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## RECORD




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### INVENTIONS PATENTED.

No. 3369. HARRY R. BARNES, Rock Stream, N. Y., U. S., 27th April, 1874, for 5 years: "Improvement on Hoes." (Perfectionnement des houes.)

*Claim.*—The single bladed hoe, having teeth on its cutting edge, struck up or corrugated, as described, when said teeth are turned or deflected inward from the blade of the hoe so as to stand at an angle thereto, and but slightly inclined from the surface of the soil, and be thereby self entering at the drawing movement, and when said teeth have their edges made plain and straight from point to base for the purpose of grinding as described.

No. 3370. ASHLEY D. COLE, Toronto, Ont., 27th April, 1874, for 5 years: "Improvements in Turbine Water Wheels." (Perfectionnements aux turbines hydrauliques.)

*Claim.*—1st. The hinged gates C, placed within the water passages b, and connected to and worked from the moveable ring D, or its equivalent, by the links G, arranged and operated as described. 2nd. The hinged gate C, in combination with the socket c, as described.

No. 3371. WILLIAM ELLWOOD, (Assignee of W. Bowden,) Hamburg, N. Y., U. S., 27th April, 1874, for 5 years: "A Tyre Upsetter." (Machine à refouler les bandages de roues.)

*Claim.*—1st. The shaft E, with the double eccentric e, e, rods E<sub>1</sub>, and couplings E<sub>2</sub>, in combination with the peculiarly shaped sliding block B, arranged and operating as described; 2nd. The sliding reciprocating blocks B, heads B<sub>1</sub>, with broad bevel faces b, pins h, and toothed cam wedges H, and toothed adjustable clamps F, in combination with the hinged lever c, bar f, spring D, and cleats d, arranged as described; 3rd. The saddle C, bolted to the frame A, in combination with the sliding blocks B; 4th. The peculiar shape of the frame A, with grooves a, in combination with the whole of the mentioned working parts as described.

No. 3372. DANIEL PERRIN, McGregor, Iowa, U. S., 27th April, 1874, for 5 years: "Improvement on Cutters for Tonguing and Grooving Lumber." (Perfectionnements des fers de bouevts.)

*Claim.*—The cutter C, made of equal breadth width and half the depth or thickness of the cutters A, B, to adapt them to be used in pairs as described.

No. 3373. JONATHAN HALL, Keene, N. H., U. S., 27th April, 1874, for 15 years: "Improvement on Steam Boilers." (Perfectionnement des chaudières à vapeur.)

*Claim.*—A feed water distributing and blowing off pipe A, with slots or perforations U, in the under side arranged along the bot-

tom of the boiler, and provided with an outside feed water connection, C, D, blowing off G, and cock E, as specified.

No. 3374. GEORGE BRADFORD, Toronto, Ont., 27th April, 1874, for 5 years: "Improvements in Oil Bearings." (Perfectionnements aux coussinets à huile.)

*Claim.*—1st. Fastening a collar D, at that point where the bearing is formed on the shaft B; 2nd. A reservoir C, containing a liquid lubricant in combination with a collar D, and saddle F, arranged and operating as specified.

No. 3375. WILLIAM G. RAWBONE, Toronto, Ont., 27th April, 1874, for 5 years: "Breech Loading Cartridge Creaser." (Suage à cartouche de chargement par la culasse.)

*Claim.*—1st. The fixed or adjustable rammer head D, attached to the stem or leg a<sub>1</sub>, in combination with and hinged to the upper leg a, having attached to its front end the fixed or adjustable creaser bit C, the whole forming the creaser A, arranged and operating as described. 2nd. The fixed or adjustable socket head D<sub>1</sub>, attached to the stem or leg a<sub>1</sub>, in combination with and hinged to the upper leg a having attached to its front end the fixed or adjustable creaser bit C the whole forming the creaser A, arranged and operating as described.

No. 3376. JAMES M. DICK, Buffalo, N. Y., U. S., 27th April, 1874, for 5 years: "Improvements on Wool Drying Machines." (Perfectionnements aux machines à sécher la laine.)

*Claim.*—1st. The combination of the feeding and expressing rollers J, guide plate O, and the air blast generator C; 2nd. The combination of the expressing rollers J, grated surface P, and the air blast generator C; 3rd. The combination of the air-blast generator C, revolving picker F, and the grated surface P; 4th. The combination of the air-blast generator C, with the adjustable spout or tube R; 5th. The combination of the receptacle or wool box S, having the grates T, and C, with the air-blast generator C.

No. 3377. JAMES GOODWIN, Lennoxville, Que., 29th April, 1874, for 10 years: "Invalid Bedstead." (Couchette d'invalid.)

*Claim.*—1st. The combination of a tick stretching frame D, and elevating posts C, applied to a bedstead and operating as set forth; 2nd. The frame D, constructed with head and foot frames E, F, hinged thereto and capable of being elevated and depressed inclinedly as set forth; 3rd. The combination of the shaft a, arms b, connecting rod c, pulleys d, and e, and cords e applied to a bedstead as set forth, for operating a seat attached to the rod c, in the manner described.

No. 3378. JAMES GOODWIN, Lennoxville, Que., 29th April, 1874, for 10 years: "Improvements on Churns." (Perfectionnements aux barattes.)

*Claim.*—1st. The combination of the rotary shaft B, sleeve C, and cog-gears E, F, I, J, and K, for revolving the dasher heads in opposite directions; 2nd. Dasher heads having the cruciform pieces K<sub>1</sub>, and perforated da h boards L<sub>1</sub>, the arms M, set inclinedly in the cross-pieces K<sub>1</sub>, for the purpose set forth.

No. 3379. EDWARD BAINES, Toronto, Ont., 30th April, 1874, for 5 years: "Improvements on Valve Motion for Steam Hammers." (Perfec-