No. 4691. Theodore Fitz Randolph, Morristown, N. J., U. S., 28th April, 1875, for 5 years: "Ditching Machine." (Machine à lossoyer.)

Claim.—1st. The combination of the sliding block P, screws Q, S, arm R, and shoo O, the latter being proteed between its extremities and near the middle thereof, to the sliding block, and rigidly secured to or formed in one piece with the arm R: 2nd The bail-hearing D, privite E, and lugged plate F, in combination with the king bolt G, the forward axis II. and the forward draft bar C, of the ditcher; 3rd. The combination of the two drains 1, the two screw wheels II, the two swivelled screws I., J, and the two cords or chains Ki, with the frame work B; B, of the ditcher and with the axis L, swivelled to the rear e d of the rear draft bar K, of the ditcher; 4th. The combination of the swivelled screw red D), the two swivelled screw wheel nuts C, and the two screws A; with the front and rear traft bars C, K, and with the frame work II, B, and ditching wheel A.

No. 4692. ALLAN CUMMINGS, New York, U. S., 28th April, 1875, for 5 years: "Improvements on Screws." (l'erfectionnements aux vis.)

Claim—1st. A scrow or bolt of any form or shape, the head of which is provided at its centre with an angular, oval, oblong or round car 'you hole either with or without the use of the usual slot, 2nd A scrow or holl provided in its head with a half round slot, either with or without a cavity extending below it, to take the place of the orinary slot, 3rd A screw or bolt provided in its head with a V shaped slot, either with or without a cavity extending below it, to take the place of the ordinary slot.

No. 4693. EBENEZER HILL, Jr., South Norwalk, Ct., U.S., 28th April, 1875, for 5 years: "Improvements in Linings for Cylinders." (Perfectionnements des renforts de cylindres.)

Claim.—The combination of a lining B. having a finge b, and a stuffing box C, provided with a scrow throad to secure the lining in a cylinder A.

No. 4694. ALEXANDER MITCHELL, Wilkesbarre, Pa., U.S., 28th April, 1875, for 5 years: "Spark Arrester.' (Arrête-flammèches.)

tlaim.—1st. A spark disintegrating screen in which notched bars (I. G. are combined with two sets of reds; 2nd. In a locomotive smoke box, the tubes I. having flaring lower inds and communicating above with the chimney in combination with nozzles m, from which jots of live steam may be projected into said tubes.

No. 4695. JOHN J. COBB, Grand Rapids, Mich., U. S., 28th April, 1875, for 5 years: "Improvements on Sides and Wings for Cutter Sleighs." (Perfectionnements aux caisses de traineaux.)

Claim.—1st. The metallic cutter sides U. R. L. with flanges S, and mouldings N. E; 2nd. The body-sill G, bent at the joint M, forming an arch either of one half or of the entire back of cutter; 3rd The metallic wing B, with flanges A. A. divided near the centre of wing B, and each flange bent at right angles with the concave portion of the same.

No. 4699. RANDALL BENTLEY, Owen Sound, Ont, 28th April, 1875, for 5 years: "Improvement on Roofs for Buildings." (Perfectionnements aux toitures de bâtiments.)

Claim.—1st. The cutting of square scantling diagonally in two E. E. 2nd The cutting of the rectangular troughs and pieces A. B. C. D. A. B. C. D. from each of the triangular pieces E. F. E. E. F. 3rd. The combination of the rectang lar troughs an i pieces A. B. C. D. A. B. C. D. in the construction of roofsof buildings,

No. 4697. James E. Wisner, Friendship, N. Y. U. S., 28th April, 1875, for 5 years: "Fertilizer Sower." (Distributeur d'engrais.)

Claim.—1st. The combination of two independent wheels and axles with the two independently moving feed-rollers F, G; 2nd The feed-rollers F, G, on bined with the adjustable inclined plates or blocks I, arranged with their rear edges, overthecentres of the rollers.

No. 4698. CHARLES R. SNYDER, Minneapolis, Ma., U. S., 28th April, 1875, for 5 years: "Ladies' Work Table." (Table à ouvrage.)

Claim—A lady's work-table constructed with compartments or drawers, and provided with the tap A. removable from the frame by means of side arms B. or other manner, whereby the top can be drawneyer and adapted for use as a lap-beard.

No. 4699. HENRY BEHNIN, and JUSTUS DIEHL, New-York, U. S., 28th April, 1875, for 5 years: "Improvements on Pianoes and Organs." (Perfectionnements aux pianos et aux orgues.)

Claum.—A name board for pianes or organs having a longitudinal concave groups cut into the front or outer side.

No. 4700. CHARLESW. JENKS, Somerville, Mass., U. S., 28th April, 1875, for 5 years: "Shirt Bosom." (Devant de chemise.)

Claim.—1st. An open front or open side shirt on which the lower half or portion of the beson is unattached to the shirt front, except by the upper portion or rost of the said beson, being sewed or connected at its edges to the front, 2nd In combination with the beson B, made whole or in pieces of one or more solid backs D, E, of linen or other proper material.

No. 4701. CHARLES KENNEDY, Aurora. Ill., U. S., 28th April, 1875, for 5 years: "Wire Fence." (Cloture en fil métallique.)

Claim.—1st. A fence wire provided with indentations c or bends d, to prevent the barb, from slipping or turning on the wire. 2nd. A barb for a wire fence having a slotted or open cylinder or extension a. 3rd. A wire ione consisting of posts. A, wires B, and barbs E, secured to the wires by pressure.

No. 4702. Peter Gendron, Toledo, Chio, U. S., 29th April, 1875, for 5 years: "Carriage Wheel." (Roue de voiture.)

Caim. — A vehicle wheel having its hub A. B. β , east in one piece with sockets for receiving the hocks d, in combination with the caps b, nuts h, and spokes D, having hooks h.

No. 4703. Samuel Morrell, and Christopher Reinhardt, Montreal, Que., 29th April, 1875, for 5 years: "Spring Bottom Bedstead." (Couchette à fond à ressort.)

Claim.—1st. In combination with any bodstead, the rods E. E. holding the ends of the slats F. and secured by springs to the head and foot of the bedstead; 2nd In combination with the longitudinal framing of any doubling up bed-tend the combination of the rods C and E. springs D and slats F: 3rd In combination with any bed-tend, the bars I. carried at both on a by springs K, attached to the rails L, and supporting bars H, on which the slats F. rost.

No. 4704. John Moulton, Ossipee, and Samuel R. Thompson, Portsmouth, N. H., U. S., 29th April, 1875, for 5 years. "Bark Rasping Machine." (Machine à triturer l'écorce.)

Claim.—1st. The combination of the drum D. having spirally arranged cutters and journalled in the hed-plate B, with the hinged frame K, having serews f and spring-have, e. e., the latter carrying the drum L, and rollers M. N. of the spurred bars d, the drum D, being rot ted in an opposite direction to he rotation of the drum L, and rollers M, N. 2nd. In combination with rotating endless spurred bars and rotating cutter drum of a bark ra-ping machine, an adjustable see onal bad plate B, supported by a lever T. 3rd. The combination of the belt-pulsey S, hand lever R, notched flange g, at d belt pulley F.

No. 4705. EDWARD W. GRANT, (Assignee of H. Niemann), Ypsilanti, Mich., U. S., 29th April, 1875, for 5 years: "Improvements on Step-ladders." (Perfectionnements aux échelles à queues.)

Claim.—1st. The combination with a step-ladder, having rear legs hinged thereto, of the plates E. provided with longitudinal sluts θ , and transverse sluts d, and brace θ , provided to the lower end of the rearlegs, and connected at its upper end by rod: 2nd. The feet h, h, pivoted on the lower ends of the legs D.

No. 4706. John Doman, Owen Sound, Ont, 30th April, 1875, for 5 years: "Snow-plough." (Charrue à neige.)

C'rim—lst. The inclined plane A, with sides C, C, in combination with the slotted guides H, H, and lifting screw K, ind. The projecting wings B, B, with sides C, C, C, C, L, tanged or stationary as may be found most suitable and convenient. 3rd The vertical knives E, E, and herizontal knife F, in combination with the inclined plane A, and sides C, C, 4th The guide P, hinged in combination with the wings B, B, and sides C, C, C, C, C; 5th. The combination of the whole.