No. 5288. GEORGE F. SIMONDS, Fitchburg, Mass., U. S., 23rd October, 1875, for 5 years: "Apparatus and Process for Tempering and Straightening Saws without Hammering." (Appareil et procédé de trempage et dressage des scies sans marteau.)

Claim.—1st. Formers *c*, *c*, constructed with a cross-grooved face; 2nd. The combination of formers for holding articles to any required position, with an air tight chamber D; 3rd. The combination of formers for holding articles to any required position, with an air tight oven D, inclosed in a heating furnace; 4th. The combination of formers *c*, *c*, revolving shafts *b*, b^1, and screws *f*, *f*, with oven D, enclosed in heating furnace; 5th. The combination of formers *c*, *c*, and revolving shafts *b*, b^1, with oven D, enclosed in heating furnace; 6th. In combination with a tempering oven revolving vertical formers; 7th. The improved process of tempering and straightening saws by means of heat and pressure and without hammering the saw being protected from atmospheric currents.

No. 5289. GABRIEL LEVERICH, Brooklyn, N. Y., U. S., 23rd October, 1875, for 5 years: "Improvements on Elastic Hubs for Vehicles." (Perfectionnements aux moyeux élastiques de roues.)

Claim.—1st. The recessed or slotted annulars C^1, and the radial spur *c*, of the box or bearing D, in combination with the hub A, and a cushion or cushions; 2nd. An elastic hub, the combination of the internal sleeve G, to prevent radial play of the box or bearing D, with the said bearing and one or more elastic cushions B, or C, the said sleeve to close the inner ends of the spoke mortises; 3rd. The elastic hub comprising the box or bearing D, with one or more circumferential shoulders provided with the nut F, at its outer ends and having the radial spur *b*, one or more elastic cushion B, C, the annulus C^1, and the sleeve G, to permit radial play of the box D.

No. 5290. WATSON P. WIDDIFIELD, Siloam, Ont., 23rd October, 1875, for 5 years: "Improvements in Wheeled Vehicle Brakes." (Perfectionnements aux freins de voitures à roues.)

Claim.—1st. The draw-bar H, pivoted lever I, chain I^1, and swinging shaft D, in combination with the axle C, or its equivalent; 2nd. The friction wheel E, with clutches E^1, and E^2, operates from the axle C, in combination with the shaft D, with pins *d*, and d^1; 3rd. The shaft D, eye bolts *g*, chains G and G^1, and brakes K, in combination with the wheels B; 4th. The lever F, quadrant F^2, with notches *f*, lever F, in combination with the wheel E.

No. 5291. WILLIAM E. ANDREW, New-York, U. S., 23rd October, 1875, for 5 years: "Process for Making Butter from the Oils of Animal Fat." (Procédé de confection du beurre avec les huiles de gras animal.)

Claim.—1st. The process of obtaining a product as a substitute for cooking butter, consisting of churning by itself suitably prepared oil obtained from animal fat whereby the oil globules are broken up and afterward subjecting it to a low temperature; 2nd. The process of manufacturing artificial butter by churning by itself suitably prepared animal oil and then combining the product thus obtained with butter already formed from cream the oil product being placed in the churn and churned until a thorough amalgamation is effected when the mass will partake of the flavour of natural cream butter; 3rd. The product consisting of animal oil alone and of the character described, having the globules broken up and having the appearance and consistency of butter.

No. 5292. CHARLES MARTIN, Toronto, Ont., 23rd October, 1875, for 5 years: "Ventilator." (Ventilateur.)

Claim.—The revolving or fixed hood B, having the trumpet-mouth B^2, centrally placed frustum of cone C, and tapering or parallel discharge-end B^1, in combination with the shaft A.

No. 5293. SAMUEL B. STRONG, Albion, N. Y., U. S., 23rd October, 1875, for 5 years: "Improvement in Pumps." (Perfectionnement dans les pompes.)

Claim.—The combination of the racks *a*, *a*, pinions *b*, *b*, racks D, D, handle C, casing B, pump stock A, and piston rod E.

No. 5294. NELSON KIMBALL, London, Ont., 23rd October, 1875, for 5 years: "Portable and Stationary Fence." (Clôture portative et fixe.)

Claim.—1st. The arrangement for fastening the fence by the wood or iron pin *b* passing through (and securing) the projecting top rail of fence into the top rail of adjoining panel; 2nd. Securing the fence at the bottom by the overlapping bottom rails secured by the wood stake *a*, or by the iron stake *d*, or by the iron rod *c*, secured to the anchor block *e*, 3rd. The iron pin *b*, the iron stake *d*, the rod *c* and the anchor block *e*, the top rail notched into post and the overlapping bottom rails of fence.

No. 5295. GIDEON W. COTTINGHAM, Rockport, Texas, U. S., 23rd October, 1875, for 5 years: "Sad Iron." (Fer à repasser.)

Claim.—1st. The grate G, of the longitudinal bars *a*, having draft openings *x*, near the upper edge and grooved longitudinally on the under side; 2nd. The combination of the grooved and perforated grate G, and the end plate D, with lower draft openings *y*; 3rd. The combination of the hollow iron A, pan C, end plate D, with draft openings *y*, *z*, and the grate G.

No. 5296. GIDEON W. COTTINGHAM, Rockport, Texas, U. S., 23rd October, 1875, for 5 years: "Clothes Ironing Machine." (Machine à repasser le linge.)

Claim.—1st. An ironing board elevated above the reciprocating table or carriage leaving an open space between them, upon which it is supported; 2nd. A reciprocating carriage and an elevated ironing board supported thereon and capable of being raised from either end or entirely removed; 3rd. The combination of the reciprocating table or carriage B, end supports D, D, with pins *i*, *i*, and the ironing board E; 4th. The combination of the iron G, pivoted arms H, and a treadle L, connected to the arms whereby the iron may be pressed down with any desired pressure on the ironing surface; 5th. The counter balancing weight M, in combination with the treadle L, connections *f*, K, J, arms H, and iron G; 6th. The arrangement with the carriage B, cords *e*, pulleys or drums C, C, and shaft *a*, of the gearing N, O, P, shaft *n*, and crank R.

No. 5297. JACOB B. SLICHTER, Kalamazoo, Mich., U. S., 30th October, 1875, for 5 years: "Elastic Paint Compounds." (Composé à peinture élastique.)

Claim.—Elastic paint composed of linseed residuum and dead oil naphta, rosin, asphaltum, Venitian red, and oxide of iron compounded.

No. 5298. JACOB B. SLICHTER, Kalamazoo, Mich., U. S., 30th October, 1875, for 5 years: "Fire-Proof Roofing Cement." (Ciment réfractaire à toitures.)

Claim.—Mastic roofing cement composed of asphaltum, residuum oil, ground silica, oxide of iron, and soluble or water glass or other alkaline substance or solution compound.

No. 5299. JACOB B. SLICHTER, Kalamazoo, Mich., U. S., 30th October, 1875, for 5 years: "Elastic Fire-Proof Paint." (Peinture élastique réfractaire.)

Claim.—A fire proof paint composition composed of linseed oil, naphta, soluble glass, chloride of calcium and gum, rosin or turpentine, with or without the addition of asphaltum compounded.

No. 5300. JAMES H. TACKABERRY, East-Tilbury, Ont., 30th October, 1875, for 5 years: "Buggy Top." (Couverture de voiture.)

Claim.—A jointless buggy top in combination with straps A, A, hooks C, and D, and hinges E, E, arranged in such a manner that the buggy top can be attached to any ordinary buggy seat or the seat of a waggon.

No. 5301. WILLIAM C. PEEL and JUSTUS V. ELSTER, Springfield, Ohio, U. S., 30th October, 1875, for 5 years: "Improvements on Dash-Boards for Vehicles." (Perfectionnements aux garde-crottes de voitures.)

Claim.—1st. A dash cover made of one piece of leather or other suitable material doubled across its centre or thereabout, and having a metal tube or moulding slipped over the bead or swell produced by said doubling; 2nd. In combination with leather C, of dash board A, the tube or moulding *a*; 3rd. The combination of tube or moulding *a*, with leather C, of dash board A, and the retaining screws *b*.

No. 5302. FERRAND G. WALLACE, Waterloo, Iowa, U. S., 30th October, 1875, for 5 years: "Improvements on Mill-Trams." (Perfectionnements dans la suspension des meules.)

Claim.—1st. The combination with a rocking bed stone, a runner G, a spindle F, and a bush E, of a spindle packing device for preventing the downward passage of flour through the eye of the bedstone; 2nd. In combination with a rocking bedstone A, runner G, spindle F, and bush E, the spindle packing device consisting of a packing disc secured between the plate H, having projections *g*, and plate K, applied to the bed stone.

No. 5303. WILLIAM D. BARTLETT, Amesbury, Mass., U. S., 30th October, 1875, for 5 years: "Improve-