ation for operating the creaser such consisting of the toggles C C1, furented mass so operating the creater such consisting of the toggles C(C), fireafted puttain E, stops g,g, projections $f,\ f$, and the cams $h,\ h,\ k$, the latter being fixed on the driving shaft.

No.. 6167. Improvements on Butter Workers.

(Perfectionnements aux appareils à apprêter le beurre.)

James Macnee, Webster City, Iowa, U.S., 26th May, 1876, for 5 years.

Claim.—1st. The combination with a suitable kneading board or table, of the removable hand lever C, the same being connected to the table in a manner so that other side of such lever may be used, 2nd. The combination with the table A, and revolving kneading beard B, provided upon its outer periphery with teeth or projecting pluss, of the swivelled hand lever C, having near its outer end plus J, J.

No. 6168. Boot and Shoe Sewing Machine.

(Machine à coudre les chaussures.)

Charles Goodyear, Jr. (Assignee of Christian Dancel), New York, U. S., 26th May, 1876, for 5 years.

Claim.—Ist, In a machine designed and adapted to sew unseams or wells and turns, the use of an awl, or piercing instrument to penetrate the sole transversely to the path of the awl or needle, so as to pin the sole his place and hold the between substance of the sole firmly while the needle is piercing the work and tightening the stitch. 2nd. The combination with an awl and needle of a third piercing device operating transversely to the others, and near the path of the same to prevent the stitch from pulling through or breaking out and to keep the seam in place. 3rd Incombination with a circular needle operating from the outer edge of the work, an awl working concentrically or nearly so, with said needle piercing the work in the inside channel and operating as an awl feed in connection with the channel gauge; 4th. The combination of a curved awl, and a channel guide operating together in a channel to feed, guide and hold the work: 5th. Giving to the well guide a positive motion away from the shoe intermittently between each slitch; 6th. So regulating said motion of the well guide that it shall move away from the shoe a uniform distance irrespective of variations in the thickness of the upper 7th. The arrangement of the locking devices for locking and releasing the back, or edge and welt gatges; 8th. The arrangement for regulating the length of the loop according to the thickness of the work to be sewn. 9th. In combination with a circular awl and needle mounting the edge or welt guide upon a slide moving to and from the work at a suitable angle with reference to the last instead of concentically with the needle; 10th. In mounting the awl in such a manner that it will have an independent oscillating or tipping motion.

No. 6169. Process of Manufacturing Artificial Claim .- 1st. In a machine designed and adapted to sew inseams or welts

No. 6169. Process of Manufacturing Artificial Stone. (Procédé de fubrication de la pierre artificielle.)

William H. Smith, Philadelphia, Pa., U. S., 1st June, 1876, for 5 years,

Claim .- The mode or process of manufacturing artificial stone, that is to say : subjecting granulated or pulverized mineral substances, while in the damp condition and while in a mould, first to comparatively—slight pressure or light blows, and then to heavy blows.

No. 6170. Improvements on Tallies.

(Perfectionnements aux compteurs.)

John French, St. Columban of Sillery, Que., 1st June, 1876, for 5 years. Chann,—1st. The combination of the wire C, walking beam D, and its spring E, hook F, and its spring I, taily wheel G, and its cog a, and spring II, with sliding pair B, taily errele Q, and its hand c, of the unity box A, or count one taily , 2nd. Thee combination of the large wheel J, its series of pairs K, and its cog h, spring T, striking apparatus L, with the gong M, the tailly circle S, and its hand g, of the taily box A, to count fifty tailines, Jrd. The combination of the wheel N, and its pins m, with circle R, and its hand p, of the taily box A, to count up to six thousand pieces.

Hoop Cutting Machine. (Machine à tailler les corcles.) No. 6171.

George V Griffith Huntington Ind. U.S. 1st June 1876 for 5 years

-1st. The combination of a reciprocating knife E, with an oscillat' Claim—181. The combination of a reciprocating knife E, with an oscillate atog table G whose inner edge forms the axis of oscillation, for the purpose of supporting the hoop planks close to the cutting edge of the knife, 2nd. The oscillating table G adapted for adjustment to and from the hnife, 3rd. The oscillating table operated from the main shaft, through the median of the gerring, the cams M the pivoted arms J, and the connecting rods and links L K. 4th The oscillating table having the extent of its oscillations adjustable by means of the screw rods L, and pavoted links K, 5th. The yielding stop or gage Q, combined with the reciprocating knife and oscillating table—6th The yielding stop or gage Q, adapted for adjustment to regulate the thickness of the hoops.

No. 6172. Improvements in Eye Glasses.

(Perfectionnements and pince-nez.)

Isaac Alexander, Washington, D. C., U.S., 1st June, 1876, for 5 years.

Claim.—1st. The spring clamp for eye glasses made adjustable by a set screw; 2nd. The spring A, for eye glass clamps, made adjustable.

No. 6173. Improvements on Charcoal Furnaces.

(Perfectionnements aux fourneaux à charbon de bois.)

Edwin G. Adams, Cohoes, N. Y., U. S., 1st June, 1876, for 5 years.

Claim.—The combination in a case having grate C, and a closed top of the flue F, with or without the hood E, and the inclined sides D, of the fire box.

No. 6174. Combined Milk Cooler and Pan. (Botte-réfrigérateur à lait.)

Nelson D. Ferguson, Carthage, N. Y., U. S., 1st June, 1876, for 5 years.

Claim.—Ist. The combination with a milk pain B, of an ice cooler consisting of the cylinder C removable in receptacle K, perforated bottom tubes G, cover H, with tube I, and valve or cap B: 2nd. The perforated bottom I, connecting with the cylinder C, and with heating pipes L, under the pain B, 3nd The frame A, having a curvas bottom, in combination with the pan B.

No. 6175. Fare Registering Apparatus.

(Appareil à enregistrer les billets de passage.)

Henry T. Davis, London, Eng., 1st June, 1876, for 5 years.

Claim.—1st. A glazed opening B, in the front lid and display plate for displaying a figure or figures denoting the value of fare or monies received whether in combination with a lamp or otherwise; 2nd. The handles 1.2.34 and parts in connection therewith for actuating the registering wheels G. H. I, and hell plate K, to strike the bell, and register, and display the figure. 3rd. The bell plate K with study for acruating and study, for actuating the humaner of the bell simultaneously with the displaying of the figure, and the actuating of the registering parts.

No. 6176. Improvement on Lap Robes.

(Perfectionnement les tabliers de voitures,)

James Milwain, Albany, N. Y., U.S., 1st June, 1876, for 5 years.

Claim -The combination of the lap robe A, with the foot pockef B. No. 6177. Improvement on Carriage Rugs.

(Perfectionnement des tapis de voitures.)

James Mitwam, Albany, N. Y., U. S., 1st June, 1876, for 5 years.

Claim.—The combination of the carriage rug A, with the foot pocket B

Bosom Pad. (Trompe-l'ord.)

John C Tallman, New York and Flavel W Sullivan Newark, N. J. U.S. 1st June, 1876, for 5 years.

Claim - A bosom pad made of thin sheets of cork covered with muslim moulded or pressed into proper shape as also in the gusset, connection or centre piece and cover A,B,C,D.

No. 6179. Improvements on Anchors.

(Perfectionnements aux ancres.)

Thomas J. Whitecar and John M. Powell, Philadelphia, Pa., U. S., 1st June 1876, for 5 years.

1876, for a years.

Claim.—1st. The double ended tripper—, engaging with the arch Br, and limiting the movement of the arms B. B. by impinging against the block F, or band G. 2nd. The combination of the wedge block I, with the bitarcated shank A, and tripper I; 3rd. The combination with the notched fluke arms B, of the separately formed notched palms D, inserted in the notches b, and receiving the arms B, in the notches d, 4th. The combination of the bifurcated shank A, inserted tripper E, eneircling fluke arms and arch, 5th. The combination of the shank A, fluke arms B, B, arch Be, double, acaded tripper E, and wedge block or band double ended tripper E, and wedge block or band

No. 6180. Improvements on Volta-electric Appliances.

(Perfectionnements aux procedes electro-voltaiques.)

John E. Hetherington, Cincinnati, Ohio, U. S., (Assignee of Isaac L. Pulvermacher), 1st June, 1876, for 5 years.

Claim.—1st. A voltaic electric chain or belt constructed of alternately arranged zinc or copper strips or plates A, B, notched or looped, and string upon twinc or cord, 2nd. Arranging the strips or plates A, B, in alternate order, in two series upon a suitable backing so as to be folded together upon an interposed wet conductor

No. 6181. Improvements on Volta-electric Appliances.

(Perfectionnements and procedes electro-collaques.)

John E. Hetherington Cincinnati Ohio U.S. (Assignee of Isaac L. Pulvermacher), 1st June, 1876 for 5 years.

macher), 1st June, 1876 for 5 years.

Claim.—1st. The arrangement of a series of copper and zinc disks, dished or coned in alternate order with a fibrous absorbent material interposed between members of the same element apon a hollow central stern supposed with the exciting fluid and shifted or performed to cause the passage of the exciting fluid from the tube to the absorbent material between the disks, the whole to form a battery, 3rd. The combination of a fieldle tube C, and a rigid fluid or corrugated central cone. D. with concave or distinct copper and zinc disks A, B, to form a battery, 3rd. The radially stotted disks, provided with longues c, c, at intervals for the opposite metal disk of the adjoining element to rest upon, 4th. The disk having a stot F, from the periphery to the centre and thread sewed into it in concentre circles 5th. Batteries formed of disks on a hollow central stern, the disk constructed Batteries formed of disks on a hollow central stern, the disk constructed of thread wrapped wire wound spirally until a suitable diameter is attained, and an aperture left at the centre to engage, the central stem.

No. 6182. Improvements in Tube Wells.

(Perfectionnements dans les puits fores)

David H. Zavitz and Edward Milner (Assignees of William Milner), Strath-roy, Ont., 1st June, 1876 (Extension of Patent No. 1044), for 5 years.

Claim.—The tube-well having wire screen pockets a, b,c,d,b,c, d,f,c,g,f,b these pockets extending into the centre or hollow of the tube and having these pockets extending into the centre or honow of the time and maying clear and imobstructed but narrow and oblong orifices or opening into these pockets at the circumference of the tile, these orifices or openings being mn. no, op, into which sand or other suitable material may be inserted to allow the water to filter through, also in the application or insertion of coargain also a suitable material into these neckets to filter the water. se and or any other suitable material into these pockets to filter the water passing through the pockets being adapted to retain the sand.

No. 6183. Improvements in Wood Planing Machines.

(Perfectionnements aux machines à raboter l. bors.)

Charles H. Warren, Toronto, Ont., 12th June, 1876, for 5 years

Chain.—Ist. The horizontal knives C, C, finished with a regularly scratted cutting edge forming angular or curved cutting teeth. 2nd The saws F or their equivalent mounted upon the shaft E, either in front or in rear of the knives C, C, or attached to the horizontal head B, in combination with the heads D, D, provided with knives having a concave cutting edge, 3rd The combination of the horizontal head B, having knives C, provided with a