

No. 4467. WILLIAM R. WAGNER, Syracuse, N. Y., U. S., 6th March, 1875, for 5 years: "Improvements in Churns." (Perfectionnements aux barattes.)

*Claim.*—1st. A barrel churn A, the inside of uniform and the outside of graduated diameter, as set forth; 2nd. The cover C, having peripheral chamber b, to set within and project over the rim of the churn A, as set forth; 3rd. The dasher head D, having upper and lower stops a, a', as set forth.

No. 4468. KENNARD KNOTT, London, Ont., 6th March, 1875, for 5 years: "Method of Slaughtering, Preparing and Packing Meat for Exportation." (Méthode d'abattage et de préparation et d'empaquetage de la viande pour l'exportation.)

*Claim.*—1st. The combination of the drop door F, half doors D, F, actuated by handles r, s, and controlled by eccentrics e, e', and the movable floor G, controlled by spring a, as described; 2nd. The car I, tramway D, friction rollers G, G', and shaft G, as set forth; 3rd. The car I, chain and lever L, shaft J, winch J', and shaft K, as set forth; 4th. The wheel hooks L, tramways L', circular saw M, and balance frame M', with shaft J, as set forth; 5th. The box N, lifting gear N', car O, and tramway O', as set forth; 6th. The collecting car P, operated by crank and driving wheel P', and furnished with corresponding trams P', as set forth; 7th. The freezing boxes Q, with tramways Q', openings Q, and Q', as set forth; 8th. The shaft drum R, casing R', endless chains S, shelves S', wheels S'', and pulley R', as set forth; 9th. Collector T, constructed and arranged to operate in combination with the elevator; 10th. The carrier T', when constructed as described, with endless chains T, revolving shafts or drums T, in combination with and operated by a tooth wheel T', engaging with chains S, of elevator as set forth; 11th. The winch Y, chain Y', and pulley V', in combination with the carrier T', as set forth; 12th. The iron uprights W, bearers W', shelves W'', iron rods W, wheel frames and pulleys W, and hooks W', as described; 13th. The process of converting the hold of a vessel into an ice packing box by means of ice arranged along the top and sides X, and ventilating by apertures X', and excluding the outside temperature by means of a packing of saw dust or bark Y, as described; 14th. The box Y, constructed with chambers or vats Y', circulating channels Y', rocker Z, screw caps Z', tap Z'', and hose pipe Y'', as set forth; 15th. The combination of the box Y, and hose pipe Y'', with a packing of ice round the sides and top of vessel arranged as set forth.

No. 4469. CALIB T. CLEVELAND, Oldtown, Me., U. S., 6th March, 1875, for 5 years: "Joint for Furniture, &c." (Joint de meuble, &c.)

*Claim.*—The device for uniting the corners of furniture, &c., to wit, the angle-iron a, provided with the groove b, and angle or wedge-iron d, having a corresponding flange c, fitting said groove, their sides when united forming sockets to receive the side pieces of the article, as set forth.

No. 4470. LOUIS CÔTE, St. Hyacinthe, Que., 10th March, 1875, (Extension of Patent No. 526), for 5 years: "Machine for Trimming and Finishing Boot and Shoe Soles." (Machine à parer et polir les semelles de chaussures.)

*Claim.*—1st. The novel combination of the cross bar C, pivot C', rack C'', pivot d, eye d', handle d'', pivot e, curved link f, eye f', spindle end of knife g, knife g', handle g'', guide h, slotted hole h', screw h'', spring i, heel plate k, screw k', die l, holder l', projection m, n; 2nd. The novel combination of the knife a', handle a'', pivot d, eye d', pivot e, curved link f, eye f', spindle end of knife g, handle g', guide h, and spring e; 3rd. The novel combination of the general heel plate holder k, pivot d, heel plate l', and screw k'; 4th. The novel combination of the sole trimming knife in its die l, holder l', and projections m, n.

No. 4471. LOUIS CÔTÉ, St. Hyacinthe, Que., 10th March, 1875, (Extension of Patent No. 526), for 5 years: "Machine for Trimming and Finishing Boot and Shoe Soles." (Machine à parer et polir les semelles de chaussures.)

No. 4472. THOMAS S. ELLIOTT, Guelph, Ont., 10th March, 1875, for 5 years: "Washing Machine." (Machine à laver.)

*Claim.*—1st. The combination of the corner pieces B B B, the ribs a, a', a'', &c., and the pins C, C', C'', as set forth; 2nd. The combination with the corners B, B', B'', the ribs a, a', a'', &c., and the pins C, C', C'', of the wheels E, F, and the pin K, as described.

No. 4473. ROBERT H. HUDGIN, Whitby, Ont., 10th March, 1875, for 5 years: "Improvements on Gates." (Perfectionnement des barrières.)

*Claim.*—1st. The combination of the arms B, B', and the head-block C; 2nd. The combination of the head-block, together with the iron pintle, as set forth.

No. 4474. RUFUS N. MERIAM, Worcester, Mass., U. S., 10th March, 1875, for 5 years: "Expansive Gear for Feed Rolls of Wood Planers and other Machines." (Engrenage à détente pour les rouleaux d'alimentation des machines à raboter le bois et autres.)

*Claim.*—1st. The coupling-bar N, and slotted support M, in combination with the fixed stud K, and vibrating stud L, their gear wheels a, b, the gear of the rolls A, B, as described; 2nd. The double wheel I, mounted on a fixed stud and the gear wheel J, on a vibrating stud, in combination with the gear wheels G, H, rolls A, B, coupling bar N, and slotted support M, as described.

No. 4475. JOHN H. STONE, Hamilton, Ont., 10th March, 1875, for 5 years: "Improvements in Bottoms of Milk Cans." (Perfectionnements dans les fonds des bidons à lait.)

*Claim.*—1st. The hoop or band B, in combination with the bottom A, as specified; 2nd. The ring or band C, of wire rod or heavy iron, in combination with the band B, and bottom A, as specified.

No. 4476. JOSEPH B. McCUNE and RICHARD M. WANZER, Hamilton, Ont., 10th March, 1875, for 5 years: "Ramming and Moulding Machine for Metal Castings." (Machine à damer et mouler la fonte métallique.)

*Claim.*—1st. The combination of a ramming and moulding machine for metal castings wherein the flask is lifted upwards against the rammer for pressing the sand and the pattern drawn downwards out of the sand in the flask, as specified; 2nd. The upright rod L and swinging bracket O, and collars a, a', in combination with the sliding frame C, C', as specified; 3rd. The arrangement and construction of the movable top-plate E, as specified; 4th. The arrangement of the latches P, P', for securing the plate E, to the uprights D, D', as specified; 5th. The arrangement and combination of the grooved standards B, B', sliding frame C, C', with the rods R, R', projecting points o, b, rocker bar Q, operated by lever S, as specified.

No. 4477. JOHN S. ROOD, Waterbury, Ct., U. S., (Assignee of G. W. Eddy), 10th March, 1875, for 5 years: "Sewing Machine Castor." (Roulette de machine à coudre.)

*Claim.*—The operating lever i, rock shaft h, connecting rods a, a', four castors g, g', g'', g'', arms f, f', pivoted to the front table legs through the medium of the clamps and the arms h, h', pivoted to the rear table legs through the rock shaft, as described.

No. 4478. ENOS WRIGHT and JOHN J. KREIBEL, Denmark, Iowa, U. S., 10th March, 1875, for 15 years: "Carriage Spring." (Resort de voiture.)

*Claim.*—1st. The combination of the spring bars C, and C', with the bearer B, as described; 2nd. The cap A, provided with the lugs c, c', in combination with the bearer B, spring bars C, and C', and holding irons H, H', as set forth; 3rd. The attachment block X, provided with the plate F, in combination with the cap A, as set forth.

No. 4479. JOHN HODGSON, Toronto, Ont., 10th March, 1875, for 5 years: "Apparatus for Consuming Smoke from Steam Boilers and other Furnaces." (Appareil fumivore pour les fourneaux de chaudières à vapeur et autres.)

*Claim.*—1st. The introduction of steam from the steam boiler A, or from the exhaust pipe of the engine into the back part of the fire chamber D; 2nd. The combination of the boiler A, with the steam pipe C, valve B, and perforated end C'. 3rd. The door F, with tube E, in combination with the perforated pipe C, and air-space K. 4th. The branch pipes c, c', with apertures for the purpose of introducing steam into the back of the fire chamber D, as specified.