No. 2696. LOUIS LEBINS dit FRÈRE, Ste. Thérèse de Blamville, Que., 1st September, 1873, for 5 years: "Improvements in "Buckeye and Moodie's Mowing and Reaping Machines." (Perfectionnements aux "faucheuses-moissonneuses Buckeye et Moodie.")

Claim.—1o. La grande oreille figure 1, avec son châssis en bois A, recouvert en zinc ou autre métal B, et renforcé par la bande M; 2o. La petite oreille figure 2, avec son châssis en bois A, recouvert en zinc ou autre metal B, et renforcé par la bande M; 3o La combinaison de la fleche Q, et ses deux dents *a*, *b*, avec la scie de la faucheuse; 4o. La combinaison de la bande de garde I, avec la maille G, pour attacher la grande oreille à la faucheuse; 5o. La combinaison avec la faucheuse Buckeye de la broche mobile S, avec oeil pour écarter le grain et l'empêcher d'être mâché par la scie; 6o. La combinaison de la broche recourbée T, avec son chas U, attachée à la dernière dent O, de la scie, 7o La combinaison des oreilles figure 1, et figure 2, et des autres parties avec les faucheuses et moissonneuses Buckeye et Moodie, tel que decrit.

No. 2697. JAMES WOTHERSPOON & WILLIAM FOULIS, Glasgow, Scotland, 1st September, 1873, for 5 years: "Retort Lid and Packing." (Couvercle et garniture de cornue.)

Claim.—1st. In constructing retort lids or the mouth of retorts or both with a groove to receive packing material as described or any mere modification thereof 2nd. The arrangement and construction of apparatus for opening and closing the lids of retorts as described or any mere modification thereof; 3rd. The packing of the joints between retorts and retort lids with a packing composed of a soft metal or alloy, cement or with asbestos or amianthus in either of the modes described.

No. 2698. JAMES SPENCER, Welland, Ont., 1st September, 1873, for 5 years: "Railway Lamp Screen." (Ecran de lampe de chemin de fer.)

The object being to protect railway switch lamps from wind during the process of lighting.

Claim.—The combination of the frame B, with its aperture K, sleeve I, and window H, as set forth.

No. 2699. GEORGE SINCLAIR, Leith, Scotland, 8th September, 1873, for 5 years: "Apparatus for Boiling and Evaporating Liquids and Pulping Fibrous Substances" (Appareil pour bouillir et vaporiser les liquides et décortiquer les substances pyroligneuses.)

Claim.—1st. The general arrangement and construction of high pressure steam generator described and shown at figures 1, 2 and 3, sheet 1, of the drawings, and the employment thereof in conjunction with boilers for reducing wood, esparto, straw and other fibrous substances to pulp and for other purposes in which a high pressure of steam is required; 2nd The methods of closing the holes formed in the larger tubes of the steam generator for the purpose hereinbefore set forth, by means of conical or tapered plugs passed into their positions from the interiors of the tubes described and shewn at figures 1, 2 and 3, and more particularly at figure 3, sheet 1, of the drawings. 3rd. The employment of the conical or tapered plugs in conjunction with tubular high pressure steam generators generally; 4th. The arrangement and construction of pulping boilers described and shown at figures 1 and 3, sheet 1, of the drawings or any mere modification thereof: 5th The arrangement of evaporators described and shown on sheets 1, and 2, of the appended drawings or any mere modification thereof.

No. 2700. WILLIAM S. MEAD, New York, U. S., 8th September, 1873, (Re-issue of Patent No. 1649.) "A Sewing Machine." (Une machine à coudre.)

Claim.—1st. The combination of the bar c, provided with hook *d*, link *e*, and crank *o*, for causing the hook to travel as described; 2nd. The lever *r*, constructed as described in combination with the thumb and finger pieces *m*, and *n*, 3rd. The combination of the thumb piece *m*, and finger piece *n*, pin *q*, and spring *p*; 4th. The combination of the lever *r*, projection *t*, pin *u*, and lip *v*; 5th. The combination of the eccentrics *w*, feed plate *x*, and feed *y*; 6th. The feed plate *x*, in combination with the strap b^1, and bar d^1, 7th. The novel arrangement of the bar f^1, at the bottom of the shuttle holder; 8th The combination of the needle bar g^1, needle arm h^1, pin i^1, and washer k^1; 9th. The friction pulley m^1, guard n^1, eyes o^1, and p^1, in combination with the thread arranged as described; 10th The novel arrangement of the shuttle and shuttle case, in combination with the hook *d*, whereby the loop is held without any other device until the next is formed.

No. 2701. WALTER S. SHRAPNEL, Orillia, and HUGH KIDD, Toronto, Ont., 10th September, 1873, for 5 years: "A knife Sharpener." (Un rémouleur de couteaux.)

Claim.—1st. The combination of the wheels A, A, and washers B, B; 2nd The combination of the wheels A, A, and washers B, B, frame D, bars E, E

No. 2702. SAMUEL WRIGHT, London, Ont., 10th September, 1873, for 5 years: "A Railway Car-coupler." (Un attelage de voitures de chemin de fer.)

Claim.—The combination of the coupling pin C, with the catch D and the weight H, H, as set forth.

No. 2703. HENRY ROGERS, Chippewa, Ont., 10th September, 1873, for 5 years: "A Railway Spike." (Une chevillette de rail de chemin de fer.)

Claim.—The shoulder projecting on the sides and back of spike for the purpose described.

No. 2704. AI B. SHAW, Medford, Mass., U. S., and NATHANIEL H. SHAW, Bedford, Que., 10th September, 1873, for 5 years: "A Sewing Machine Treadle." (Une marche de machine à coudre."

Claim.—1st. A mechanism actuated by a treadle or treadles and running upon the same stud as the balance wheel when said mechanism is connected with the balance wheel by a clutch or coupling, 2nd. The pulley *m*, held in suitable position by the standard *k*, fixed to the stud *a*; 3rd The arrangement with either of the pulleys B, C, of the pawl or lever *g*, and the pads S, attached as set forth.

No. 2705. ELISHA W. HUNT, London, Ont., 10th September, 1873, for 5 years: "A Safety Lamp Tube." (Un tube de lampe de sureté.)

Claim.—The application of tube B, upper rim A, holes D, and the space for escape of gas C, for the purpose of preventing the gas entering the burner E, and making the burning of petroleum, coal oil, or any other gaseous oils safe and free from danger.

No. 2706. D'ARCY PORTER, Cleveland, Ohio, U. S., 10th September, 1873, for 5 years: "Improvements on Sewing Machines." (Perfectionnements aux machines à coudre.)

An adjustable device for operating the shuttle of a sewing machine, and it consists of a vibrating stay having an arm extending therefrom in the extreme end of which the shuttle is carried.

Claim.—1st. The reciprocating stay D, as arranged in relation to and in combination with the eccentric C, co-operating in the manner described; 2nd. The reciprocating stay E, and spindle G, *in combination with the adjustable step H, as set forth.*

No. 2707. JOSEPH BENSON & ALBERT H. WATKINS, Boston, Mass., U. S., 10th September, 1873, for 10 years: "Reservoir for Street Vapour Burner Lamp." (Réservoir de réverbere de rue.)

Claim.—A tank or reservoir E, adapted to be secured to a lantern frame; in combination with the above claim, the air space *c*, between the tank E, and its holder *a*.

No. 2708. JOSEPH BENSON & ALBERT H. WATKINS, Boston, Mass., U. S., 10th September, 1873, for 5 years; "A Gas Burner." (Un bec à gaz.)

Relates particularly to that class of vapour burners in which is employed a supplementary jet to assist the generation of vapours from the illuminating medium.

Claim.—1st. The vapour burner having the double conical shaped supplementary chamber H, communicating at its top with the mixing chamber D, by the aperture or apertures C, as described, in combination with the jet hole or holes *b*, and the cup shaped disk F, having the inwardly flaring edge *a*, and sleeve G, the several parts constructed, arranged, and operating in respect to each other as set forth, 2nd. The vapour burner having the vertical chamber or chambers *m*, communicating at its upper end with the mixing chamber D, by the aperture or apertures *n*, as described in combination with the jet hole or holes *o*, and the cup shaped disk F, having the inwardly flaring edge *a*, and sleeve G, the several parts constructed, arranged and operating in respect to each other as set forth.

No. 2709. EDWARD FLYNN, Kintore, Ont., 10th September, 1873, for 5 years: "Process for Hardening Wrought Iron." (Procédé pour durcir le fer forgé.)

Claim.—The process of hardening wrought iron by means of a coating of cast iron as described.