*(Perfectionnements aux casseroles à gâteaux.)*

Jonathan V. Taylor, Lansingburgh, N. Y., U. S., 29th August, 1879, for 5 years.

Claim.—1st. The combination of a fixed plate, having raised lugs, with a hinged plate that dumps the cakes and rests on the lugs, so as to admit air to the cakes between the plates; 2nd. The combination of a fixed plate with a swinging plate having a hinged handle with a projecting shoulder bearing on the plate.

No. 10,401. Improvements in Sewing Machines and Cops. *(Perfectionnements aux machines à coudre et aux bobins.)*

John Keats, Wood Green, England, 29th August, 1879, for 15 years.

Claim.—1st. In a reciprocating rotary shuttle, having a recess for receiving the open loop of the needle thread extending up to and beyond its axis of motion, the use of a cover which, when opened, will disclose the whole of the interior to view, and which is provided with a slot that overlies the centre of the cap and an eye situated near the centre of motion of the shuttle; 2nd. The combination, with a reciprocating rotary shuttle having its axis parallel, or thereabouts, with the line of motion of the needle, and having, provided upon it, a series of contrate teeth, of a driving shaft set at an inclination, both to the line of motion of the needle and to the axis of the shuttle, and a contrate wheel, upon the said shaft, gearing with the contrate teeth on the shuttle; 3rd. The combination, with the reciprocating rotary shuttle having its axis parallel, or thereabouts, with the line of motion of the needle, and having, provided upon it, a series of contrate teeth, of a contrate driving wheel which gears with said contrate teeth, and one of whose teeth, which is both longer and wider than the others, enters into the recess provided in the shuttle for the entrance of the loop of the needle thread, and acts upon the sides of the said recess to drive the shuttle during a portion of its rotation; 4th. The preparation of the compressed cop for insertion in the rotary shuttle; 5th. Mounting the presser and feed bar in a vertically reciprocating guide and holding it firmly therein by a gripping or binding surface; 6th. The arrangement of mechanism for locking the presser and feed bar in position upon the work and thereby enabling it to resist the upward pull of the needle thread, without unduly pressing upon the work; 7th. The arrangements of parts whereby the presser bar, when locked to its guide-box, will be free to receive the requisite motion for feeding the work.

No. 10,402. Stove Pipes Screwing Machine.*(Machine à fileter les tuyaux de poêle.)*

Edward M. Ball, Hatley, and Wright Sleeper, Coaticook, Que., 29th August, 1879, for 5 years.

Claim.—1st. The combination of the circular disks B B with the feeding screw shafts C C, connecting gears D D, roller H and cone I; 2nd. The combination of the circular disks B B, shafts C C, connecting gears D D and roller J with chuck K.

No. 10,403. Improvements in Derricks. *(Perfectionnements aux treuils.)*

Edward Moore, Portland, Me., and Augustus R. Wright, Geneva, N. Y., U. S., 31th August, 1879, for 5 years.

Claim.—1st. A platform, revolving upon a circular track and carrying symmetrically arranged booms and hoisting devices connected with each, in combination with an engine mounted on said platform and with suitable drawing mechanism, whereby a bucket may be lifted at either end and transferred from one side to the other; 2nd. In the combination of a revolving platform, booms arranged opposite to each other for hoisting and transferring from side to side a central mast and guys connecting the booms and mast; 3rd. The combination of the booms D D, mast B, guys and circular platform; 4th. The combination of the booms D D, mast B with circular platform and with central shoe C; 5th. The circular platform, composed of the two annular beams separated to admit of the wheels, in combination with the transverse timbers b b; 6th. In the combination of the lower platform supporting a circular track and upper platform mounted upon wheels adapted to move on said track, an annular ratchet bar fixed upon the lower platform concentric with the circular track and a pinion in gear with said ratchet bar, with driving mechanism mounted upon the circular platform; 7th. The combination of the drums p p, central shaft r, engine s s and the intermediate connections.

No. 10,404. Improvements on Concrete Skips.*(Perfectionnements aux caissons à béton.)*

Edward Moore, Portland, Me., and Augustus R. Wright, Geneva, N. Y., U. S., August 30th, 1879, for 5 years.

Claim.—A concrete skip provided with valves for holding the concrete and allowing it to be deposited in place, said valves being located above the open mouth of the skip; 2nd. The combination of the valve, spring catches, releasing cams and rods.

No. 10,405. Improvements in Horse Powers and Elevating Machines. *(Perfectionnements aux manèges et élévateurs à cheval.)*

Peter K. Dederick, Albany, N. Y., U. S., 13th August, 1879 (Extension of Patent No. 3,900), for 5 years.

No. 10,406. Improvements in Steam Boiler Feeders. *(Perfectionnements aux alimentateurs de chaudières à vapeur.)*

Benjamin F. Fitch, Lacrosse, and Charles M. Masters, Sparta, Wis., U. S., 30th August, 1879, for 5 years.

Claim. The duplex chambers A A', steam chests a a, slide valves a' a', opening cams b b', closing cams b' b', pipes i g m, syphon pipe e' and spray sheet e.

No. 10,407. Improvements on Nut Locks.*(Perfectionnements aux arrête-noir.)*

Samuel E. St. O. Chapleau, Ottawa, Ont., 2nd September, 1879, for 5 years.

Claim.—1st. In a nut lock plate, the slot C; 2nd. In a nut lock plate having the slot C, the triangular check E in locking portion B; 3rd. In a nut lock plate having the slot C and check E in the locking portion B, the triangular check E in the end of the plate; 4th. In a nut lock plate having the slot C, check E in locking portion B and check E' in the end of plate, the square end of the plate F.

No. 10,408. Improvements in Fish Traps. *(Perfectionnements aux pièges à poisson.)*

Henry Webb, Rockport, Mass., U. S., 2nd September, 1879, for 5 years.

Claim.—1st. The combination of the netting trap-body A, open in rear and provided with a bottom and floats and a pocket, with the stationary guides B B, movable wings C C and the stay lines c d i k l, with or without the central wing E; 2nd. The combination of the stationary guides B B, movable wings C C and stay lines c d i k l with the trap body open in rear and provided with a bottom and floats; 3rd. The combination of the netting trap body A, open in rear and provided with floats and series of anchors f, support lines l g, brace lines d i k l and a pocket D, with the stationary guides B B, movable wings C C and the brace line c of one or both of such wings, with or without the central wing E.

No. 10,409. Improvements on Ploughs. *(Perfectionnements aux charrues.)*

Christopher Bentley, Dresden, Ont., 2nd September, 1879, for 5 years.

Claim.—1st. The curved beam A attached by bolts a a to land side B of a plow; 2nd. The mode of attaching and adjusting coulter C by means of beam A and set screw D.

No. 10,410. Improvements in Electric Telephones. *(Perfectionnements aux téléphones électriques.)*

Sidney H. Short, Columbus, Ohio, U. S., 2nd September, 1879, for 5 years.

Claim.—1st. A telephonic transmitter, in which the imperfectly conducting medium is held under pressure applied independently of the diaphragm and the electrical pulsations are caused by the diminution of the normal pressure effected by the vibrations of the diaphragm; 2nd. In a telephonic transmitter in which the pressure is applied independently of the diaphragm, the combination of the diaphragm and the standards carrying the resisting medium; 3rd. In the combination of the diaphragm, the standards carrying the resisting medium and the set screw; 4th. In combination with the diaphragm of a telephonic transmitter, the device for checking the vibrations of said diaphragm; 5th. In the combination of the diaphragm, the standards and the disks formed with concave faces and carried upon the standards with the double convex button, the pivots being adapted to each other; 6th. In a telephonic transmitter, a standard fixed to the diaphragm, at some point between its centre and edge, and acting in connection with another standard to hold the carbon under pressure and to diminish said pressure by vibrations of said diaphragm, said carbon being in electrical connection.

No. 10,411. Improvements in Sewing Machines. *(Perfectionnements aux machines à coudre.)*

Samuel Y. Love, Philadelphia, Penn., U. S., 2nd September, 1879, for 5 years.

Claim.—1st. The combination of the head A, the rotating cam block B, the needle bar D, its slide c carrying the needle and an arm or lever controlling the said slide and arranged in respect to the rotating cam block, so that upon the reciprocation of the bar D, the slide c will be reciprocated and the block B partially rotated; 2nd. The combination of the head A, the rotating cam block B, the needle bar D, its slide c and the arm or lever J having a spring finger m; 3rd. The lever J made in two parts joined together, one part being capable of movement independent of the other, such movement being governed by the adjustment of a set screw.

No. 10,412. Elevator and Bag Holder. *(Élévateur et accroche-sac.)*

George Millin, Hullett, Ont., 2nd September, 1879, for 5 years.

Claim.—1st. The combination of belts, canvas and bracket D or E E and the shaft F; 2nd. The bag fastener A or C C and its jaws B B; 3rd. The method of conducting the grain to either sides of the mill into the elevator by the grain guide B C and conduit pipe D.

No. 10,413. Flour Manufacturing Process and Apparatus. *(Procédé et appareil pour la fabrication de la farine.)*

Benjamin H. Skoyles, Odessa, Ont., 2nd September, 1879, for 5 years.

Claim.—1st. Passing the middlings and bran through a bolting reel in which they are alternately rolled or crushed and sifted; 2nd. The combination, with the bolting reel provided with the bars J, of the adjustable rollers I, or their equivalent, said reel and rollers being arranged to alternately crush and sift the middlings and bran; 3rd. The combination of the bolting reel A, collars c c and the stationary hollow bar B; 4th. The combination of the hollow stationary bar B, shaft E, chains F and levers G; 5th. The pivoted levers G in combination with the roller beam H and rollers I; 6th. The bar B and brackets F in combination with the levers G, roller beam H and rollers I.

No. 10,414. Device for securing and retaining Keys in Key Holes. *(Manière d'ajuster et retenir les clefs dans les trous de serrures.)*

William Metoalf, Toledo, Ohio, U. S., 2nd September, 1879, for 5 years.

Claim.—The combination, with the key-hole plate A, of the plate B sliding in suitable bearings in said key-hole plate, the said plate B being provided with handle C, notch D and bent spring E.