

Pressure between the electrodes and yield to the movements of the diaphragm; 3rd. The adjusting lever D for regulating the tension of the spring d, which carries one of the electrodes e and the initial pressure between the two electrodes e e' and against the diaphragm; 4th. The combination of the two electrodes by means of springs acting against each other, to maintain the electrodes in contact when forced away from the diaphragm; 5th. The yielding weight g connected with the movable electrode e' to resist the movement of the diaphragm and modify by its inertia the variation of pressure between the two electrodes.

**No. 10,022. Improvements in the Preparation of Peas.** (*Perfectionnements dans l'apprêtage des pois.*)

Henry H. Beach, Rome, N. Y., U. S., 28th May, 1879, for 5 years.

*Claim.*—As a new article of manufacture, cooked and flattened peas.

**No. 10,023. Improvements on Clothes Wringers.** (*Perfectionnements aux essoreuses à linge.*)

Patrick H. Cooney, Erie, Penn., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. In a combined wash bench and wringer, the frame composed of the parts A B &c., with rungs D<sup>2</sup> D<sup>3</sup> D<sup>4</sup>, hooks M N O and hook brace b; 2nd. A tub bench provided with legs C which are provided with means whereby they may be detached from the top of the bench, by swinging them from the position they occupy when sustaining the bench; 3rd. In combination with legs C, hooks N O and rungs D<sup>2</sup> D<sup>3</sup>, the horizontal bar A; 4th. In a combined wash bench and wringer machine, the means whereby the weight of the tub shall serve to draw the said rollers together; 5th. The combination of the treadle F, levers E and A, and rollers I I'; 6th. The drip trough of a wringer machine composed of the parts J K L; 7th. The combination, within a combined wash bench and wringer, of the bars A, uprights C B, rungs D, D<sup>2</sup> D<sup>3</sup> D<sup>4</sup> D<sup>5</sup>, hooks M N O, hook brace b, levers E and A, hooks e e' g h, stirrup irons H and rollers I I'.

**No. 10,024. Improvements on Incased Barrels.** (*Perfectionnements aux barils doublés.*)

Alphonso W. Blye, Syracuse, N. Y., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. The straight metal cylinder A, having inward grooves formed by the outward beads b b, in combination with the metal heads B B having their concave sides outward and their edges fitted into said grooves and sealed; 2nd. The combination of the concave metal heads B B, the straight metal cylinder A, having the beads b b forming inward grooves to receive and seal the edges of said concave heads, the plano-convex heads F F and the metal end rings H H; 3rd. A wood incased metal barrel having the inner metal heads B, the outer wooden heads and the beads b, the inner grooves of which and the circumference of the wooden heads join and give the proper support and seat to the circumference of the metal heads having their concave sides outward; 4th. The combination, with the metal cylinder A having inward grooves in its body, the metal heads B B, inwardly curved and fitted into said body grooves, and the outer heads F F, of the outer staves C, their binding hoops E E' and the inner bilging bands D.

**No. 10,025. Improvements on Machines for Sawing Stone.** (*Perfectionnements aux machines à scier la pierre.*)

George Jennings and John L. Robellaz, New Albany, Ind., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. The head block I with rollers i i, and adjustable bar J, with the saw F secured thereto; 2nd. The combination of the head block I with perforated arm K, slide L, slotted and hinged guide O, and adjusting screw R.

**No. 10,026. Improvements on Boiler Injectors.** (*Perfectionnements aux injecteurs des chaudières.*)

William B. Mack, Boston, Mass., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. An injector provided with an attachable and detachable delivery cone; 2nd. In an injector, the section a of the casing made in a single casting; 3rd. In an injector, the overflow or waste pipe attachment having a shoulder o, combined with the shouldered nut or coupling which connects the attachment to the injector; 4th. In an injector, the adjustable conical regulating valve combined with a suitable seat located in the water supply pipe.

**No. 10,027. Improvements on Wrenches for Bung Bushes.** (*Perfectionnements aux clés pour les dés des bondes.*)

George B. Cornell, Chicago, Ill., U. S., 28th May, 1879 (Extension of Patent No. 3,681), for 5 years.

**No. 10,028. Improvements on Carriage Wheels.** (*Perfectionnements aux roues des voitures.*)

George N. Bourque, Sherbrooke, Que., 28th May, 1879, for 5 years.

*Claim.*—The spoke A, the socket B, clip C with spur D, all in combination, and the felloe E having a small hole.

**No. 10,029. Improvements on Windmill Pumps.** (*Perfectionnements aux pompes à vent.*)

George M. Beard, Angola, Ind., U. S., 28th May, 1879, for 5 years.

*Claim.*—In the combination of the wind wheel, a rope or chain, a weighted lever that is connected to a piston moving in the cylinder, a water pipe and a tank having a float valve.

**No. 10,030. Improvements on Churns.**

(*Perfectionnements aux barattes.*)

Issac W. Plewes, Lynedock, Ont., 28th May, 1879, for 5 years.

*Claim.*—1st. An oscillating churn body C, suspended from a stand composed of two A-shaped side frames B by angular shaped irons E E, pivoted through the apex by a pin or bolt F; 2nd. The oscillating churn body composed of wooden sides G and sheet metal bottom, ends and top H, with transverse bolts K to hold the sheet metal removably in the grooved sides; 3rd. The oscillating churn body C, having rounded ends, and a volute scroll portion d at top.

**No. 10,031. Method of Developing Electric Light.** (*Méthode pour produire la lumière électrique.*)

Thomas A. Edison, Menlo Park, N. Y., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. The combination, with an electric light, of a thermal circuit regulator, to lessen the electric action in the light, when the maximum intensity has been attained; 2nd. The combination, with the electric light, of a circuit closing lever operated by heat from the electric current or from the light, and a shunt or short circuit to direct the current or a portion thereof from the light; 3rd. The combination, with the electric light and a resistance, of a circuit closer operated by heat, and serving to place more or less resistance in the circuit of the electric light; 4th. The combination, with an electric light, of a diaphragm operated by the expansion of a gas or fluid, in proportion to the temperature of the light to regulate the electric current; 5th. The combination, with a vibrating body similar to a tuning fork, of mechanism for maintaining the vibration and magnets, cores and helices, whereby a secondary current is set up, so as to convert mechanical motion into electric force or the reverse; 6th. The combination, with electric lights, of means for regulating the electric current to the same, in proportion to the heat evolved in the light, so as to prevent injury to the apparatus.

**No. 10,032. Improvements on Gas Carbureters.** (*Perfectionnements aux carburateurs à gaz.*)

Edward A. C. Pew, Welland, and Richard W. Scott, Ottawa, Ont., 28th May, 1879, for 5 years.

*Claim.*—1st. The carbureting vessel constructed of the horizontal outer and inner concentric cylinders a b, the latter having the chamber k and the innermost cylinder l m having perforations, and the absorbent material surrounding it; 2nd. The carbureting cylinder b having central vertical partition c, and the smaller perforated cylinder having chambers l m, separated by vertical perforated partition p, and the absorbent material placed around said smaller cylinder, whereby the air first enters chamber k, and thence passes successively into chambers m l; 3rd. In an air forcing apparatus, for use in connection with a carbureting vessel, the combination, with pump A, of the receiver having the elastic top formed of a sheet of rubber, and a lever or weight arranged to press upon said top; 4th. In an air forcing apparatus, for use in connection with a carbureting vessel, the combination of a lever with the motor, the air pump proper and an air receiver having a rising and falling top, said lever being arranged to come in contact with a wheel of the motor, and act as a brake when the pressure in the receiver becomes sufficient to raise its top; 5th. In an air forcing apparatus, the combination of the rod G, the adjustable collar f, the guide H and brake lever D hinged on a fixed fulcrum, the elastic top F of the receiver and the motor and air pump proper.

**No. 10,033. Apparatus for Throwing Targets.**

(*Appareil pour abaisser les cibles.*)

John G. Mole, Batavia, Ill., U. S., 28th May, 1879, for 5 years.

*Claim.*—1st. The axle F with hub g, long arm h and short arm i, with recess i', in combination with the strap T, spring U, cylinder D, standard B and platform A; 2nd. The spring thrower R, provided with cup S and fastened to arm h, in combination with the trip lever N, rod k, trigger lever P, straps V T, axle F, standard B and cylinder D.

**No. 10,034. Improvements on Bag Trucks.**

(*Perfectionnements aux camions porte-sacs.*)

Anthony Kline, Middleton, Ont., 7th June, 1879, for 5 years.

*Claim.*—1st. A bag truck constructed of solid base board A attached to axle block D; 2nd. The axle block D, having grooved channel formed in it for receiving the axle c, covered by detachable cap E; 3rd. In combination with base board A, the handles B B and holder C having double edge a b; 4th. The base board A, handles B B and holder C, in combination with the axle block D and covering cap E; 5th. The mode of attaching one of the traction wheels F rigidly to the axle c, while the other G is loosely pivoted thereon.

**No. 10,035. Machine for Sharpening Reaper Knives.** (*Machine à émouler les couteaux des moissonneuses.*)

Peter Williams, London, Ont., 7th June, 1879, for 5 years.

*Claim.*—1st. The combination of the frame A, stone B and chain wheels C D; 2nd. The combination of eccentric F provided with slot I, wrist pin H, pitman G and upright J; 3rd. The combination of the knife rest L L, box N, thumb screw M, knuckle joint O and weight R.

**No. 10,036. Improvements on Screw Machines.** (*Perfectionnements aux machines à vis.*)

Emery Parker, New Britain, and Horace K. Jones, Hartford, Conn., U. S., 7th June, 1879, for 15 years.

*Claim.*—1st. The combination, in a screw blank holder, of a pair of jaws, fitted to receive the head of a blank and to engage with the shank thereof beneath the head, with an ejector which co-operates with the jaws in hold-