

No. 4909. JAMES FLOWER, Detroit, Mich., U. S., 18th June, 1875, for 5 years: "Street Hydrant." (Borne-fontaine.)

Claim.—1st. The combination with the chamber A, of the valve C, having the part C₁, which is provided with studs *h*, for locking it with the valve E, 2nd. Providing the tapering end *b*, of the hydrant with a soft metal lining, 3rd. Providing the hydrant with a waste valve H, 4th. The loose collar N, in combination with the neck *a*, casing E, and bolts M.

No. 4910. ALONZO R. MORGAN, New York, U. S., 28th June, 1875, for 5 years: "Improvements on Stoves." (Perfectionnements aux poeles.)

Claim.—1st. The combination with the open fire box A, and expansion and combustion chamber B, of the blower D, having a register E; 2nd. A stove having an air heating chamber and a pipe for conducting air thereto from the exterior, an opening additional to said pipe for admitting the air of the interior at the same time and along with the exterior air.

No. 4911. WILLIAM C. SHOREY, Napanee, Ont., 6th July, 1875, (Extension of Patent No. 485,) for 5 years: "Improvements in Horse Hay Knives and Forks." (Perfectionnements aux élévateurs à foin.)

Claim.—The adjustable fork *d*, the connecting rod *a*, and the manner in which it is attached to the fork *d*, the manner in which the lever cam *e*, works the sliding bar C, and the hooks or claws B, and the manner in which they are worked by the sliding bar C, by the operating of the lever cam *e*, all as described.

No. 4912. SYLVANUS SPENCER, Boston, Mass., U. S., 6th July, 1875, for 5 years: "Improvements on Burial Caskets." (Perfectionnements aux cercueils.)

Claim.—In combination with the casket *a*, *b*, provided with the groove and space *c*, *e*, the roll top *d*, and swinging end pieces *c*, *e*, said end pieces being provided with the inner grooves *h*, *h*.

No. 4913. ALVIN GARDNER, Windsor, Que., 6th July, 1875, for 5 years: "Machine for Grinding or Reducing Pulp for making Paper." (Machine à triturer ou réduire la pâte à papier.)

Claim.—1st. The combination of the engine A, bevelled wheel F, and bed plate or ring H, 2nd. The combination of the knives K, K, and D, 3rd. The combination of the scraper E, with bevelled wheel F, 4th. The combination of the shaft B, and feeder R, with adjustable lever N.

No. 4914. GEORGE W. WALKER, Malden, Mass., U. S., 6th July, 1875, for 5 years: "Improvements on Portable Ranges." (Perfectionnements aux landiers portatifs.)

Claim.—1st. The combination with the range body, its oven and the damper or plate *o*, closing the end of the flue space, between the two ovens, of the flues *f*, *l*, *h*, *g*, *h*, to convey the products of combustion from the fire chamber, over the lower oven, about the elevated oven and then about the lower oven; 2nd. The combination with the range oven and the elevated oven of an oven damper for controlling the passage of heated air from one oven to the other; 3rd. The combination of the range oven with the elevated oven and its connecting pipe.

No. 4915. SAMUEL O. GREENING, Hamilton, Ont., 6th July, 1875, for 5 years: "Lightning Rod." (Paratonnerre.)

Claim.—A combination of galvanized iron wires *a*, *b*, *b*, *b*, *b*, *b*, and copper wires *c*, *c*, *c*, *c*.

No. 4916. JOSEPH F. GLIDDEN, Dekalb, Ill., U. S., 6th July, 1875, for 5 years: "Wire Fence." (Clôture en fil métallique.)

Claim.—1st. The coiled wire bar *b*, *a*, having sharp projecting points, in combination with two or more wires *b*, twisted together in such manner as to hold the bars in place; 2nd. The wires *c*, in combination with the coiled wire bars *a*, provided with projecting points, and properly secured to the longitudinal wires *c*; 3rd. A barb for a wire fence made of coiled wire having sharp projecting ends, and adapted to be placed upon and secured to one or more longitudinal wires.

No. 4917. CONRAD A. SIPE, Fairmount, W. V., U. S., 6th July, 1875, for 5 years: "Apparatus for Depositing Coffins." (Appareil à descendre les cercueils.)

Claim.—The combination in a coffin depositor of the adjustable pulley blocks A, A₁, portable frame F, and lines *b*, *b*, adjustably attached to drum D.

No. 4918. MILAN WATERBURY, Mason City, Iowa, U. S., 6th July, 1875, for 5 years: "Lamp Extinguisher." (Eteignoir à lampe.)

Claim.—The combination with a lamp burner of the hinged extinguisher cap J, a weight M, attached thereto by an arm, the link I, the rod G, having arms H, F, the ball weight A, its chain and a bracket support.

No. 4919. JOHN BELLAMY, Newtonville, Ont., 6th July, 1875, for 5 years: "Bag-holder and Truck." (Camion accroche-sac.)

Claim.—1st. The bag frame B, consisting of the two pieces B₁ and B₂, and the pieces B₃, and having the two bottom bearing faces C, and C₁, in combination with, and hinged to at *a*, *b*, the base piece A; 2nd. The sliding frame D, with lugs *d*, and ratchet bar G, in combination with the eccentric roller E, and lever E₁. 3rd. The sliding frame D, with spring pawl H, in combination with the back piece B, and notches *b*.

No. 4920. ALBERT D. WILLIAMS, Yorkville, Ont., 6th July, 1875, for 5 years: "Improvements on Dinner Pails." (Perfectionnements aux bidons à diners.)

Claim.—The combination of the dinner pail A, of any size or shape with the double bottom B, of tin and iron or tin and copper, and the lamp C, or a cup to burn oil or any other burning fluid.

No. 4921. RICHARD C. LAMBART, Quincy, Mass., U. S., 6th July, 1875, for 5 years: "Heel and Sole Trimming Machine." (Machine à polir les talons et les semelles.)

Claim.—1st. In combination with a rotary cutter for trimming the edges of boot or shoe soles or heels the gauges *j*, *j*, one or both arranged to gauge the cut of the cutters by bearing against the edge of the sole or the inner lift of the heel; 2nd. The gauges *h*, *h*, one or both arranged to gauge the cut of the cutters by bearing against the outer portion of the sole edge or the outer lift of the heel; 3rd. The two pairs of gauges *h*, *h*, and *j*, *j*, arranged to partially embrace and surround the cutters and gauge the depth of its cut by bearing upon the edges of the outer and inner lifts of the heel; 4th. The adjustable gauge bar *j*, in combination with one or more rollers or gauge wheels O, arranged to rest upon the tread surface of the heel or sole; 5th. The adjustable gauge bar *j*, and gauge wheel O, in combination with the gauges *h*, *h*; 6th. The gauges *h*, *h*, and *j*, *j*, one or more arranged to partially surround or inclose the cutter head D, and to vibrate about an axis coincident, or nearly so, with the axis of the cutter head; 7th. In combination with a rotary cutter head and its spindle, the gauge *h*, *h*, and gauge carrier *g*, provided with an annular journal surrounding the spindle, and mounted in a bearing concentric, or nearly so, with the axis of the spindle and cutter head; 8th. The combination of the gauges *h*, *h*, the gauge carrier *g*, and the bifurcated lever L, pivoted to the frame at a point coincident with the axis of the longitudinal curve of the front side of the cutters, and suitable means of adjusting the movable end thereof; 9th. The combination of the gauges *j*, *j*, the pivoted stand *i*, and the bifurcated lever M, provided with the horizontal arm M₁, and pivoted to the frame at a point coincident with the axis of the longitudinal curve of the front side of the cutters, and the screw N, for adjusting the same; 10th. The combination of the vertically adjustable gauge roll or wheel O, the jack head R, carrying the last pin m, and mounted upon a spring; 11th. The combination upon the jack of a sole or heel trimming machine of a pivoted last or heel pin constructed with a lever arm and a spring secured to the vertical standard and adapted to press against said lever arm and hold the pin in an inclined position; 12th. In combination with the jack rod P, the forked lever U, pivoted to the stand T, the pawl S, and ratchet teeth *p*, 13th. The combination of the jack rod P, forked lever U, pawl S, ratchet teeth *p*, and lever W, provided with the pin u; 14th. The combination of the jack rod P, forked lever U, springs S, and V, and the treadle lever X.

No. 4922. RALPH R. OSGOOD, Troy, N. Y., U. S., 6th July, 1875, for 5 years: "Dredging Machine." (Machine à draguer.)

Claim.—1st. The dipper handle or pole of dredging machines passed through a support or guide which has clamps capable of being extended transversely into the passage through which the pole moves for the purpose of controlling the handle or pole; 2nd. The oscillating trunnion forming a guide and support, and clamp,