

**Producing Caricature Photographic Pictures.**  
(Procédé pour faire des caricatures photographiques.)

*Claim.*—The process of producing caricature photographic pictures by first having the same drawn or sketched on card-board or other inflexible material, and then having the board held or placed in front of the object to be photographed, arranged so as to present a complete, although disproportioned figure on the negative for the purposes described.

No. 4011. ANTHONY GOTH, and CLARENCE A. WOLLE, Bethlehem, Pa., U. S., 7th November, 1874, for 5 years: "Machine for Coating Paper with Oil Colours." (Machine à enduire le papier de couleurs à l'huile.)

*Claim.*—1st. The combination of a series of adjustable rollers for carrying the paper, and a roller for coating it with its oil colouring matter with the stirring tank H, provided with a rotary stirrer O, the adjustable smoothing bar R, provided with a cushion roller S, and the drying drum U, all operating as a single process in the manner specified; 2nd. The rotary stirrer O, in combination with the stirring tank H, and the coating roller N, operating to stir the colour and flow it against the roller in the manner specified; 3rd. The adjustable smoothing bar R, in combination with the cushion roller S, resting upon it and operating to adjust the tension of the paper and perfect the smoothing process as specified.

No. 4012. JAMES AUTHORS and WILLIAM F. MUNRO, Toronto, Ont., 7th November, 1874, for 5 years: "A Screw." (Une vis.)

*Claim.*—The hollowing of the head B, of the screw nail A, in the accompanying drawings.

No. 4013. AUSTIN D. CABLE, Montreal, Que., and OLIVER B. HOWARD, Portland, Me., U. S., 7th November, 1874, for 5 years: "Rack and Safe." (Garde-manger.)

*Claim.*—1st. The combination of the standard b, sockets c, and surfaces d; 2nd. The combination of the standard b, sockets c, surfaces d, with cover e, as set forth.

No. 4014. FREDERICK S. BARNJUM, Montreal, Que., 7th November, 1874, for 5 years: "Trowsers Stretcher." (Machine à étirer les pantalons.)

*Claim.*—1st. The combination of the frame or board a, with clasps b, and g, constructed and operating as set forth; 2nd. The combination of board a, clasps b, and g, link or other connection l, lever m, and rack o, constructed and operating as set forth.

No. 4015. CHARLES A. HUSSEY, New York, U. S., 7th November, 1874, for 15 years: "Railway Axle Box." (Boite d'essieu de railroute.)

*Claim.*—The interposition of leather or other flexible or yielding material between the wheel hub and axle box so arranged as to make tight joints for excluding dust and retaining the lubricating oil and allowing the axle to vibrate; the flanges G, H, rings I, and K, and faced ring J, arranged in combination with the leather or other packing E, the springs L, or their equivalents, in combination with the ring J, as described.

No. 4016. GEORGE WOODS, Cambridgeport, Mass., U. S., 7th November, 1874, for 5 years: "Process for Drying Lumber." (Procédé de séchage du bois.)

*Claim.*—The process for drying lumber, etc., consisting in forcing water through a receptacle in the heated drying chamber, on the surface of which receptacle the moisture from the lumber, etc., is condensed and conducted from the drying room in the manner set forth.

No. 4017. KENNETH MCKENZIE, Hamilton, Ont., 7th November, 1874, for 5 years: "Revolving Oven Cooking Stove." (Poele de cuisine à fourneau tournant.)

*Claim.*—1st. The plate B, revolving on a central pivot or shaft within the oven A, of a stove; 2nd. The combination of the revolving plate B, to turn within the oven A, a central shaft C, endless-screw G, on a shaft within the smoke pipe and cog-wheels D, E, or suitable gear for rotating the plate B, by the draft current within the stove pipe, as described.

No. 4018. LYMAN B. STILSON, Minneapolis, Minn., U. S., 7th November, 1874, for 5 years: "Safety Car-shoe." (Sabot de sureté pour les wagons.)

*Claim.*—The supporting-timbers D, in combination with the springs E, and shoes A, as specified.

No. 4019. KENNETH MCKENZIE, Hamilton, Ont., 7th November, 1874, for 5 years: "Sheet Pattern Cutting Block." (Bloc pour découper des feuilles de patrons.)

*Claim.*—A pattern cutter composed of flat blocks shaped edge-wise to pattern, and receiving along such edges, rule edge knives B, the whole locked together solidly in a chase C, to be used as set forth.

No. 4020. CHARLES ROMMEL, Elizabeth, N. J., U. S., 7th November, 1874, for 15 years: "Polychromatic Printing Machine." (Machine à impression polychromatique.)

*Claim.*—1st. The prismatic printing roller B, suspended from the shaft b, to receive vertical motion and connected with wheel m, for receiving intermittent rotary motion; 2nd. The printing roller B, having racks g, at one thereof to guide colouring rollers; 3rd. The spider frame D, having arms h, with slots i, and side ratchet wheels g; 4th. The combination of spider frame D, with pawls f, arms e, eccentrics e, and shafts b, to produce intermittent rotary motion of frame D; 5th. The connection of lever O, and leg p, of printing roller B, with pawl f, to keep spider frame D, at rest for passage of finishing block; 6th. The colouring rollers C, having mutilated pinions r, and weighted colour boxes q; 7th. The weighted colour boxes q, provided with vertical partitions for using different colours on one block and with guard s, for preventing upsetting when passing along printing blocks; 8th. The combination of colouring rollers C, with segmental guides l, straight pieces m, and springs n, of frame A, for guiding the rollers over printing block B; 9th. The table motion produced by eccentrics u, pawls t, ratchets u, u, in combination with cloth rollers F, F, and moveable frame G; 10th. The loose ratchet u, having deep notch so that pawl t, gears with tight ratchet u, after every full rotation of printing roller B; 11th. The eccentric cylinders H, and H, and guiding clamp levers v, and v, in connection with ratchet wheels u, and u, pawls w, frame and printing bed E; 12th. The loose ratchet u, having two deep notches to produce the consecutive engaging of pawl w, into tight ratchet u; 13th. The combination of the printing roller B, spider frame D, the table motion side eccentrics H, H, with clamp levers v, v, and intermediate parts with frame A, forming the polychromatic printing machine as described.

No. 4021. JOHN NEY, Jr., ELLICE and AARON ELY, Downie, Ont., 7th November, 1874, for 10 years: "Machine for the Catching of Potato-bugs." (Machine pour prendre les pucerons à patates.)

*Claim.*—1st. The combination of the cross-shaft S, and the wings or fans F, F, in such a manner as to produce simultaneous action on each side of the machine towards the centre of the frame A; 2nd. The combination of the cross-shaft S, and the driving wheel B, so as to obtain the necessary motive power.

No. 4022. THOMAS E. ROBERTS, Ionia, Mich., U. S., 7th November, 1874, for 5 years: "Spark Arrester and Consumer." (Arrête-flammèches pour les consumer.)

*Claim.*—The dome at the top of the smoke pipe, the lining in the upper portion of the pipe, and a conductor or conductors extending down the pipe, through the smoke arch and connecting with some of the boiler flues, all combined with a locomotive in the manner described for returning smoke and cinders to the furnace; the partition I, in the dome A, in combination with partitions F, in space L, and the conductor H, as specified.

No. 4023. JAMES TOMLINSON, Goderich, Ont., 7th November, 1874, for 5 years: "A Barrel." (Un baril.)

*Claim.*—1st. The combination of the exterior sheathing A, and the interior sheathing B; 2nd. The combination of the metallic sheet C, with the sheathings A, and B; 3rd. The use of plain sheets of wood steamed and bent in cylindrical or part cylindrical form as substitute for staves in the making of barrels.

No. 4024. GEORGE L. ANDERS, Boston, Mass., U. S., 7th November, 1874, for 5 years: "Printing Telegraph Instrument." (Appareil de télégraphie imprimant.)