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**No. 2931. GEORGE HIBBERD, Wheeling, W. Va., U. S., 10th December, 1873, for 5 years: "Improvements on Pumps." (Perfectionnements dans les pompes.)**

*Claim.*—1st. A pump for elevating water by the action of jets of steam or its equivalent, having two or more steam nozzles J, and two or more water nozzles K, arranged to operate within one and the same pipe or conduit F, G; 2nd. A pump of the general form described, having a plurality of steam nozzles J, and water nozzles K, arranged so as to convey toward a given central point in the force chamber or discharge-pipe, so as to concentrate their jets or streams; 3rd. The combination of the inlet Z, suction-chamber F, force chamber G, perforated diaphragm I, annular steam-chest H, and nozzles J, K; 4th. The flat disc I, Fig. 6, forming the water nozzles diaphragm in combination with the base section A, a, extended to support this diaphragm and to form the walls of the suction-chamber F, and to support the upper section c; 5th. The water nozzles K, Fig. 6, formed in their diaphragm I, by perforations of proper shape, in line with the steam-nozzles; 6th. A water nozzle K, Fig. 6, tapering upward to the middle or thereabouts, and from thence flaring upward.

**No. 2932. DAVID MAXWELL, Paris, Ont., 10th December, 1873, for 5 years: "Reversing, Stopping and Reducing the Motion of the Feed Rollers of Straw-cutters." (Renverser, arrêter et ralentir le mouvement des rouleaux d'alimentation des hache-paille.)**

*Claim.*—In combination with the roller shaft P, and cog-wheel Q, the arrangement of the gear shaft I, pinions J, K, double pinion L, M, lever N, spring bar v, and quadrant T.

**No. 2933. JAMES H. SMITH, London, Eng., 15th December, 1873, for 10 years: "Improvements on Shuttle Sewing Machines." (Perfectionnements aux machines à coudre à navette.)**

*Claim.*—1st. In combination with shuttle sewing machines a thread holder or hook A, so arranged and actuated as to enter the loop of the needle thread as it leaves the shuttle and to carry it to one side so that the needle in descending enters the said loop, 2nd. In shuttle sewing machines the thread holder A, operating in combination with the finger D, spring I, lever E, and cam G, for producing a looped lock stitch or chain stitch. 3rd. The lever L, operating in combination with the lever E, for throwing the thread holder in or out of action as described.

**No. 2934. EDWARD GURNEY, Toronto, Ont., 15th December, 1873, for 5 years: "Improvements on Heating Stoves." (Perfectionnements aux poêles de chauffage.)**

*Claim.*—1st. The application to the ordinary base heating arrangement of flues of an upright flue G, and connecting it with the body of the stove, in combination with the dampers I, and T,

whereby the stove can be used either as a direct acting burner, as a base burner, or as both; 2nd. The combination of the stove as described with the iron shaped water reservoir J, as set forth.

**No. 2935. JASON L. THURSTON, Douro, Ont., 15th December, 1873, for 5 years: "Elastic Corsets." (Corsets élastiques.)**

*Claim.*—The insertion of elastic webbing on each side of the corset in the part that will be worn under the shoulder blades of the wearer, the webbing either in bands or in one piece to be stitched to the material of which the corsets are made.

**No. 2936. ANGUS A. HERRIMAN, Greensborough, N. Ca., U. S., 15th December, 1873, for 5 years: "Turbine Water Wheel." (Turbine hydraulique.)**

*Claim.*—The rotary gate, B, chutes F, and hinged wing- E, combined to admit of the adjustment as described.

**No. 2937. GRENVILLE M. STEVENS, Portland, Me., U. S., 15th December, 1873, for 5 years: "Miting Machine." (Machine à onglets.)**

*Claim.*—1st. The miting machine described wherein either by the movement of a bed or table upon which the article to be cut is placed or by the movement of the cutting instrument controlled by guides the article to be operated upon may be cut at the desired angle as described; 2nd. The conjoint use of the loose rubber rolls k, for the saw guides and the rolls or trucks h<sup>1</sup>, at the bottom of the guide. 3rd. The trucks h<sup>1</sup>, h<sup>2</sup>, for the purpose of preventing the bed or table from being scorched by the cutting instrument as set forth.

**No. 2938. FRANCIS JESSOP, York, Pa., U. S., 15th December, 1873, for 5 years: "Rotary Steam Motor." (Moteur à vapeur rotatif.)**

*Claim.*—1st. The combination of the case A, with the wings C, and the hub B, on the shaft M, 2nd. The relative arrangement of the ingress and egress ports I, and II, in the case A, to the wings C, and hub B. 3rd. The arrangement of two or more steam chambers A, placed eccentrically upon the same shaft having diametrical wings C, in the hub B, placed in the same plane with each other by which a counterpoise is obtained. 4th. The wings or pistons C, in separate recesses in the hub B, and connected by a rod or rods F; 5th. The elliptical-shaped case A.

**No. 2939. NARCISSE PHANEUF, Montreal, Que., 15th December, 1873, for 5 years: "Shoe Heel Pressing and Polishing Machine." (Machine à presser et polir les talons de chaussures.)**

*Réclamation.*—1o La roue gaufrée I, avec sa chambre J, pour la chauffer. 2o La combinaison des montants B, B, de l'essieu F, de la roue de garde G, et des roues L, L', avec la roue gaufrée et la chambre I, tel que décrit.

**No. 2940. DELOS E. RICE & ANDREW W. MITCHELL, Detroit, Mich., U. S., 15th December, 1873, for 5 years: "Water Gauges for Steam Boilers." (Indicateur d'eau pour les chaudières à vapeur.)**

*Claim.*—The combination of the nipple A, flanged cap B, and glass disc C.