

No. 5192. HENRY J. YEARGIN, and WILLIAM KEITH, Liberty, Tenn., U. S., 23rd September, 1875, for 15 years: "Combined Land Roller and Harrow." (Rouleau et herse combinés.)

*Claim.*—1st. The combination of the main harrow frames A, A1, tongue B, and rear harrow frames C, C1, all hinged and arranged as set forth; 2nd. The combination of frames A, A1, tongue B, frames C, C1, hinged as shown, the extended arms d, and handles d1; 3rd. The combination in a harrow composed of sections hinged together of two independent rolls D, D1; 4th. The combination of the harrow frames A, A1, C, C1, hinged as set forth, the inclined cutting teeth G, G1, and the rolls D, D1.

No. 5193. DAVID W. RAWSON, Croydon, N. H., U. S., 24th September, 1875, for 5 years: "Clothes Washers." (Laveuse à linge.)

*Claim.*—The combination of the valve V, tube or handle B, expanded foot D, and spiral spring S.

No. 5194. JOHN McBEAN, Chicago, Ill., U. S., 25th September, 1875, for 5 years: "Improvements on Street Pavements." (Perfectionnements dans le pavage des rues.)

*Claim.*—A street pavement made of stone blocks set in rows and having the spaces between the rows filled with a composition of tar and pitch and pebble gravel or asphaltum and gypsum, or concrete, the whole being covered with a top dressing.

No. 5195. STEPHEN WEBSTER, St. Catharines, Ont., 25th September, 1875, for 5 years: "Oil Tank." (Réservoir à huile.)

*Claim.*—The application of water up and around the sides and over the top of the inside tank "No. 2," or any part of the sides or top of said inside tank "No. 2."

No. 5196. WALCOTT J. PARMLEE, Herkimer, N. Y., U. S., 25th September, 1875, for 5 years: "Art of Producing Wrought Metal Carriage Axle Boxes." (Art de faire les boîtes d'essieux de voitures en métal forgé.)

*Claim.*—1st. The shearing dies B, with the top and bottom shoulder b; 2nd. The step dies c, with the single step d, for the formation of a single step d1, in the set metal blanks C; 3rd. The bending dies E, with the semi-circular bends e, and f, for the formation of the bends e, and f, in the stepped blank C; 4th. The combination of the arbour G, the box collar H, and the open die F, by the aid of which the stepped and bent blank C, is welded into an axle box; 5th. The swaging dies J, for the swaging of the small section of the axle box; 6th. The swaging dies Q, with the depressions q, and the arbour N, for the swaging of the larger section of the skelp C; 7th. The combination of the dies J, and Q, operating separately for swaging the axle box; 8th. A sheet or plate metal axle box produced by the combined operations of shearing off a blank from a strip of sheet iron and of stepping, bending, and welding and finally swaging the same at each end separately.

No. 5197. GUSTAV KOLLMEYER, and EDWIN SCHMIDT, Hamburg, Germ., 25th September, 1875, for 5 years: "Improvements on Sewing Machines." (Perfectionnements aux machines à coudre.)

*Claim.*—1st. Giving the needle bar m, a rocking as well as a sliding motion and the mode of and mechanism for imparting such rocking motion for sewing machines applicable to button hole work; 2nd. The right and left working shuttle C, with straight shuttle race D, parallel to the driving spindle y, in a shuttle machine with one needle; 3rd. The thread brake t, in combination with the shuttle C; 4th. The feed or stitch regulator consisting of the lever l, lever z, screw t, and slot in combination with an eccentric or cam w; 5th. In sewing machine with one needle the right and left working shuttle, the straight shuttle race, rocking needle-bar, thread brake and stitch regulator all combined.

No. 5198. JARVIS HOWE, Milford, Mass., U. S., 25th September, 1875, for 5 years: "Sand Papering Machine." (Machine à papier de verre.)

*Claim.*—1st. The combination in a sand papering machine of the roll A its shafts J, and spindle D; 2nd. The expanding sand paper roll B; 3rd. The combination of a roll made tapering in the part to be covered with a sand paper tube, whose interior is likewise made tapering to correspond with that part of the roll which it is to cover; 4th. The sand paper tube consisting of a tube of paper or equivalent material covered with a coating of sand or equivalent material; 5th. The roll A, composed of spindle t, washers u, v, wires y, and bends W, W1; 6th. In a sand papering machine, the roll c, with a bearing at only one end.

No. 5199. JOHN D. IMBODEN, Richmond, Va., U. S., 25th September, 1875, for 5 years: "Car Axle Lubricator." (Graisseur d'essieu de wagons.)

*Claim.*—1st. The detachable spring frame B, for the purpose of holding a lubricating fabric pressed against a car axle journal; 2nd. The leather, rubber or felt shield or cushion to protect the webbing from abrasion and wear at the points of contact with the journal.

No. 5200. HERMAN F. EBERTS, Detroit, Mich., U. S., 25th September, 1875, for 5 years: "Improvements on Wheel-fenders for Vehicles." (Perfectionnements aux garde-crottes des roues de voitures.)

*Claim.*—The sheet metal wheel fender A, having its edges turned or rolled around a wire strengthening frame B.

No. 5201. ARMAND H. B. BLANCHARD, Montreal, Que., 25th September, 1875, for 5 years: "Improvements on Cloth Measures." (Perfectionnements aux mesures de drap.)

*Résumé.*—1o. La combinaison de la verge A, et du couteau N; 2o. La combinaison de la verge A, et du porte-cravate E, K, L; 3o. Le système accenseur de latige H, dans le cylindre I; 4o. La combinaison des tiges C, C, glissant dans les croissants D, D, permettant d'avancer et de reculer la verge à volonté.

*Claim.*—1st. The combination of the rod A and the knife N; 2nd. The combination of the rod A, and of the cravat holder E, K, L; 3rd. The hoisting gear of the rod H, in the cylinder I; 4th. The combination of the rods C, C, sliding in the crescents D, D, permitting the rod to slide backward and forward at will.

No. 5202. MICHEL DURAND, Montreal, Que., 25th September, 1875, for 5 years: "Fire Escape." (Appareil de sauvetage en cas d'incendie.)

*Résumé.*—1o. L'arrêt à échelons et à ressort-taquet I, avec ses communications g, h, communiquant aux lanchnes t, j, et à la poignée d, alarme W; 2o. Le système d'alarme au moyen de la roue H, et de la lanchnette K, communiquant à la cloche d'alarme Q; 3o. Le frein L; 4o. Le barreau d'embarcation R, avec ses chaînes d'embarcation s, et la grande chaîne T.

*Claim.*—1st. The tumbler with steps and spring and cleat I, with its communications g, h, with the latches t, j, and the alarm knob W; 2nd. The alarm system by means of the wheel H, and of the latch K, communicating with the alarm bell Q; 3rd. The brake L; 4th. Entrance bar R, with escape chains s, and the large chain T.

No. 5203. GEORGE W. COOK, and EDWARD H. HORSFEL, Chicago, Ill., U. S., 25th September, 1875, for 5 years: "Improvements on Car-trucks." (Perfectionnements aux trains des wagons.)

*Claim.*—The roller C1, having flange a, journalled in elongated bearing in a frame A1, attached to the car truck, on each side of the car wheels or intermediately in their path.

No. 5204. WILLIAM W. LAMBIE, and JAMES LAMBIE, St. Marys, Ont., 25th September, 1875, for 5 years: "Improvements on Fanning Mills." (Perfectionnements aux tarrares-cribleurs.)

*Claim.*—1st. The sieve A, having all its holes of the same size but cut for the set apart on the upper portion and gradually coming near together as they approach the lower end; 2nd. The sieve supports F jointed to the head board at B, the vertically adjustable board G, with the fastening bolts K, and the shaker.

No. 5205. SAMUEL S. RYCKMAN (Assignee of P. Mutter), Hamilton, Ont., 15th September, 1875, for 5 years: "Lamp Chimney Cleaner." (Nettoyeur de cheminées de lampes.)

*Claim.*—1st. The combination of the rubber disc B, or its equivalent with the handle A, attached by rivets C; 2nd. The small disc F, in combination with the handle for cleaning small chimneys.

No. 5206. NORRIS D. MARTIN, and GILMAN W. SEAVER (Assignees of W. Hodgdon), North Troy, Vt., U. S., 25th September, 1875, for 5 years: "Milk Cooler." (Rafraichissoir à lait.)

*Claim.*—1st. The combination of the overflow pipe E, and exhaust pipe F, having stop cock J, with the vat D; 2nd. Providing the pan C