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INVENTIONS PATENTED.

No. 2472. ALBERT H. MERSHON, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "A Gas Heater." (Fourneau à gaz.)

Claim.—1st. The gas heater constructed of a metallic body having a face in connection with perforations in and corrugations on said face, so as to form a heating surface on the front or toward the apartment; 2nd. In combination with a gas heater mechanism for obtaining hot water and steam as set forth.

No. 2473. JOHN CHARTON, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "Shaft Coupling." (Ajustage des axes.)

Claim.—1st. A covered coupling consisting of the clamps formed in the body A, and the portions D, E, in connection with tightening screws, wedges or bolts; 2nd. The conical screws, wedges, or bolts, and the conical openings, in connection with the clamps C, and body A; 3rd. A coupling adapted to receive and hold the ends of shafting of varying diameters; 4th. The clamps divided transversely so that one pair or set is independent of the other; 5th. The auxiliary clips or fastenings H; 6th. The body cored or separated to form the segment of a circle which is divided at a in connection with the transverse division at G.

No. 2474. MICHAEL A. LYNCH, Boston, Mass., U. S., 17th June, 1873, for 5 years: "Lamp Lighting Apparatus." (Appareil pour allumer les lampes.)

Claim.—The shaft *a*, tooth *i*, crank *f*, connecting link *c*, lever or discharger *d*, and tube *e*, such fuse tube and shaft being applied to a lamp burner as described; the fuse made as described, composed of a strip of pyroxyline, notched or serrated and provided with a fillet of match composition to ignite by friction of a lever or striker as explained.

No. 2475. EDWARD J. CRANGLE & JAMES P. CRANGLE, (Assignees of W. F. Burton), St. Stephen, N. B., 3rd July, 1873, for 10 years: "Self-feeding Lath Gang Machine." (Machine à latte, multiple et à alimentation continue.)

Claim.—1st. The arrangement of the saw shaft B, elevated above the plane of the shafts of the lower feed rollers, whereby the saws cut below their shaft; 2nd. The combination and arrangement of the triple feed rollers D, D, D, and receiving rollers H, H, for feeding and delivering the stuff to and from the saws; 3rd. The arrangement and combination of the friction wheels K, A, and friction roller J, for operating the shafts of the feed and receiving rollers; 4th. The application and arrangement of the lever, T, whereby the upper shafts of the feed and receiving rollers can be simultaneously depressed as set forth.

No. 2476. EDWARD J. CRANGLE & JAMES P. CRANGLE, St. Stephen, N. B., (Assignees of W. F. Burton), 3rd July, 1873, for 10 years: "A Lath Machine." (Une machine à latte.)

Claim.—1st. The combination and arrangement of the pivot and sliding bearing of the feed roller shaft F, with the shaft E, and frame A, whereby the upper feed roller has a vertical movement to and from the lower feed roller; 2nd. The arrangement of the saw shaft C, gauge J, feed roller I, and friction roller L, whereby the cut of the saw is effected above the shaft C; 3rd. The application to the feed shaft F, of a lever M, and weight P, arranged as set forth, for applying pressure to the feed roller H; 4th. The application and arrangement of the adjustable gauge J, in combination with the feed rollers H, I, and saws whereby the laths may be cut of any desired thickness.

No. 2477. JARVIS B. WHITE & HARRIS WILSON, Windsor, Ont., 3rd July, 1873, for 5 years: "Combination Lock." (Serrure à combinaison.)

So constructed that stationary hooks engage with one of the discs of the lock, which discs form part of the lock, in combination with the change plates.

Claim.—The combination of the stationary hooks H, with the dials D, knobs C, rods E, and discs F, G, the parts being arranged as described.

No. 2478. DANIEL S. MERRITT, Bay City, Mich., U. S., 3rd July, 1873, for 5 years: "Machine for Cutting Iron." (Machine à couper le fer.)

Relates to the construction of the upper and under blades of the shears, both blades being sharpened, and when the machine is in operation both cutting, also to the combination of moveable joints and levers, imparting motion to said blades.

Claim.—1st. The shears constructed of two moveable parts A, and B, both having cutting edges operating towards each other and pivoted to the standards C, of the frame D. 2nd. The combination and arrangement of the levers G, H, and F, with the blades of shears A, and B, and standards E, of the frame D, for operating the parts A, and B, as set forth.

No. 2479. JOHN H. BRIDGMAN, St. Marys, Ont., 3rd July, 1873, for 5 years: "Hay Rake Spring." (Ressort de râtelier à foin.)

Claim.—The peculiarly shaped and constructed springs composed of steel Fig. 3, *a*, *b*, *c*, *d*, and *e*, also Fig. 2, and placed in combination by bolts with the hay rake at *c*, Fig. 1.

No. 2480. EBENEZER A. GOODES, Philadelphia, Penn., U. S., 3rd July, 1873, for 5 years: "Toy Sewing Machine." (Machine à coudre les jouets.)

Claim.—1st. The frame E, consisting of the part H, supporting the work plate, the part G, forming one bearing for the looper rod M, the part F, by which the frame is supported and secured, the part J, forming the other bearing for the looper rod, and one bearing of the driving shaft O, the part J', forming the other bearing of the driving shaft and the part N, forming the foot, the parts being continuous and adapted to operate in the manner described; 2nd. The rod M, with looper T, at one end, and the cam arm U, at the other end in connection with the spring V, for operating the arm U, in one direction and the handle J, of the wheel Q, for operating it in the other direction; 3rd. A sewing machine consisting of the frame E, F, G, J, J', work plate L, presser foot N, looper T, M, U, spring V, hand wheel Q, rod O, the needle and needle bar R, cor-