

flames; 2nd. In the manufacture of fire-kindlings, a block constructed with a series of fins or partitions to form air-passages or draft flues; 3rd. The combination in fire-kindlings of a block possessing a head or body, provided with a series of partitions and a series of air passages or draft flues, saturated or impregnated with a suitable inflammable material or agent; 4th. A block of suitable material constructed with draft flues, or partitions varying in size for admitting draft into or through the block to intensify the heat, and secure gradual combustion and rapid ignition of the kindling; 5th. The combination of an igniting wick with a fire kindler, constructed of a block of suitable material, having a series of draft flues for admitting draft into or through the block.

No. 4751. MONA LESSER, Montreal, Que., 19th May, 1875, for 5 years: "Improvement on the Manufacture of Cigars." (Perfectionnement dans la fabrication des cigares.)

Claim.—1st. The process of forming or shaping the pointed end in a heated mould; 2nd. A mould for forming the pointed end of a cigar, having a conical or other shaped recess B.

No. 4752. LOUIS J. HERARD, Montreal, Que., 19th May, 1875, for 5 years: "Cooking Stove." (Poêle de cuisine.)

Claim.—1st. The introduction of the double bridge i; 2nd. The introduction of a sheet iron oven b, instead of cast iron as in ordinary stoves, thereby reducing the cost and facilitating the repairs of such ovens.

No. 4753. FREDERICK J. DAVIS, Newport, Vt. U. S., 19th May, 1875, for 5 years: "Block Lock Shoe Last." (Etrenite de forme de chaussures.)

Claim.—In combination with the last A, and block B the spring C, pin F, spring G, and tumbler D, provided with the hook E.

No. 4754. PHILO W. HART, Camden, N. Y., U. S., 19th May, 1875, for 5 years: "Lath Machine." (Machine à lat e.)

Claim.—The combination of the cap E, spring F, cap-bearing i, of the upper roller-shaft and the screw-bolt J, whereby the said screw and spring secure both the cap and the cap-bearing; the table or bed-plate B, attached to the frame A, by bolts working in slots C, so that it may be vertically adjusted, and having the elongated slot e, and openings g; in combination with the right angled gauge-plate D, having the lug d, adapted to the slot e, and the pins f, adapted to the holes g, in the adjustable guide-table; the yoke H, extending transversely across the frame A, and having at each end a standard I, in which the feed-rollers have their bearings, said yoke being adjustably attached to the frame, whereby the feed rollers can be caused to revolve in a plane parallel to the planes of revolution of the saws, or obliquely thereto.

No. 4755. ARTHUR TRACY, Pickering, Ont., 19th May, 1875, for 5 years: "Horse-power." (Manège pour un cheval.)

Claim.—1st. The mode in which the spur-wheels D, D, act on the central pinion E; 2nd. The combination with the square pinion E, and spur-wheels D, D, the two bull-pinions and the driving-wheel B.

No. 4756. ALFRED B. SHERATON, Saint-John, N. B., 19th May, 1875, for 10 years: "Machine for Cleaning and Beating Carpets and other Fabrics." (Machine à nettoyer et battre les tapis et autres tissus.)

Claim.—The combination of the chains and the cylinder, the application of the cone pulleys to suit the various qualities of carpet, the covering of the chains with rubber-tubing and leather straps beneath, to prevent injury to the carpet.

No. 4757. PERCIVAL N. RUGG, Compton, Que., 19th May, 1875 for 5 years: "Wash Bench." (Banc de buanderie.)

Claim.—The iron grooves having a circular formation A, A, and B, the soap-holder and its stem F, also the return piece C.

No. 4758. JOHN D. LAWLOR, Montreal, Que., 19th May, 1875, for 5 years: "Washing Machine." (Machine à laver.)

Claim.—1st. The rectangular-box A, and the combination of adjustable sides A, and the inclined or vertical wash boards C, and C'; 2nd. The roller or cylinder B, when taken in combination with the spring-rod m, and regulating spring m'; 3rd. The roller B, and its regulating connections, when taken in combination with the flexible concave wash board E, and the spring-rod n.

No. 4759. JOHN AIKMAN, North Norwich, Ont., 19th May, 1875, for 5 years: "Improvements in Hinges." (Perfectionnements dans les pentures.)

Claim.—The combination and arrangement of the several parts, namely: the lever F, working in the hinge on the pivot E, and fitting through the stile of the blind B, in connection with the holder L (or its equivalent) the slot H, in the lower part of hinge C, in connection with the lever F, and the shoulder i.

No. 4760. MONA LESSER, Montreal, Que., 19th May, 1875, for 5 years: "Improvements on Cigars." (Perfectionnements des cigares.)

Claim.—A cigar having an indentation B, at the inhaling end.

No. 4761. DAVID W. DAVIS and SAMUEL H. DAVIS, Detroit, Mich., U. S. 19th May, 1875, for 5 years: "Art of preparing Fish for Market." (Art de préparer le poisson pour le marché.)

Claim.—1st. The mode of preparing fish for transportation and market by freezing them into cakes suitable to be packed in cases or other packages; 2nd. An improved method of preparing fish for market in the series of cakes B, of frozen fish, arranged as to size and height to completely fill the barrel or package C.

No. 4762. GEORGE W. HOWELL, Covington, Ky., U. S., (Co-Inventor with and Assignee of C. P. HOWELL,) 19th May, 1875, for 5 years: "Metal Creasing Machine." (Machine à plisser le métal.)

Claim.—1st. The former d, having an axle bearing on the end of the driving-shaft D, with which it revolves concentrically while both revolve concentrically to the metal-blank, in combination with suitable mechanism for holding semi-circular sheets of metal while the same are being creased; 2nd. The linked jaws g, g', arranged to move out two centres, in combination with suitable mechanism for creasing semi-circular sheets of metal between their surfaces; 3rd. The combination of plates E, E', jaws g, g', and former d, adapted to form curves and creases in sheet metal for pipe-elbows; 4th. Jaws g, g', in combination with the pulleys and levers h, h' for operating the same automatically; 5th. Plates E, E', in combination with the pulleys, crank and rods described, for automatically operating the same; 6th. The nose cam J, in combination with carriage K, pawl h, and ratchet H, 7th. In a pipe elbow metal-creasing-machine, the yoke G, having two hinged semi-circular leaves b, b', adapted to embrace the metal blank on its inner and outer peripheries, and thereby preserve its circularity while feeding it into the machine; 8th. In a pipe elbow-creasing-machine, the shift-shifter n, m, m', in combination with the yoke G, and the described feeding devices, whereby the metal blank is automatically released from the further action of the former at the instant the desired number of creases are formed.

No. 4763. THOMAS WARREN, Flint, Mich., U. S., 19th May, 1875, for 5 years: "Improvements on Stop Motion for Steam Engine Governors." (Perfectionnements au mouvement d'arrêt des gouverneurs des machines à vapeur.)

Claim.—1st. The L-shaped sleeve C, C', forming bearings for the head D, and the shaft G, and the collar I, in combination with the frame B, and bracket B'; 2nd. The combination with the shaft G, of the countershaft P, suspended by the radius arms O, from the shaft N.

No. 4764. JOHN WILSON and RICHARD BOWKER, Toronto, Ont., 19th May, 1875, for 5 years: "Machine for the Clipping of Horses and Sheep." (Machine à tondre les chevaux et les moutons.)

Claim.—1st. The configuration of the comb a, and knife b, in the device N; 2nd. The adjustable-post K, in combination with the countershaft G, guides Q, Q, and spiral-spring O; 3rd. The combination of the adjustable post K, with the mandrel I, pulley I', universal joint-couplings J, J, and A, A, and the rods L, M; 4th. The combination of the various parts of the device N, namely: The comb a, knife b, pinion c, wheel d, the under plate e, the upper plate f, universal-joint-coupling h, and handle g, 5th. The combination with the device N, of any suitable motive-power, for giving motion to the same by the mechanism specified.