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**INVENTIONS PATENTED.**

No. 3244. RICHARD SMITH, Sherbrooke, Que., 27th March, 1874, for 5 years: "Improvements on Hot Air Furnaces." (Perfectionnements aux calorifères à air chaud.)

*Claim.*—1st. The application of the lining H, H, suspended in the interior of the heater and drum in such a manner as to leave a space between the lining and the outer shell of each.

No. 3245. FREDERICK TARRANT and JOHN P. CONKLING, Saratoga Springs, N. Y., U. S., 27th March, 1874, for 15 years: "Improvements on Stove-pipe Thimbles." (Perfectionnements aux douilles des tuyaux de poêles.)

*Claim.*—A telescopic stove-pipe thimble, the tubes A, and B, of which are provided at their outer ends with flanges A1, and B1, and have interlocking spiral beads a, and b.

No. 3246. JAMES H. THORP, Chicago, Ill., U. S., (Assignee of J. P. THORP), 27th March, 1874, for 5 years: "Improvements on Thill Couplings." (Perfectionnements dans l'accouplement des limonnières.)

*Claim.*—The hook F, applied to the thill-coupling, and passing through a hole in the thill wire to operate in the manner set forth.

No. 3247. ALBERT UNGERER, Simmering, Austria, 27th March, 1874, for 5 years: "Process and Apparatus for Preparing Paper Pulp, &c." (Procédé et appareil pour préparer la pâte à papier, &c.)

*Claim.*—1st. A new and peculiar process for isolating the cells of plants without injuring their integrity and for freeing them completely from the substances known as incrustating substances, whereby they are also decolouring to a great extent; 2nd. The arrangement of an apparatus specially adapted for the aforesaid purpose and especially applicable for the manufacture of paper pulp from wood, as specified and described.

No. 3248. MATHEW GLEN and WILLIAM H. LYNCH, Shipton, Que., 27th March, 1874, for 5 years: "Machine for Grinding, Polishing and Finishing Slate." (Machine à dégrossir, polir et parfaire l'ardoise.)

*Claim.*—The machine with the moveable metal plate B, B, worked between a number of rollers c, c, c, and x, x, x, x, by a connecting rod d, attached to a crank and balance wheel combined, moved by steam or water power.

No. 3249. LOUIS A. COLTEAU, Léonville, France, 27th March, 1874, for 5 years: "Potato Sowing Machine." (Semoir à patates.)

*Claim.*—1st. The novel combination of the moveable recipient p, the cloth r, the inclined plane u, the rotating shaft with wings c, the rotating shaft with eccentrics z, the rotating discs a1, and the funnel d1, with intermittent opening, all working together in the manner described; 2nd. The moveable recipient p, with the cloth r, constructed as described in combination with the inclined plane u, the rotating winged shaft x, the rotating shaft with eccentrics z, the rotating shaft b1, with discs a1, and the funnel d1, constructed, arranged and operating as set forth; 3rd. The ploughshare d, in combination with the bar e, the upright f, the shaft g, the lever h, the cross piece i, the segments j, and the ploughshares k, the bars l, the segments o, as described.

No. 3250. SAMUEL P. WILLEBY, Philadelphia, Penn., U. S., 27th March, 1874, for 5 years: "Improvements on Keels of Vessels." (Perfectionnements aux quilles de vaisseaux.)

*Claim.*—1st. The concave supplementary bilge keels; 2nd. The arched or rounded centre or true keel; 3rd. In combination with a vessel's hull the concave supplementary bilge keels, and the arched or rounded centre or true keel as described.

No. 3251. THOMAS A. DAVIES, New York, U. S., 27th March, 1874, for 5 years: "Signal Hand Lantern." (Lanterne de signal à main.)

*Claim.*—A signal hand lantern having a coloured shade or coloured conical cylinder J, attached to the oil cup A, by the parts described and covered from the lantern with the oil cup A, arranged to be moved vertically whereby the white light is changed to a coloured light and the coloured to a white light for making signals as described.

No. 3252. GEORGE H. DAVIS, Boston, Mass., U. S., 27th March, 1874, for 5 years: "Improvement on Upright Piano-fortes." (Perfectionnement des pianos droits.)

*Claim.*—Upright piano metallic frame A, made or provided with the shelf a, and the flange C, arranged as specified; the combination of the shelf a, and the flange C, with the metallic frame A, the wooden straining pin bar B, and the back frame D, all arranged and applied together as set forth, series of wooden plugs d, or harmonic connections with the perforated flange C, the metallic frame A, the straining pin bar B, and the back frame D, all connected and arranged as specified.

No. 3253. RICHARD SMITH, Sherbrooke, Que., 27th March, 1874, for 5 years: "Process for Reducing Wood into Pulp." (Procédé pour convertir le bois en pâte.)

*Claim.*—The process of manufacturing fibrous pulp by the application of superheated steam to the wood or other kindred substances, while chemically undergoing the process of reduction into pulp.

No. 3254. WILLIAM C. HOBBS, London, Ont., 27th March, 1874, for 5 years: "Folding Pipe Bedstead." (Couchette en tube pliante.)

*Claim.*—Connecting the head and foot frame, H, H, to the side rails B, B, so that said frames may be turned so as to lie in the same plane with and between the side rails.