

No. 2446. GEORGE R. MENEELY, West Troy, N. Y., U. S., 11th June, 1873, for 5 years: "Bell-metal Journal Boxes." (Cousinets en métal de cloches.)

*Claim*—1st. The Journal boxes, or axle bearings for railroad cars, and other purposes, having a lining of hard brass, bronze or bell metal, to resist wear and a tough metal back to give it the required strength; 2nd. In welding brass, bronze or bell metal, to iron or steel, by first cleaning the iron or steel surface, and continuously pouring the brass, bronze or bell metal over or on said surface until the fibres of metals unite, and form a weld as described.

No. 2447. ALGERNON S. WHITING, Oshawa, Ont., 11th June, 1873, for 5 years: A Monkey Wrench." Un manche de teraud.)

*Claim*—The adaptation of the eccentric or cam C, placed between two chaws B, B', or adjusted to a single chap extending behind the moveable (lower) jaw B, which eccentric C, presses against the back bar of the wrench, thereby forming a firm fixture at any desired opening within the compass of the length of the back-bar.

No. 2448. ANDREW HUNTER & EGBERT H. OSBORN, Quincy, Ill., U. S., 11th June, 1873, for 5 years: "Machine for Purifying Middlings and Flour." (Machine pour purifier les gruaux et la farine.)

*Claim*—1st. The vibrating levers E, in combination with chute or screen B, for operating the same; 2nd. The combination and arrangement of cams D, vibrating levers E, with screen B, to impart a lateral movement; 3rd. The combination of the levers E, and struts H; 4th. The combination of the levers E, and friction rollers F; 5th. The combination and arrangement of cam D, vibrating levers E, chute B, and hangers C, procuring a peculiar percussion movement whereby the middlings will move rapidly on a level surface or up an elevation; 6th. The combination of vibrating levers E, and set screws K; 7th. The combination of levers E, and springs O; 8th. The hangers C, placed in an angular position; 9th. The hangers C, in combination with chute B; 10th. The feed trough K, for distributing middlings or flour evenly on any machine; 11th. The feed trough K, in combination with screen B; 12th. The combination of wire and holting cloth for covering a chute or screen; 13th. The fan I, in combination with screen B, whereby a blast of wind is forced up through the screen or chute; 14th. The fan I, for producing a blast of wind up through a screen for purifying middlings; 15th. The combination of chute B, and dust chamber distinct from a point, extending the width of the screen, sufficient to spread the middlings evenly on the screen; 16th. The brushes S, placed under the screen and operated by an attachment or handles extending to the outside of the machine; 17th. A chute or screen B, of any required length or width in combination with the other devices.

No. 2449. CHRISTOPHER WORDEN & JOSIAH B. PLUMB, Niagara, Ont., 11th June, 1873, for 5 years: "Process of Converting Cast or Wrought Iron into Steel." (Procédé pour convertir le fer ou la fonte en acier.)

*Claim*—The conversion of cast malleable or wrought iron into steel by the process of dipping or immersing it in a bath of molten cast iron as described.

No. 2450. NELSON JOHNSON & WILLIS E. CRAIG, Jasper, N. Y., U. S., 11th June, 1873, for 15 years: "Circular Saw Teeth." (Dents de scies circulaires.)

*Claim*—The plate a, provided with lip c, in combination with the tooth B, having lips d, and f, and the rivet b, when constructed as described, so that the strain of the rivet will be on the tooth both ways.

No. 2451. WILLIAM MARNE, Dillon, Que., 11th June, 1873, for 5 years: "Hook and Clevis." (Crochet et volée.)

Consists in constructing the hook and clevis in such a manner that the danger of their becoming accidentally separated is avoided and so forming them that the one may be removed from the other whenever it is considered advisable.

*Claim*—The hook E, with cam B, curve A, and projections F, in combination with clevis B, having grooves D, as described.

No. 2452. GEORGE W. FRANK, Hamilton, Ont., 11th June, 1873, for 5 years: "Sewing Machine Thread Controller." (Régulateur du fil des machines à coudre.)

*Claim*—In applying a thread controlling device to a sewing machine whereby the thread is held perfectly tight for a certain length of time during the formation of each stitch and is released entirely for the remainder of the stitch as specified.

No. 2453. WILLIAM MCGINISS, Canandaigua, N. Y., U. S., 11th June, 1873, for 5 years: "Method of Building." (Art de construire.)

*Claim*—1st. In a building constructed with hollow walls and having a ventilation through iron collar or rods, the metallic binders built in between the courses connecting the thickness of the walls and lapping under the flooring timbers, in the manner specified; 2nd. In combination with the hollow walls connect with the cellar by ports or passages, e. e., the tubes f, f, extending to the ventilator H, in the manner specified; 3rd. The pipes d, d, connecting the hot air pipes of the furnace with the hollow walls and the register holes f, f, opening from the rooms into the hollow walls as set forth.

No. 2454. SAMUEL J. PAYNE, Charlton, Kent, Eng., 11th June, 1873, for 5 years: "A Fire Resisting Composition." (Une composition réfractaire.)

Relates to a reformation of a plastic compound suitable for lining reservoirary and other furnaces which are subjected to an intense heat and also to the manufacture of fire bricks, crucibles, retorts and other fire-ware goods.

*Claim*—1st. A plastic composition consisting of silicious and aluminous materials combined with calamine in the proportions set forth; 2nd. In the application of calamine to the external surfaces of moulded articles composed of a plastic compound of silicious and aluminous materials in the manner set forth.

No. 2455. FRANCIS N. DAVIS, Beloit, Wis., U. S., 14th June, 1873, for 5 years: "Paper Board for Buildings." (Carton pour les bâtisses.)

Which is intended to take the place of lath and plastering and to form a substitute for wall paper.

*Claim*—1st. A new article of manufacture in building paper or board in continuous lengths made either plain, or fire proof, or water proof, or both fire and water proof, and having a wall paper finish; 2nd. The process as described, for giving a wall paper finish to continuous lengths of building paper or board.

No. 2456. WILLIAM SILVERTHORN, Windham, Ont., 14th June, 1873, for 5 years: "A Cultivator." (Un cultivateur.)

*Claim*—1st. The plows J, constructed of the peculiar concavo-convex form as shown and described; 2nd. The adjustability of the wheels P, between perforated plates E, by the shifting axle as described; 3rd. In the adjustability of the rear standards C, C, laterally by the inserted transverse bar K, secured between the handles B, at the arms M, and screw device N, arranged and operating as set forth.

No. 2457. EDOUARD JULIEN, Kingston, Ont., 14th June, 1873, for 5 years: "Reed Organs." (Orgues à feux d'arches.)

*Claim*—The combination of the blast bellows with the suction bellows by means of the shaft f, regulated by the weights w, w; 2nd. The pipes or chambers h, h, h, h, into which the reed sets upon connecting with the suction bellows. And similar pipes or chambers by any reed set which may be used, whether governed by wells as in the said pipes or chambers, or governed by a pipe or pipes as in the case of the subass chamber Y, and its pipe, or connected as x, x, with attachments, similar to or of the character of the clarinet and piccolo attachments; 3rd. The clarinet and piccolo attachments consisting of the pipes p, k, l, l, adjusted in connexion with the suction or blast bellows or both and placed behind the action or as at T, within the action. The valve V, operated as described, the swell range C, for the piccolo and clarinet attachments operated from the key board; 4th. The upright shaft or rod moving from the pedal a, the swell d, the ground swell z, the strap S, the wire cam or lever D, for the celeste swell, and the pipe E, E, with the corresponding hinged arrangement of the key board as set forth.

No. 2458. HIRAM J. WATTLES, Rockford, Ill., U. S., 14th June, 1873, for 5 years: "Clothes Line Fastener." (Porte-ligne d'étendage.)

*Claim*—A frame A, A, pawl B, tooth roller C, guard E, the pawl and roller hung upon pins.

No. 2459. JOSEPH WARDELL, Toronto, Ont., 14th June, 1873, for 5 years: "Clothes Line Fastener." (Porte-ligne d'étendage.)

*Claim*—A clothes line fastener with an oval hole in centre D, and half round groove C, at the end, and lugs B, for receiving screws for the purpose of holding clothes line fastener.

No. 2460. LEONARD WILKINSON, Strathroy, Ont., 14th June, 1873, for 5 years: "A Monkey Wrench." (Une clé anglaise.)

Consists in the manner of constructing the stock of the wrench and in the means employed for shifting the moveable jaw and adjusting the wrench to the size of the nut.