

No. 5140. CHARLES J. ADDY, and ESSEX S. ABBOTT, Boston, Mass., U. S. 7th September, 1875, for 5 years: "Improvement in Sole Edge Trimming Machines." (Perfectionnement des machines à polir la tranche des semelles.)

*Claim.*—1st. The combination of the vibrating cutter E, with the cutting block and rand guide F, acting together; 2nd. The combination of the knife E, the cutting block F, and the movable guide H, K.

No. 5141. JOHN DILDINE, Limestoneville, Pa., U. S., 7th September, 1875, for 5 years: "Animal Trap." (Piège à vermine.)

*Claim.*—1st. The flanged apron pivoted within the compartment E, of the trap in an inclined position with its upper end against the end of such compartments and its lower end extending over the trap door; 2nd. The catch pivoted in and extending upward through the inclined partition, so that its upper end shall bear against the front of the latter, and its lower end engage with the trap door in rear of the apron; 3rd. The bait hook Q, and hook rod R, combined with the catch bar and inclined apron; 4th. The guide loop P, combined with the inclined apron and catch bar; 5th. The combination of the inclined pivoted apron, the pivoted spring catch, the hinged bait strip and the connecting rod, with each other and with the trap door; 6th. The front wires of the partition terminating at their lower ends, a short distance above the bottom board of the trap.

No. 5142. STEPHEN STRUNZ, Pittsburgh, Pa., U. S., 7th September, 1875, for 5 years: "Manufacture of Soap." (Fabrication du savon.)

*Claim.*—1st. The employment of litmus in combination with ordinary soap compounds as specified, whereby under the influence of the alkali and oxygen of the air, the natural colour of the soap is rapidly changed upon its exposed surface; 2nd. The process of manufacturing ornamental soaps, with various designs embodied therein, by forming said designs of coloured soap compounds and casting or moulding a body of soap around the same; 3rd. The process of manufacturing ornamental soaps, by printing, transferring or otherwise producing ornamental designs within the body of transparent soaps; 4th. A translucent soap composed of the ordinary soap compounds, combined with litmus; 5th. A soap having an ornamental design or advertisement incorporated in the same.

No. 5143. JACOB RUSSELL, New-York, U. S., 7th September, 1875, for 5 years: "Horse Shoe Machine." (Machine à fers à cheval.)

*Claim.*—1st. The sliding former m, in combination with roller F constructed and arranged for operation in connection with expansible dies; 2nd. The expansible horse shoe die, actuated by devices giving it a positive movement, made in two halves, and arranged upon a rotary support; 3rd. The under bowl n, provided to the inner walls of the two halves of the positively moving expansible die; 4th. A horse shoe machine having the divided positively moving die, the combination of the toggle lever a, having the cam O, and operating the sliding former m, with the roller F, spring r, and stop M; 5th. The combination of the roller F, male die j, sliding former m, stop M, roller F, positively moving expansible dies S, roller P, die W, and side rollers h, h, or levers L, I, 6th. A horse shoe machine constructed with a positively operative expansible die, the combination of the cutting and swaging bars J, A, with a suitably arranged feeding device; 7th. The combination of the plates D, and the friction rollers x with an expansible die.

No. 5144. PAUL K. DEALY, Saint John, N. B., 7th September, 1875, for 5 years: "Improvements on Locomotive Engines." (Perfectionnements aux machines locomotives.)

*Claim.*—1st. The combination and arrangement of the water pipe D, and steam pipe E, and attaching same together with the cross pipes on D, and E, respectively with the arranging of the nozzles on each cross pipe so as to allow the steam or water to escape; 2nd. The method of heating the ash-pan and dampers of locomotives so as to prevent snow and ice accumulating around the ash pan damper; 3rd. The mode of cleaning the ash-pan of locomotives of ashes; 4th. Preventing a too great accumulation of clinker on the furnace bars by the use of the steam to create a draft; 5th. Preventing fires along the line of railroad by the dampening of the ashes by steam and water as the ashes fall from the furnace bars.

No. 5145. LORRAIN C. WHITING, East-Saginaw, Mich., U. S., 7th September, 1875, for 5 years: "Piano Pedal Attachment." (Ajutage des pédales de pianos.)

*Claim.*—The combination of the base block C, with the foot rest D, pivoted thereto, to be fastened or adjusted to the piano by the modes indicated or other convenient mode.

No. 5146. JOHN D. SMEDLEY, Syracuse, N. Y., U. S., 7th September, 1875, for 10 years: "Improvements on Cooking Stoves." (Perfectionnements aux fourneaux de cuisines.)

*Claim.*—1st. The chamber B, C, D, furnished with hinged or sliding doors E, F, to adapt it to be applied to the top of a cooking stove; 2nd. The combination of the rack H, and doors G, with the top D of the chamber; 3rd. The combination of the shelves J, with the back and stationary sides of the chamber; 4th. The combination of the shelf P, and brackets Q, with the top D, of the chamber; 5th. The combination of the pipe L, provided with a damper M, with the top D, of the chamber, and with the pipe K, of the stove; 6th. The combination of the branch pipe N, provided with a damper or register O, with the pipe L, leading from the top D, of the chamber to the stove pipe K.

No. 5147. JAMES HALL, Toronto, Ont., 8th September, 1875, for 5 years: "Improvements in Revolving Reel Baking Ovens." (Perfectionnements aux fours à cylindre roulant.)

*Claim.*—1st. The relative arrangement of reel driving wheel J, worm I, and floor B, 2nd. In combination with the pan G, and arms of the reel C, the stud bolt nuts p, q; 3rd. In combination with the grate bars D, the perforations d, and flues O, O; 4th. A baking oven having covered top a, and curved back a'.

No. 5148. GEORGE H. JONES, Rose, N. Y., U. S., 8th September, 1875, for 5 years: "Mould for Casting Turbines." (Moule pour couler les Turbines.)

*Claim.*—1st. The water wheel pattern consisting of the sections D, provided with grooves d, the hub E, and ring c; 2nd. The partition plates F.

No. 5149. RUSSELL WHEELER, Belle Ewart, Ont., 8th September, 1875, for 5 years: "Improvements on Stove Legs." (Perfectionnements aux pieds de poeles.)

*Claim.*—A stove leg constructed of two parts A, and B, the upper portion A, having a socket B, with a screw or thread c, thereon and the lower portion D, with a stem E, on which is a screw or thread C, the stem E, and socket B, corresponding with each other, so that the stem E, will move freely in the socket B.

No. 5150. PHILIPPE ST. LAURENT, and ETIENNE BERUBÉ, Sherbrooke, Que., 8th September, 1875, for 5 years: "Improvement on Stove-Heaters." (Perfectionnement des poeles-sourds.)

*Claim.*—The outer cylinder A, and the second cylinder B, with the draught holes d, d, also the smoke pipe C, and the air-hole F, with the damper E.

No. 5151. WILLIAM A. MCCLINTOCK, Pittsfield, Ill., U. S., 5th September, 1875, for 5 years: "Improvements on Seed Drills." (Perfectionnements aux semoirs-traceurs.)

*Claim.*—The combination of the hoes F, drag-bars G, guides I, I, sash K, and lever L.

No. 5152. CORNELIUS HOOD, Hartford, Ct., U. S., 8th September, 1875, for 5 years: "Combined Ladder and Wash Bench." (Echelle et banc de buanderie combinés.)

*Claim.*—The combination of the ladder frame a, a', a'', the supporting frame b, b', b'', hinged thereto, and the sets of legs c, c', d, d', pivoted to the latter, and having tenoned ends shutting into mortises in the former.