

ments on Forming Seams of Boots and Shoes, &c." (Perfectionnements dans la maniere de faire les coutures des chaussures, &c.)

Claim.—1st A seam protected by an outside stay whose edges are turned under and sewed to the leather or fabric by blind stitch seams prior to the formation of the seam of the leather or fabric; 2nd. The method of forming seams in boots and shoes, the same consisting in first stitching the outside stay on the quarters and then sewing together the edges of said quarters; 3rd. The new article of manufacture, the same consisting of a boot, or shoe, the seams of which are protected by outside stays, the edges of which are turned under and sewed to the upper by blind stitch seams.

No. 5221. GREGORY S. THOMPSON, Port Hope, Ont., 2nd October, 1875, for 5 years: "Improvements on Threshing Machines." (Perfectionnements aux machines à battre.)

Claim.—In combination with the cylinder of a threshing machine, the sliding plate C, consisting of a series of curved or straight bars C₂, attached at equal or unequal distances apart, to a cross-head C₁, or its equivalent, the said cross head being provided with one or more rows of teeth D.

No. 5222. JOHN NICKERSON, Simcoe, Ont., 2nd October, 1875, for 5 years: "Milk and Meat Safe Shelf." (Tablette de laiterie et de dépense.)

Claim.—The combination of slide-pieces a, a, and movable-bars b, b, b, fitting into the socket C, and slot d.

No. 5223. HENRY A. HOWE, Detroit, Mich., U. S., 2nd October, 1875, for 5 years: "Improvements on Harvesters." (Perfectionnements aux moissonneuses.)

Claim.—1st. A harvester platform so connected with the main frame of a harvester, that it can be swung around behind the latter; 2nd. The eye bolt swivelled in the heel of the shoe and the bearing at the front end of said shoe, in combination with the frame bar connecting it with the main frame of a harvester, and the collar-bearing sleeved in said frame-bar.

No. 5224. ROBERT L. DOWNTON, and JANE A. MILLER, St. Louis, Mo., U. S., 2nd October, 1875, for 15 years: "Middlings Purifier." (Epurateur des gruaux.)

Claim.—1st. The combination with the graded reel A, of two or more air legs E, E₁, in communication respectively with different portions or hoppers D, D₁, of the bolt chest by which the different grades of middlings as delivered from the bolt may be separately purified; 2nd. The combination of the graded reel or bolt A, clothed with different grades of cloth and two or more air legs, each air leg consisting of a series of separating chambers, having at the bottom an inclined passage for the purpose of conducting the material away from the currents of air, and introducing that material at a point above the air inlet in each successive chamber for repurification; 3rd. The combination with the separating chamber I, of the perforated equalizing partition S; 4th. The combination with the fan and the air-pipe M, leading to the dust room, and communicating with the series of separating chambers forming the leg of the setting chamber P; 5th. The combination with the graded reel or bolt A, and sets of separators or air-legs E, E₁, each having a series of separating chambers, of the pipes M, fans N, N, and separate dust room O, O; 6th. The combination with the inclined board or plate G, of the slide G₁, to partially close the passage or spout between the chambers I, 7th. The combination with the separating chamber I, of the air openings J, K, at opposite sides and in the lower portion of said chamber spreading board or plate H, and equalizing partition or board S; 8th. The combination with the separating chamber I, of the pivoted slats H, 9th. The combination with the equalizing board or plate S, in chamber I, of the hopper S₁, discharging into said chamber below the said board, 10th. In combination with a vertical series of separating chambers I, forming an air leg E, the pipe M, in communication with said chamber.

No. 5225. ROBERT L. DOWNTON and JANE A. MILLER, St. Louis, Mo., U. S., 2nd October, 1875, for 15 years: "Process of Manufacturing Middlings Flour." (Procédé de préparation de la farine des gruaux.)

Claim.—The process of manufacturing middlings flour by passing the middlings after their discharge from a purifier through or between rolls, and subsequently bolting and grinding the same.

No. 5226. CHARLES B. CLARK, Buffalo, N. Y., U. S., 2nd October, 1875, for 5 years: "Brush, Cloth and Mop Holder." (Manche de brosse, de lavette et de torchon.)

Claim.—1st. In combination with the fixed jaw a, having a slotted screw threaded shank and a nut c, applied thereto, the movable jaw b pivoted within said slotted shank and having the rear end constructed with a lever f, on which the nut c operates so that the end of said lever f will enter the slot by the movement of the nut c, and the latter overlap or enclose the end of said lever f; 2nd. The combined mop and brush holder constructed with the jaws a, b, each of which is formed with a head or rib h, on its inner and outer edges, either or both for strengthening the said jaws a, b, and permitting the latter to be cast comparatively light; 3rd. In a combined mop and brush holder the fixed and pivoted jaws a, b, each constructed with a concave surface k, k, and upper and lower series of teeth l, g, whereby the jaws are strengthened and the mop or the brush is more securely held in position.

No. 5227. HENRY A. WILLIAMS, West Medway, Mass., U. S., 2nd October, 1875, for 5 years: "Machine for Rolling Crimping Tacks, Awls, &c." (Machine à étirer les broches de cambrage, alènes, &c.)

Claim.—1st. The combination of the rollers having the coincident dies or grooves, for forming tacks, &c. provided with the raised notched surfaces forming the sides and edges of said dies or grooves; 2nd. The combination with roller dies A, B, of the feeder S, L, lever M, and cams O, and s, 3rd. The combination of cams U, and W, with lever M, feeder S, L, and the die rollers; 4th. The cams U, and W, arranged in combination with lever M, and its string P, and in relation to cam O whereby the feeder is enabled to shift back on the wire for a new hold; 5th. The grippers a, b, combined with the die rollers and the feeder S, L; 6th. The combination of grippers a, b, cutters X, y, and the feeder S, L, with the die rollers; 7th. The roller housings mounted on ways and provided with an adjusting screw in combination with automatic feed mechanism.

No. 5228. RICHARD D. CHATTERTON, Cobourg, Ont., 2nd October, 1875, for 5 years: "Railway Carriage Coupling." (Attelage de wagons de railroute.)

Claim.—The use of the tumbling catch B.

No. 5229. HELEN M. MACDONALD, Lowell, Mass., U. S., 2nd October, 1875, for 5 years: "Skirt Protector." (Protecteur de jupon.)

Claim.—A skirt protector having a fluted, plated, plain, or other border bound with or composed of enamelled cloth or other water proof material

No. 5230. FARRELLY ALDEN (Assignee of A. Alexander), Pittsburgh, Pa., U. S., 2nd October, 1875, for 5 years: "Compound Steam Engine." (Machine à deux cylindres.)

Claim.—The combination of the two steam cylinders a, and C, with an auxiliary cylinder b, each supplied with valves, ports, and pistons having a common stem d, the two steam cylinders operating alternately and alternately admitting their exhaust steam into the auxiliary cylinder b to operate the piston therein while their own pistons are balanced by the free circulation of the exhaust steam around them.

No. 5231. WILLIAM H. REED, Chicago, Ill., U. S., 2nd October, 1875, for 10 years: "Gas Carburetter." (Carburateur à gaz.)

Claim.—An air carburetter having a double convolute-wall forming two separate and independent convolute-chambers a, b, inside of a case A, in one of which chambers is an absorbent, and in the other a substance which is a poor conductor of heat.

No. 5232. ISRAEL C. MAYO, Gloucester, Mass., U. S., 2nd October, 1875, for 5 years: "Culinary Boiler." (Marmite.)

Claim.—The combination of the trough B, educt C, boiler A, condenser F, and one or more steaming vessels D, having a perforated cover E

No. 5233. ERASTUS G. GRAVES, Rome, N. Y., U. S., 2nd October, 1875, for 5 years: "Improvement in Snow Ploughs." (Perfectionnements des charrues à neige)

Claim.—1st. The wings M, hinged to the rear end of the double mould board E, in combination with the pivoted and longitudinally slotted arms N, N₁, and damping screw S; 2nd. The combination with a tapered shovel-plane A, and an adjustable double mould board E, having said form F, of the vibrating and adjustable arms or rods N, N₁, and set screw S; 3rd. The combination of an incline shovel A, having slot D, and the endwise movable mould-board F, having rock bar c of the pinion G, shaft H, sprocket wheels I, endless belts J, sprocket wheels K, and shaft L.