

arranged to be housed in the runlet D; 4th. The standard C, provided with slots or recesses into which the arms E, F, may be folded; 5th. The arm F, in combination with the ball G, attached by a chain to the arm E, said arm F operating to prevent the chain from being carried too far from the player, as shown. 6th. The runlet I, for catching and returning the balls to the player, as specified.

No. 4258. RICHARD PATTON, (Assignee of J. M. MAHARG,) Montreal, Que., 14th January, 1875, for 5 years: "Steam Trap." (Trappe de vapeur.)

*Claim.*—The vessel A, lever D, and counterbalance E, in combination with valve a, operated by cross-head c and fork head f as set forth.

No. 4259. GEORGE M. BRIGHT and FRANCIS BARRON, (Assignee of J. H. BANKS,) London, Eng., 14th January, 1875, for 5 years: "Improvements on the Production of Printing Surfaces and of Engraved Metal Surfaces Applicable for other purposes." (Perfectionnements dans la production des surfaces d'imprimerie et des surfaces de gravure sur métal applicables à d'autres fins.)

*Claim.*—1st. The combined process as described for the production of raised surfaces applicable for type-printing and other uses consisting in: a,—obtaining a photographic print on a sensitized gelatine film carried by a glass plate; b,—swelling the image; c, obtaining a cast of the same in plaster without removing the gelatine from the glass; d,—obtaining a cast of the same in a wax composition; e,—obtaining an electrotype from the wax cast. 2nd. The modification described of the above process to obtain an engraved plate; 3rd. The modification described of the above process in which the soluble portion of the printed gelatine film is washed away in place of being swollen; 4th. The use of a bath of bichromate of potash or other bichromate or per oxide of chromium with hydrate of lime, added to it for sensitizing the gelatine plates in taking a cast from the plates, as described, without removing the gelatine from the glass; 5th. The toughening of the raised gelatine surfaces by the means described; 6th. The preparation of the plaster casts by immersions in water and subsequent drying prior to taking a second cast or wax impression from them, also in the hardening of the plaster casts by immersing them in hot size, treacle and oxide of chromium also in the hardening of the plaster casts by immersing them in a weak solution of a lum in water and pyrogallol acid; 7th. The pressing of the plaster just at the time of setting when taking plaster casts from gelatine plates or casts taken from them as described; 8th. Imparting a thin film of mercury to the surface of the gelatine plates, plaster casts or wax impressions to prepare them for electro-typing.

No. 4260. PATRICK BURKE, Toronto, Ont., 14th January, 1875, for 5 years: "Gas Carbureter." (Carbureteur à gaz.)

*Claim.*—1st. In combination with a can (or other suitable vessel) A, half filled with gasoline M, poured in through the tap B, covered by the cap C, hinged to the top part D, and locked with the feeding pipe G, and exhaust pipe J; 2nd. In combination with the vapouring chamber E, the inside connecting tube H, and the row of small tubes I, with the wicks K, suspended from the top part D and the gasoline M, as set forth.

No. 4261. PLATT B. MYERS and SOLOMON ROUGH, Buchanan, Mich., U. S., 14th January, 1875, for 5 years: "Carpet Stretcher." (Tendeur de tapis.)

*Claim.*—The boards A with teeth a, a, the cords b, b, the perforated moveable roller D, with spokes d, d, and the hook B, all constructed as set forth.

No. 4262. GEORGE C. THOMAS, New York, U. S., 14th January, 1875, for 5 years: "Lock Nut Washer." (Rondelle de noix de sureté.)

*Claim.*—1st. The described washer bent or twisted in the manner described so as to form an elastic bearing for the nut, whatever may be the position of the latter, and so as to present the sharp retaining edges owing their efficacy to the elasticity of the washer, as specified; 2nd. The described washer consisting of a ring of thin steel having internal lips B, formed by radial slots or slots, each lip having one edge depressed and the other elevated, all as set forth.

No. 4263. EDWARD N. PORTER, (Assignee of E. FOSTER and M. B. EATON,) Morrisville, Vt. U. S., 14th January 1875, for 10 years: "Milk pan." (Boîte à lait.)

*Claim.*—The milk pan A, having its bottom spring downward concavely or otherwise and stayed by cross bars d, d, or other

means for the purpose set forth; 2nd. Providing the concave bottom with a valved outlet f, for stopping and drawing off the milk; 3rd. A milk cooler B, the perforated tortuous or straight water pipe C, arranged in the bottom of the cooler B, for distributing the water; 4th. The flexible tube H, applied to the cooler B, for regulating the height of the water therein; 5th. The combination of the milk pan A, having concave bottom, outlet tube b, stays d, d, and the cooler B, perforated pipe C, and flexible tube H.

No. 4264. ALBERT B. DANIELS, Franklin, Mass., U. S., 14th January, 1875, for 5 years: "Improvements on Games." (Perfectionnements aux jeux.)

*Claim.*—1st. The tower I, provided with the perforated floors. 1 to 7, in combination with the rotating table B; 2nd. The table B, provided with the chutes G, and tilting tablets D; 3rd. The stop E, in combination with the chute G, and tablet D. 4th. The tablets D, having upon one side the letters of the Alphabet, and upon the other corresponding numbers as shown; 5th. The base A, having a rim as shown, in combination with the rotating table B, provided with the tilting tablets D.

No. 4265. WILLIAM A. CLARKE, York, Ont., 15th January, 1875, for 5 years: "Instrument for Wrapping Wire or Cord on broken Vehicle Shafts, &c." (Appareil pour enrouler du fil métallique ou de la ficelle sur des timons cassés, &c.)

*Claim.*—1st. The combination of the frame E, H, and bobbin a, a. 2nd. The combination with the frame E, H, and the bobbin a, a, of the tightening nut D, as set forth.

No. 4266. NICHOLAS A. MANAAR, Buffalo, N. Y., U. S., 15th January, 1875, for 5 years: "Improvements on Tea Kettles." (Perfectionnements aux théières.)

*Claim.*—1st. The spout D, fastened to the part B, in the manner described; 2nd. The cover C, having the lower edge of the rim made slightly oval, so as to act as a spring for holding it in place, in the manner set forth; 3rd. The knob H, composed of the parts h, h<sub>1</sub>, h<sub>2</sub>, and combined with the cover G, as shown.

No. 4267. F. B. A. ROYER DE LA BASTIE, La Villette, Fce., 15th January, 1875, for 15 years: "Process and Apparatus for Tempering Glass." (Procédé et appareil pour recuire le verre.)

*Claim.*—1st. The process described of tempering and hardening glass by plunging the same when heated to about the point of softening, and under exclusion of the atmospheric air into a bath of liquid fatty, resinous or bituminous matter, also raised to a high temperature but below that of the glass; 2nd. The combination of the oven a, for heating with the closed bath C for plunging, made to communicate with each other so that the heated glass can be plunged with the least possible manipulation; 3rd. The combination of the rocking floor 19, inside the oven a, with the rocking table e inside the bath C, arranged and operating as described.

No. 4268. CHARLES F. LALONDE, Montreal, Que. 15 Janvier, 1875, pour 5 ans: "Perfectionnement aux machines à séparer les clous, vis, brochettes, rivets, crochets, &c., au sortir du bain d'étamage." (Improvements on Machines for Separating Nails, Screws, Tacks, Rivets, Hooks, &c., when taken out of Tin Bath.)

*Résumé.*—L'arbre B muni de ses palettes E, et animé d'un mouvement rotatif, dans la boîte tel que décrit.

*Claim.*—The shaft B provided with floats E, worked by rotatory motion in the box as described.

No. 4269. JOSEPH E. TOWNSHEND, Montreal, Que., 15th January, 1875, for 5 years: "Improvements in the Cleansing, Disinfecting and Preserving Feathers, Hair, Wool, Flocks, Fibre and all Materials used for Beds and Upholstery." (Perfectionnements dans la manière de nettoyer, désinfecter et conserver la plume, le crin, la laine, la bourre, le fibre et tous les objets employés dans les lits et la tapisserie.)

*Claim.*—The process of cleansing, disinfecting, and preserving feathers, hair, wool, flock, fibre and all materials used for beds or upholstery by the use of steam, evaporating and mingling with the vapours from Carbolic Acid or other disinfectants, and the subsequent desiccation by hot air in the manner described.