

No. 3229. JACOB D. SPANG, Dayton, Ohio, U. S., 27th March, 1874, for 5 years: "Portable Toy Race-Track for Field and Parlour." (Hippodrome-jouet portatif propre aux salons et aux champs.)

*Claim.*—1st. A mimic race-course having enclosure B, a starting station, rows of transverse posts, cross-hurdles, stables and a final goal, arranged as specified, 2nd. In mimic race-courses, a starting station C, having the bottom hinged gate c, 3rd. In mimic race-courses, the transverse rows of posts arranged as described to retard the balls that come in contact therewith, and change the relative progress of different ones; 4th. The hurdles arranged as specified. 5th. The stables to catch and arrest entirely more or fewer of the balls as set forth.

No. 3230. ANSEL R. THOMAS & LUCAS C. THOMAS, Huntingdon, Ind., U. S., 27th March, 1874, for 5 years: "Improvements on Cut-Off Valve and Sink Motions." (Perfectionnements aux soupapes de détente et aux mouvements des trappes.)

*Claim.*—The cut off valve J, with the combination of the fixed segment guide K, sliding sleeve k, link K', and arm L, shaft m, and hand lever m, combined with the slotted link L, guide p, valve rod j, and pitman rod H, as described.

No. 3231. WILLIAM F. BARNES, Rockford, Ill., U. S., 27th March, 1874, for 5 years: "Improvements on Mechanical Combinations for Converting Motion." (Perfectionnements aux combinaisons mécaniques pour convertir le mouvement.)

*Claim.*—1st. The combination of the treadles G and G', and their straps, with the driving plate D, having jaws D', pawl carrier E, pivoted pawl F', and toothed wheel E', constructed and operated as described, 2nd. The combination of the revolving driving plate D, having projecting jaws D', arm c, of pawl carrier E, and pawl F', having the close fitting arm f, as described.

No. 3232. HENRY J. P. WHIPPLE, Meriden, Ct., U. S., 27th March, 1874, for 5 years: "Improvements on Attaching Knobs to Spindles." (Perfectionnements dans l'ajustage des boutons de portes.)

*Claim.*—The detached knob and neck D, and E, in combination with the spindle A, when the said knob is provided with a screw c, and latch b, and the neck constructed with one or more notches a, by means of which the said latch, knob and neck are coupled together as set forth.

No. 3233. THOMAS WHITWELL, Stockton-on-Tees, Eng., 27th March, 1874, for 5 years: "Improvements on Fire Places and Stoves." (Perfectionnements aux foyers et cheminées et aux poêles.)

*Claim.*—1st. The general combination of parts forming a fire-grate or stove consisting of a fire-grate, having at the back an air chamber D, pipes A, and chamber F, communicating with the interior of the room or building to be warmed and also of a door or doors B, and L, for controlling the direction of the draught and of a door or doors C, below the grate to allow of soot and dust being cleared away; 2nd. In combination with pipes A, for utilizing the waste heat of fires the use of a door or doors B, for regulating the amount of heat allowed to pass directly up the chimney, or to pass between and to heat the pipes, such door or doors to be used for the purpose of cleaning the upper parts of the apparatus and the chimney from soot and dust; 3rd. In combination with pipes A, for utilizing the waste heat of fires the use of a door or doors L, for regulating the amount of heat allowed to pass between and to heat the pipes; 4th. In combination with pipes A, for utilizing the waste heat of fires the use of a door or doors C, to allow of the soot or dust being cleared away from the lower parts of the apparatus as described.

No. 3234. JAMES T. BUSTIN, St. John, N. B., 27th March, 1874, for 5 years: "Machine for Putting the Paste on Wall Paper." (Machine à appliquer la colle au papier de tenture.)

*Claim.*—The combination of the wood box or case a, the tin trough b, the rollers c, and d, and the thumb screw g.

No. 3235. SIMON P. BARNUM, Thurlow, Ont., 27th March, 1874 for 5 years: "Machine for Fastening Cords and Ropes." (Machine à assujétir les cordes et les câbles.)

*Claim.*—The combination of the two hooks c, c, between which the cord or rope is secured as set forth.

No. 3236. ANDREW J. SOMERVILLE, Toronto, Ont., 27th March, 1874 for 5 years: "Improvements in Paint Cans." (Perfectionnements dans les boîtes métalliques à peinture.)

*Claim.*—1st. The application of the handle C, to cans manufactured from anada plate or block sheet iron and containing white lead or similar pigments when prepared for the market, 2nd. The clasp B, or its equivalent in combination with the handle C, arranged as described, 3rd. The can A, with the handle C, in combination with the cover A', having attached the clasp B', arranged as described.

No. 3237. THOMAS HALL, Northampton, Mass., U. S., 27th March, 1874, for 5 years: "Bench Vice or Clamp." (Etau d'établi.)

*Claim.*—1st. In combination with the moveable jaw A, of the vice, the handle C, attached thereto constructed and operated as described; 2nd. The frictional bearings or straps T, for the purpose of holding said handle in any of its working positions; 3rd. The combination of handle C, moveable jaw A, and clutch G, with wedge D, and toggle E, F or their equivalents, rack H, and stationary jaw B; 4th. The combination of the projection K, on lever C, lever J, or its equivalent, with clutch G, and rack H; 5th. The combination of the dovetailed ring or flange B, on the vice, with the sectional dovetailed bed plate P; 6th. The combination of the ring or flange B, bed plate P, and notched bar H; 7th. The abutment H, in combination with sliding jaw A.

No. 3238. HENRY A. WHITE, Hamilton, Ont., 27th March, 1874, for 5 years: "Improvements in Dampers for Stove Pipes and Furnaces." (Perfectionnements aux clés de tuyaux de poêles et de calorifères.)

*Claim.*—1st. The spring box B, fitted in the stove pipe A in connection with the spring F, and the saddle E; 2nd. The saddle E, in connection with the spring F, for holding the disc C, in its place; 3rd. The curved spring F, in connection with the saddle E, and box B; 4th. The round even edged disc working on the spindle of the damper in connection with the saddle E.

No. 3239. BENJAMIN G. DEVOE, and WILLIAM L. WALKER, Kenton, Ohio, U. S., 27th March, 1874, for 5 years: "Improvements on Iron Fences." (Perfectionnements aux palissades en fer.)

*Claim.*—1st. The combination of rolled hollow half round metallic pickets A, A, horizontal T-shaped rails B, B, and clamps C, C, with grasping lugs b, b, and d, d; 2nd. The combination with a fence post H, of the plates G, G, bolts m, m, bolts l, l, plate J, and nuts h, h, with horizontal rails B, B, of a fence as set forth.

No. 3240. LEWIS MILLER, Jarvis, Ont., 27th March, 1874, for 5 years: "Improvements on Plough Mould Boards." (Perfectionnements aux versoirs de charrues.)

*Claim.*—A plough mould board having a rising sharp ridge A, diminishing rearward, and the lower edge C, curving from point to rear both emerging into the spiral twist given to the side of the mould-board and over-turning heel as set forth.

No. 3241. HORACE E. WELLS, Van Wert, Ohio, U. S., 27th March, 1874, for 5 years: "Lumber Drying House." (Sécherie à bois.)

*Claim.*—1st. A dry house having outside walls a, a continuous outlet opening b, from the drying chamber into the top of the hollow walls and a chimney F, communicating with the bottom of the hollow walls; 2nd. A dry house having the hollow walls a, tight air chamber c, opening b, and chimney F, the flue E, provided with the apertures d, as set forth for the purpose of equalizing the draft.

No. 3242. GEORGE A. KITTSON, Quebec, Que., 27th March, 1874, for 5 years: "Overshoe Fastener." (Agrafe de claqué.)

*Claim.*—The parts of any boot or shoe or over-boot or over-shoe as represented by a, a, in combination with eye c, strap d, and clasp f.

No. 3243. HENRY W. CARR and MICHAEL TURNBULL, Hamilton, Ont., 27th March, 1874, for 5 years: "Improvements in Tool Boxes and Cutters for Iron Planers." (Perfectionnement des portes-outils et outils de machine à raboter le fer.)

*Claim.*—The combination of the two cutting tools D, D, with the swinging block B, of a tool-box for planers.