

No. 3127. WASHINGTON FOGLESONG, Dayton, Ohio, U. S., 20th February, 1874, for 10 years: "Machine for Making Sheet Metal Pans." (Machine à fabriquer les ustensiles de cuisine en tôle forte.)

*Claim.*—1st. The sinking table G, plunger J, I, and side folders H, H', operated by suitable mechanism, in combination with the reciprocating corner folders O, O'; 2nd. The combination of table G, die I, and corner lappers O, O'; 3rd. The combination of table G, plunger J, I, side folders H, H', corner lappers O, O'; and cam C, when the cam is constructed so as to allow the plunger to rest at a certain point in the revolution of the shaft A, to permit the lappers to turn the corners R; 4th. The feeding carriage a, automatically operated in the manner specified; 5th. In combination with a sheet metal pan folding machine, comprising a table G, die I, and side folders H, H', the tongue and groove hinges g, g'; 6th. In combination with the elements of the first clause of claims the adjustable bars h, h'; 7th. In combination with the table G, die I, and side folders H, H', the shoulder and flange j; 8th. The discharging rollers S, S, and band T, operating in the manner specified.

No. 3128. D. DOUDS, J. H. HARTSUFF, and P. DOUDS, New Castle, Penn., U. S., 20th February, 1874, for 5 years: "A Steam Pump." (Une pompe à vapeur.)

*Claim.*—1st. The chambers A, A', in combination with the suction valves E, E' discharging valve S, and steam valve C, all arranged and operating as described; 2nd. The combination of the air chamber L, having the screw plug N, and spring valve O, with the suction space M, of the pump; 3rd. The suction valves E, E', constructed as described in combination with the casings I; 4th. The suction casing of the pump as specified.

No. 3129. GEORGE WESTINGHOUSE, Jr., Pittsburgh, Penn., U. S., 20th February, 1874, for 15 years: "Machine for Regulating, Applying and Releasing the Fluid Pressure on Railway Air-Brake Apparatus." (Machine pour régler, appliquer et relâcher la pression du fluide dans les appareils des freins à air de railroute.)

*Claim.*—1st. The triple valve device constructed as set forth arranged in a valve box or case in connection with a suitable arrangement of parts so as by variations in the pressure brought to bear thereon the air or other fluid pressure may be utilized in applying releasing or graduating the brakes; 2nd. The triple valve described in combination with the air charging part G, the auxiliary reservoir part G', the brake cylinder part H, and the intermediate parts C, C'; 3rd. The diaphragm n, and compound nut or piston c, c', in combination with the stem g, and valve a; 4th. The flexible elastic diaphragm n, in combination with one or both the annular flanges D, D', arranged relatively thereto as set forth; 5th. The relief valve R, in its case R', with parts r, r', arranged on the pipe H, and in combination therewith as set forth; 6th. The eye bolts m, hinged to pins m', operating in recesses or between lugs on the two parts B, B', so as to swing to and from their places by a hinging motion in the manner set forth.

No. 3130. JOHN DENNIS, Newmarket, Ont., 20th February, 1874, for 5 years: "Improvements in Dennis' Economical Framed Log Barn." (Perfectionnement à l'étable à charpente en pièces de bois dite étable économique de Dennis.)

*Claim.*—1st. The combination of the bents A, A, A, Fig. 1, and B, B, Fig. 2, for the purpose described; 2nd. The combination of the barn yard stable with the ordinary stable; 3rd. The combination of the skeleton walls c, c, c, Fig. 3, with the barn yard mangers E, E, Fig. 4, for the purpose described; 4th. The combination of the water trough O, O, Fig. 3, with the manger b, b, same figure.

No. 3131. JOHN KAY, Indianapolis, Ind., U. S., 20th February, 1874, for 5 years: "Roller Abstractor for Lever Watches." (Griffe pour enlever les cylindres des montres.)

*Claim.*—1st. The adjustable spring legs D, with feet d, in combination with the sliding adjustable spindle C, arranged as described; 2nd. The sliding spindle C, with slot e, and solid or detachable nipple c, working within the guide cut in A, the screw B, and the swivel point b, working within the guide and nut in A, in combination with the adjustable spring legs D, with feet d, the screw E, and nut e, arranged as described.

No. 3132. JAMES L. CATHCART, Washington, D. C., U. S., 20th February, 1874, for 5 years: "Improvements on Vessel Propellers." (Perfectionnements aux propulseurs de vaisseaux.)

*Claim.*—1st. A propeller frame mounted on a vertical axis and connected with the rudder post so as to be moved simultaneously therewith to a less extent; 2nd. A laterally adjustable propeller mounted in a frame adapted to be secured at any desired angle with the line of motion of the vessel; 3rd. The combination and arrangement of the propeller crane-shaft F, cross-head G, sectors H, chains T, pulley J, and rudder R; 4th. The combination and arrangement of the chains T, connecting the rudder and propeller frame, the adjusting devices i, k caps K, and sectors H; 5th. The coupling piece T, sliding boxes t, and forked yokes s, constructed and combined to transmit rotary movement from the shaft S, to the shaft b, while permitting the deflection of the latter; 6th. The propeller B, crane C, bearing c', cap c, crane shaft F, and detachable boxes t, separably connected as described to permit the unshipping and shipping of the parts; 7th. The fastening v, w, or its equivalent on the end of the shaft b, employed to tie the extremity of the arm C', of the crane to its post C, as described.

No. 3133. T. STERRY HUNT, Boston, Mass., U. S., and JAMES DOUGLAS, Jr., Quebec, 20th February, 1874, for 5 years: "Improvement in the utilization of Refuse or Waste Tinned Sheet Iron commonly called Tin Plate." (Mode d'utilisation des déchets ou retailles de tôle étamée ordinairement appelée ferblanc.)

*Claim.*—1st. The use and application of tin plate scrap or waste for precipitating metallic copper from its solutions; 2nd. The recovery and utilization of the tin from the tin-plate scrap by means of its solution and subsequent precipitation as oxide of tin in solutions containing protochloride of copper and a sulphate.

No. 3134. ALEXANDER K. PEDRICK, Philadelphia, Penn., U. S. (Assignee of E. Pedrick,) 20th February, 1874, for 5 years: "Traction hydraulic Engine." (Perfectionnements dans les pompes.)

It is proposed by this invention to use the exhaust steam from an engine, to create a vacuum in the iron chamber specified so as to act as an auxiliary pump at oil, salt and other wells.

*Claim.*—1st. The action of steam upon water or fluid in an iron chamber attached to the load or discharge pipe or tube from the pump to produce a vacuum; 2nd. The bevelled or funnel-shaped pipes or tubes connecting with the iron chamber and also separated therefrom; 3rd. The bevelled or funnel-shaped pipes or tubes to be used singly or for one or more to be connected together as set forth.

No. 3135. LEVI S. JOHNSON & MARVIN G. JOHNSON, Cortland, N. Y., U. S., 20th February, 1874. (Extension of Patent No. 3052, for 5 years.) "Preparation of Beef for Table Use." (Préparation du bœuf pour la table.)

*Claim.*—A beef compound prepared by cutting raw lean beef very fine and mixing it with salt, saltpetre and sugar, and packing and drying and smoking the compound in bags as set forth.

No. 3136. EDWIN E. PEARSE, London, Eng., 24th February, 1874, for 5 years: "Improvements in the Manufacture of Glucose or Grape Sugar from rice and other grain." (Perfectionnements dans la fabrication de la glucose or sucre de raisin avec du riz ou autres grains.)

*Claim.*—1st. The production of saccharine liquid by one operation in the manufacture of glucose or grape sugar from rice and other grain and the means or apparatus employed therein as described; 2nd. The combination of the vessel a, the hollow shaft c, with the hollow perforated arms d, directed for the passage and supply of steam, the feeding means k, k', b, b'; 3rd. The cylinder l, with feed chambers l', to receive the matters from a feed hopper and deliver them in regulated quantities to and in combination with the receiving vessel a.

No. 3137. HENRY PARKER, Gananoque, Ont., 24th February, 1874, for 5 years: "Improvements on Moulds for Casting Cores." (Perfectionnements aux moules à couler les noyaux.)

*Claim.*—1st. The sliding plate C, in combination with the flasks B, arranged and operating as set forth; 2nd. The moulding but-