

No. 3073. JAMES WILSON, Kingston, Ont., 3rd February, 1874, for 5 years: "Improvements on Paddle Wheels." (Perfectionnements aux roues à aubes.)

Claim.—1st. The endless apron L having a series of buckets K, and operating within a frame A, secured to the sides of the vessel; 2nd. The endless apron L having a series of buckets K, and provided with friction rollers G, running between guide plates F, secured to the frame A; 3rd. Securing the bucket supports I, to the endless apron by the bars H, and J having pivotal connection with link plates as set forth.

No. 3074. ALEXANDER AMOS, Potsdam Junction, N. Y., U. S., 3rd February, 1874, for 5 years: "Improvements on Horse Hay Rakes." (Perfectionnements aux râtaux à cheval.)

Claim.—1st. The thimbles A, having the sockets at, made to run parallel with and to the front of bar B, so as to obtain a fulcrum on the latter, by which the teeth can be sprung into the grooves b, c, in connection with the shanks c, constructed to permit the teeth to lie squarely against the same; 2nd. The angular projection I, secured to the lever F, having pivotal connection at the front of the machine and foot lever d, in combination with the hooked lever H, presser bar E, lever D, chain i, connecting rod g, provided with holes and lifting bar E, the whole constructed and arranged in the manner set forth; 3rd. The latch / in combination with connecting rod or bar p, clevis lever D, bar E, and teeth a, constructed and operating as set forth; 4th. Securing the outer teeth of the rake in a fixed manner, whereby the said teeth shall only be lifted by the operation of the bar E, as set forth.

No. 3075. COLIN MCPHAIL, Big Harbour, N. S., 3rd February, 1874, for 5 years: "Armour for War Ships." (Armure de vaisseaux de guerre.)

Claim.—Providing the sides of a ship with an armour B, fitting into a recessed hull, and so hinged thereto that it can be adjusted to an inclined position for the protection of the hull and deck.

No. 3076. CHARLES H. CHAPMAN, Shirley, Mass., U. S., 3rd February, 1874, for 5 years: "Tape Weaving Loom." (Métier à tisser le galon.)

Claim.—1st. The weft rod D, when made with the projection or boss D³; 2nd. The combination of the feeder lever T, the bent lever T², T³, and latch T, with the rod K³; 3rd. The weft rod D, link D², lever D, with the cam C²; 4th. The device for throwing the shuttle, the lever K²; 5th. The combination of the cams N², N³, and the rocker K, with the levers P, Q, and j awls P², Q², operating as described.

No. 3077. WILLIAM MCALLISTER, Lawrence, Mass., U. S., 3rd February, 1874, for 5 years: "Improvements for Protecting Buildings from Fire." (Dispositions pour la protection des édifices contre l'incendie.)

Claim.—The deflector D, and the two gutters b, b, arranged together, and with the roof a, a, and conduit c, in the manner described; the gutter B applied to the roof or side of the building, so as to be capable of being turned from a horizontal an inclined position, or vice-versa; the separate spout p, combined and arranged with the gutter B, provided with the duct o, and applied to the roof or side of the building so as to be capable of being turned from a horizontal into an inclined position or vice-versa; the deflector k arranged with the front of the building and with the rotary gutter; the deflector D and the rotary gutter applied to the roof in combination with one or more conduits for discharge of water against such deflector; The deflector D, and the lateral or end deflector or deflectors f, arranged and combined with the ridge of the roof and the end or ends of the building and provided with water supply conduits as specified.

No. 3078. JOHN WOOLRIDGE, Dean's Corners, Ill., U. S., 3rd February, 1874, for 5 years: "Improvements on Land Rollers." (Perfectionnements aux brise-mottes.)

Claim.—1st. Two rolls J, J, connected by a two part bar B, that is attached to the tongue, at an oblique angle, and of which the lower section is pivoted in the manner described; 2nd. The means described for holding the rolls to each end of the bar B, so that they may turn laterally in passing over obstructions consisting of

the frames H, and blocks G, constructed and pivoted together as set forth; 3rd. The means described for allowing the pivoted section of the bar B to stand still while the roller is being turned at the end of a land and yet to be automatically locked by the moving forward of the team, consisting of the oblique grooves and over hanging lip at the outer end of each section of bar B, constructed as specified.

No. 3079. WILLIAM C. DAVOL, Jr., Fall River, Mass., U. S., 3rd February, 1874, for 5 years: "Fire Hose Leak Stopper." (Arrête-fuite d'eau de tuyaux élastiques.)

Claim.—The flexible hose leak leather stopper A, in combination with the bars B and J, with rivets c, c, and i, i, holes d and k, set screw D recesses f, f, projection F and pin p, as set forth.

No. 3080. JOHN HILTON, Carter's Depot, Ten., U. S., 3rd February, 1874, for 5 years: "Fever Specific Compound." (Composition spécifique pour la fièvre.)

Claim.—A compound of the extract or powder of the astilbe decandra with distilled water or arnica in the proportions set forth.

No. 3081. ROBERT H. HUDGIN, Howard, Ont., 3rd February, 1874, for 5 years: "Construction of Gate Posts." (Confection de poteaux de barrières.)

Claim.—1st. The combination of the pieces of plank or boards, together with the prepared rails as seen in figure 1, and marked 0000, forming the post A, in the same figure; 2nd. The combination of the sill S, brace T, together with the pieces of plank, forming the post as in figure 3.

No. 3082. MAXIMILIAN BOCK, Brooklyn, N. Y., U. S., 3rd February, 1874, for 5 years: "Improvements on Shoe Fasteners." (Perfectionnements aux agrafes de souliers.)

Claim.—The fastener composed of the united links B, C, of which one is shorter and narrower than the other so that it can be folded into the same as set forth.

No. 3083. JOHN ROGERS, Brooklyn, N. Y., U. S., 3rd February, 1874, for 5 years: "Furnace for Manufacturing Lamp Black." (Fourneau de fabrication du noir de fumée.)

Claim.—1st. An apparatus for producing lamp black, consisting of the furnace B, having the bars a, a, perforated plate or grate c, and the air opening d, beneath the grate, all arranged as described; 2nd. The combustion pan A, of a lamp black apparatus, made annular with a central perforated air pipe i; 3rd. The lamp black furnace B, made with double walls d, m, which are perforated at n, and o, respectively.

No. 3084. L. D. SAWYER, H. P. COBURN & J. AMES, (Assignees of L. B. Hoit,) Hamilton, Ont., 4th February, 1874, for 5 years: "Corn Sheller." (Egre noir à blé-d'inde.)

Claim.—The hand corn sheller as described consisting of the frame stationary ribbed face plate A, with hopper F, adjustable spring H, rotating disc B, with crank arm K, central shaft C, spring D, and the adjusting devices L, M, also apron I, all constructed and arranged to operate as specified.

No. 3085. JAMES FOLEY, Montreal, Que., 10th February, 1874, for 5 years: "Machine and Process for Making Bark Extract for Tanning and other purposes." (Machine et procédé pour faire l'extract d'écorce pour le tannage et autres fins.)

Claim.—1st. The manufacture of extract of bark, the filtration of the liquor obtained by leaching, by passing it through a bed or beds of animal or vegetable charcoal or spent tan bark, separately or