

D, and cover E resting upon said ledge and formed with recess *f*, of the ring G formed with inclines *g*, thumb-pieces J and head K fitting in recess *f*, and the bail F, fitting across the top of ring G, and having its lower ends turned inwardly and fitting under ledge D, substantially as described. 2nd. The combination, with jar A provided with ledge D and cover E resting on said ledge, and having a serrated periphery of the ring G formed with inclines *g* and the bail F lying across said ring, with its downwardly projecting portions in the serrations of the cover, and its lower ends turned inwardly and fitting under ledge D, substantially as described.

No. 25,929. Water Gauge for Steam Boilers.

(Indicateur d'Eau pour Chaudières à Vapeur.)

Dougald H. Roberts, Wallaceburg, Ont., 7th February, 1887; 5 years.

Claim.—In a double action water gauge, the body A having jaws C, C, bearing part B, hole E through the body A, pin D through jaws C, C, in combination with weighted handle K having short extension J, projection with hole G, double chambers or caps I, I, slots H, H and protector L, all formed substantially as and for the purpose hereinbefore set forth.

No. 25,930. Weather Strip. (Bourrelet de Porte.)

Walter S. Carnosky, Kingston, Ont., 7th February, 1887; 5 years.

Claim.—1st. A weather strip having the horizontal slot *a*, vertical slot *c*, and the rubber cushion D sunk flush in the lower edge of the wooden strip A, substantially as shown and specified. 2nd. A weather strip having the slots *a* and *c*, and the arm E secured to the wooden strip A, and provided with the finger *e* arranged to slide under the plate F attached to the door jamb, substantially as shown and described. 3rd. A weather strip pivoted to the hinged side of a door, and provided with the spring C in the chamber *d* and secured to the door, the cushion D and the arm E having the finger *e* arranged to work on the plate F in the door jamb, all substantially as shown and for the purpose specified.

No. 25,931. Vegetable Cutter. (Coupe-Racine.)

DeForest Bullock, Busti, N. Y., U. S., 7th February, 1887; 5 years.

Claim.—1st. In a vegetable cutter, constructed substantially as described, a hopper A having an inclined bottom with a projecting portion *b*, in combination with a reciprocating slide having grooved sides for receiving and retaining transverse boards H and H', a knife located between said boards so as to engage the projecting portion *b* of the bottom board of the hopper, substantially as shown and for the purpose set forth. 2nd. In a vegetable cutter, constructed substantially as shown, a reciprocating slide provided with a knife I, and a series of transverse cutters J secured under the cutting edge of the knife, for the purpose set forth. 3rd. In a vegetable cutter, constructed substantially as described, and provided with a bottom board having a portion which extends downwardly in the path of the reciprocating cutter, in combination with the reciprocating cutter provided with a transverse board H, and knife I secured on a line with the upper portion of said board, so as to contact with the projection portion *b* of the bottom board when depressed, and the board H' located beneath the plane of the board H and provided with a series of cutters J which extend from the rear side of said board to the cutting edge of the knife, substantially as shown.

No. 25,932. Paper File. (Serre-Papier.)

Alexander B. Sherwood, Chicago, Ill., U. S., 7th February, 1887; 5 years.

Claim.—1st. In a paper-file, the combination, with the base A, of a receiving-wire and a transfer-wire arched to coincide at its extremity with the receiving-wire, and provide a permanent space *o*, substantially as and for the purpose set forth. 2nd. In a paper-file, the combination, with the base A, of a receiving-wire and a movable transfer-wire, arched to coincide normally at its extremity with the receiving-wire, and provide a permanent space *o*, substantially as and for the purpose set forth. 3rd. The combined punch and gauge E for a paper-file comprising in combination with a tubular rod *u* notched at one extremity to provide puncturing-points and cutting-edges, a gauge F provided with an opening *k*, and a guide tube *u* to fit over the tubular rod *u*, and a spring *b* upon the parts *n*, *n*, substantially as described. 4th. The combined punch and gauge E for a paper-file, comprising in combination, a tubular rod *u*, notched at one extremity to provide puncturing-points and cutting-edges, a bevelled stop *l* within the rod *u*, a gauge F, provided with an opening *k*, and a guide-tube *u* to fit over the tubular rod *u*, and a spring *b* surrounding the parts *n*, *n*, substantially as described. 4th. In a paper-file, the combination, with the base A, of a receiving-wire, a transfer-wire, arched to coincide at its extremity with the receiving-wire, and provide a permanent space *o* and a combined gauge and punch E between the receiving and transfer wires, substantially as and for the purpose set forth. 6th. In a paper-file, the combination, with the base A, of two parallel receiving-wires C and C', two transfer-wires D and D' arched to coincide at their extremities with the adjacent receiving-wires and provide permanent spaces *o*, and a combined gauge and punch E between the receiving and transfer wires, comprising in combination two parallel tubular rods *u* notched at adjacent extremities to provide puncturing-points and cutting-edges, bevelled plugs *l* within the rods *u*, a gauge F provided with openings *k*, and guide tubes *u* to fit over the tubular rods *u* and maintain the opening *k* coincident with the said tubular rods, and spiral springs *b* surrounding the parts *n*, *n*, and tending to maintain the gauge F normally with the entrance to the same coincident with the spaces *o*, substantially as described. 7th. In a paper-file, the combination, with the base A, of a frame B secured thereon, and provided with a socket *g*, a thumb-screw *p* to enter the socket laterally, a receiving-wire, a transfer-wire flattened toward one end to enter the socket *g* and be engaged by the thumb-screw, and arched toward its opposite end to coincide normally at its extremity with the receiving-wire and provide a permanent space *o*, substantially as and for the purpose set forth.

No. 25,933. Automatic Injector for Supplying Steam Boilers with Water.

(Injecteur d'Eau Automatique pour Chaudières à Vapeur.)

Franklin W. Kremer, Wadsworth, Ohio, U. S., 7th February, 1887; 5 years.

Claim.—1st. In an injector, having steam and water inlets and an outlet, the tubular screw spindle *k*, provided with a steam inlet port *k*, and a collar *k* on the same, and a threaded bonnet *f*, in which said spindle is moved longitudinally to open and wholly close the inlet, combined with the suction chamber, separated from the steam inlet by the diaphragm *i*, and the packing gland J surrounding said spindle and bearing upon the diaphragm, substantially as shown and described. 2nd. The combining tube, provided with a valvular base interposed between the suction and exhaust chambers, a superposed lifting tube, a longitudinally adjustable steam inlet spindle provided with a steam inlet port, and a collar on said spindle co-operating with the bonnet in which said spindle is adjustable to open and close said port by the longitudinal movement of said spindle in said bonnet, combined to control the flow of water commensurately with the steam pressure, substantially as described. 3rd. In an injector, the combination, with the steam and water inlets, the suction chamber and the outlet, of the screw-threaded steam spindle *k*, having a longitudinal steam passage *k*, an inlet port *k* and a collar *k* arranged below said port, the screw-threaded bonnet *f* in which the said spindle is adjustable, and against the bottom of which it is seated to wholly shut off the supply of steam, and a hand-wheel to operate said spindle, substantially as described. 4th. The tube *m*, forming a chamber above the combining tube, combined with such combining tube ports therein, a check valve co-operating automatically with said ports, a delivery chamber having an automatically operated check valve in its overflow, and steam induction spindle provided with a valvular port, and operable by longitudinal adjustment to automatically start and maintain the flow of water, and to re-establish it after accidental cessation, substantially as described.

No. 25,934. Trotting Sulky. (Débobligeante.)

William E. Lamson, Sarnia, Ont., 7th February, 1887; 5 years.

Claim.—1st. In a sulky, an axle divided longitudinally between the spindles, the middle division 3 curved upwardly for attachment of the single tree, and the outer division 2, 4, curved higher than the middle division, and spread outwardly to support the driver's seat, substantially as set forth. 2nd. In a sulky frame, the thighs *k* secured to the outer divisions 2 and 4 of the axle near its spindles, substantially as set forth. 3rd. In a sulky, having an axle divided longitudinally between the spindles, as set forth, the single tree pivoted to the crown on the middle division under the driver's seat, and the driver's seat secured to the outer divisions of the axle, as set forth.

No. 25,935. Standard for Electrical Lamps.

(Suspension pour Lampes Electriques.)

James F. Munsie, Chicago, Ill., U. S., 7th February, 1887; 5 years.

Claim.—1st. A standard for electric lamps, consisting of a basal receptacle communicating with a conduit, and having mounted thereon guide posts, a frame sliding upon said guide posts, and bearing the lamp elevating ropes connected with said frame, and a windlass located within the basal receptacle, substantially as and for the purposes set forth. 2nd. A standard for electric lamps, consisting of a basal receptacle communicating with a conduit, and having mounted thereon guide posts, a frame sliding upon said guide posts, and bearing the lamp elevating ropes connected with said frame, a windlass located within the basal receptacle, contact plates located upon the lamp frame, and contact springs located at the upper portion of the guide posts, said plates and springs being contained within the lamp circuit. 3rd. In a standard for electric lamps, the combination, with the guide posts and lamp sustaining frames, of the spring seated friction rollers, substantially as and for the purposes set forth. 4th. In a standard for electric lamps, the combination, with the guide posts provided at their upper portions with spring contact catches, having means, substantially as described, for retracting the same, and the frame having contact plates resting upon said spring contact catches, substantially as described. 5th. In a standard for electric lamps, the combination, with the guide posts provided at their upper portions with spring contact catches, having means, substantially as described, for retracting the same, and the frame having contact plates provided with auxiliary springs resting upon said spring contact catches, substantially as described. 6th. The combination, with an under ground conduit, of an electric lamp standard provided with a basal receptacle, a switch board located within said receptacle and connections with such switch board, substantially as described, whereby the lamp may be cut out of circuit without interrupting the line circuit, substantially as and for the purposes set forth.

No. 25,936. Wrist Pin for Steam Engines.

(Goujon pour Machines à Vapeur.)

Fred C. Chase, Lowell, Mass., U. S., 7th February, 1887; 5 years.

Claim.—1st. A wrist-pin, normally rigid in its bearings, but adapted to rotate therein under abnormal conditions. 2nd. A wrist-pin normally rigid in its bearings, but adapted to rotate therein and to sound an alarm under abnormal conditions, substantially as described. 3rd. The combination, with a wrist-pin normally rigid in its bearings, but adapted to rotate therein under abnormal conditions, of a dog carried by said wrist-pin and adapted to sound an alarm, substantially as described. 4th. The combination, with the disk having tapering aperture, of a wrist pin having tapered head inserted in said aperture and provided with adjusting nuts, substantially as and for the purpose specified. 5th. The combination, with the disk and a wrist pin normally rigid in bearings in said disk, but