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Vol. IV .-- No. 10.

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No. 6466. Improvements in Covers for Pots and Kettles.

(Perfectionnements aux convercies de marmites et de bouillaires,) George Clements, New Milford, Pa., U.S., 24th August, 1876, for 5 years

Claim.—1st. The combination with the pot lid B, of the non-conductive bail supporting knob h perforations cand lip or shield C—2nd. The adjust able hinged clasp d with pinching screw e in combination with the lip or shield C.

No. 6467. Improvements in Whiffletrees.

(Perfectionnements and palonaices,)

Stephen White, Belleville, Ont., 24th August, 1876, for 5 years Claim.—The combination of the whiftletroes C and D with the bar E, bolt holes F, garths II, slots I and pins J.

No. 6468. Improvements on Winnowing Machines. (Perfectionnements aux tarares,)

Calixte Ethier, St. Eustache, Onc., 24th August, 1876 (extension of putent No. 1114), for 5 years.

Résuné.—la L'arrangement et la construction de la roue dentée C et sa combinaison avec la poulie E; 20. L'arrangement de la poulie H et sa combinaison avec le méranisse du sax et de l'éventail, et avec un pouvoir moteur quelconque indépendant et. 3e l'arrangement des tiges enfer l'1 leur forme particulière et leur emploi comme attachés au lien du tambour

Claim .- 1st. The arrangement and construction of toothed wheel C and its combination with block E. 2nd. The arrangement of block H and its com-bination with the mechanism of the seive and fan and with an independent motive power of any description. 3rd. The arrangement of the iron rods H. their particular shape and their use as attached to the cliff of the drum and as handles.

No. 6469. Improvements in Tool Handle Sockets.

(Perfectionnements lans les douilles des manches d'outils.)

Edward C. Jones and William Chaplin, (Assignces of William II. Rodden). Toronto, Ont., 24th August, 1876 (extension of patent No. 616), for 5

Claim .- An improved wrought metalise capped terrule or socket drawn in or compressed at the end to form a solid cape and made of one piece), and to be used with or without a strap or straps finished in every case with a suitable opening for the shank of the tool or implement to the handle of which it is to be suitable or which it is to be suitab it is to be applied, also the gad and the combination of the capped ferrule and the pad with or without straps.

No. 6470. Process of Tanning and Dyeing Skins. (Procédé de tannage et de teinture des peaux.)

John Smith and Clara Smith, Westville, N. S., 24th August, 1876, for 5 A.Cats

Claim .- 1st. The process of tanning hides and skins without removing the s hair or wool by the use of water, wheat bran soap, borax and sulphuric acid in which to soak the hide or skin and by the use of the tanning liquors. Joseph Shickel Bridgewater Va. U.S., 24th August, 1876, for 5 years. composed of water, wheat bran, salt, sulphuric acid and melted terra t Japonica; 2nd. The process of removing the hair or wool from hides and skirs during the tanning process by the use of water, slaked lime and wood i

ashes; 3rd. The process of freeing hides and skins from hime by the use of liquor composed of cold soft water, wheat brun and suphuric acid; 4th. The process of softening and tightening leather by the use of borax, saleratus and soap and by the use of ghr is leather liquid composed of soap, tanners oil (or neats foot oil) and alcohol, 5th. The process of finishing heavy hides for boot leather, &c. by the use of water proof stuffing composed of wheat flour paste, bees wax, pine pitch and barbary gum, beef tailow, tanners all (or neats foot oil) and boiled linseed oil; 6th. The process of solid-line heat and harmes leather by the use of computancement. passed of wheat flour paste, bees wax, pine pitch and barbary gum, beef tallow, tanners all (or neats foot oil) and boiled linseed oil; 6th. The process of pollshing boot and barness leather by the use of gum tragacanth, water and lampblack; 7th. The process of blackening the grain side of hides by the use of terra Japonica, extract of logwood copperas and zeig 5th. The process of blackening the grain side of hides by the use of terra Japonica, extract of logwood copperas and zeig 5th. The process of blackening the grain side of hides by the use of soap, lampblack and pulverized copperas, 9th. The compound in which to soak hides and skins composed of water wheat hear soap borax and sulphuric zeld. 19th. The compound for removing the hair or wood from bides and skins composed of water sheat harn soap borax and sulphuric neid; 12th. The tanning compounds composed of water, wheat bran and sulphuric neid; 12th. The tanning compounds composed of water, wheat bran and sulphuric neid; 12th. The tanning compounds composed of water, wheat bran and sulphuric neid; 12th The tanning composed of borax saleratus and soap; 14th. The compound called Glare Leather liq, id composed of soap, tanners oil (or neats foot oil) and alcohol. 15th. The compound called water proof studing composed of wheat flour paste, bees wax, pine pitch and barbary gum, beef tallow, tanners oil to neats foot oil) and belied linseed oil; 16th. The compound for polishing boot and harness leather composed of gum tragacanth and lampblack stirred into the foregoing water proof studings. 15th. The compound for blackening the gram side of hide composed of left composed of left composed of lides composed of soap; ampliace and pulverized copperas. 19th. The compounds for coloring furs composed of silver.

No. 64.7.1. Minchime for Seprecular and ammonia and nitrate of silver.

No. 6471. Machine for Screening Coal Ashes.

(Machine à sasser les cendres de charbon de terre.)

Joseph Chalifour, Montreal, Que., 24th August, 1876, for 5 years.

Hématé—la La porte à chattière A A du tambour sasseur les barreaux sasseurs Ae qui la composent ils sont longitudinaux et rouds, les barreaux di mâles de la glisière ainsi que la poignée y; 20. Le système de tambour sasseur ll B·à plateaux B et à barreaux B-également rouds et longitudinaux aunsi que les barreaux b femelles des glissoures deutrée et la barrette d'arrète 30. De poursoir au besoin construire la porte A A et le tambour B B-en bois on en mêtal. 40. Le trou ad hos q-pratiqué dans le couvercle Deput le passage de la porte e chatuère, sa planchette de reconvenent F avec son fermoir k-a k et charmière n, ainsi que le fermoir f-fodu couvercle metie; 50. Les distributeurs N; fos. Le tipoir au charbon sassék k-oqui s'enlève pendant l'opération du assage su contre-planchette E de farmeture, charmière V et fermour ho k-y compris; 70. Le fond de la boite à sas M Mequi se démonte, et ses tasseaux a alusi que les poignées. T'et Y; se. De pouvoir employer la force motrice pour faite mouvoir le susseur en adaptant sur l'arbi Résmaé - la La porte à chattière A A du tambour sasseur les barreaux ployer la force motrice pour faire mouvoir le susseur en adaptant sur l'arbre I une poulie folle et une poulie fixe.

lst. The cut hole door A As of the screen drum, composed of the screening bars As, which are longitudinal and round, the male guide bars d and the handle y 2nd. The system of screen drum B B, with platform B and bars It also round and longitudinal and the ferrute bars bof the entrance guides and the small top bar z = 3rd. The making the door A As and the drum B Be of wood or metal at will. 4th. The hole adher q cut in the cover De for the passage of the overlapping out hole door F with its bolt Ke K and bluges it as well as the bolt f fo of the cover itself, 5th. The distributors N; 6th. The receptacle for the screened coals K Ke, which is carried off during the operation of screening its fastening counter board E lunges V and boil he h included. 7th The screen box bottom M Mr which may be taken apart, and its ledges, as well as the handles T and V. 8th. The employment of molive power to move the screen by adapting on the arbour I a loose pulley and a fixed pulley.

No. 6472. Improvements on Ploughs.

(Perfectionnements aux charries,)

Claim.—The combination with a clamping bolt of a plough point having countersinks on both sides, and the mould board having corresponding projections to fit said countersinks.

No. 6473. Improvements in Lifting Jacks.

(Perfectionnements aux crics.)

Lewis O'Hara and Henry Qooper, Oswego, N. Y., U. S., 24th August, 1876 for 5 years.

Claim.—The combination of the hollow standard S with its male screw b, the rod R, the lover L with its bifurcated short arm a_i , the connecting rods C C and the screw slide S

No. 6474. Improvements in the Mariners' Compass.

(Perfectionnements dans le compas de marine)

Silas Bent, St. Louis, Mo., U. S., 24th August, 1876, for 5 years.

Claim.—1st. The combination of the magnetic needle A provided with the pointer N, the card B and the nut C: 2nd. The combination of the magnetic needle A provided with the north and south pointers N and S, the card B and the nut C. 3rd The combination of a suitable securing device with a card and needle, the card and needle being relatively adjustable as specified.

No. 6475. Gas Apparatus. (Apparal à gaz.)

Thadeus S. C. Lowe, Mortistown, Ph., U. S., 24th August, 1876, for 5 years. Claim.—1st. Dropping or otherwise admitting in limited quantities continuously or intermittently hydro carbon oils or other carbonaceous substances, liquid or solid, upon the top of a thick mass of coul or other carbonaceous substances in a state of incandescence in a close chamber previously heated by direct internal combustion, with or without the introduction of steam, and then for the purpose of superheating and fixing the gases of said chamber passing then tran said chamber into and through a second chamber which also has been previously heated by direct internal combustion; 2nd. Superheating steam by passing it through a chamber previously heated by direct internal combustion then causing said steam to pass through a mass of coal or other carbonaceous substances, in a state of incardescence, in a close generating chamber to decompose the steam, and afterward for the purpose of still further heating the cases of said generating chamber, and thereby producing a more fixed gas passing the gases from said generating chamber into and through another superheating chamber which has been previously heated by direct internal combustion; 3rd. In utilizing the heat contained in the gases evolved in generator a the process which consists in passing said gress directly through the boiler r or through the resuperheater, and thence through said boiler r for the generation of steam, the superheater, and thence through said boiler r for the generation of steam, the superheater, and thence through said toiler r, the latter of the superheater, and thence through said toiler r for the generation of steam, the superheater, and thence through said toiler r for the generation of forcing air through purton of a boiler constructed with unjugit tubes and causing such gases to jass down through said tubes and out at the bottom of the boiler; 5th. The wash box U constructed with an inclined diaphragm in combination with the entrance and exit pipes for gas: 6 Thadeus S. C. Lowe, Morristown, Pa., U. S., 24th August, 1876, for 5 years. superheater d, heat restorer i, clevated oil tank m, the upright tubular boiler r, with their several connecting pipes and other appurtenant parts constituting aparatus for rapidly evolving illuminating gas and fixing the same in its gaseous condition; Eth. The combination of the generator a, superheater d, heat restorer i, clevated tank m, uprillit tubular boiler r, wash bux U, sreubber y, with their several counceting pipes and other appurtenant parts for rapidly evolving illuminating and heating gas, fixing the same in its gaseous condition and purifying the same preparatory to storage or immediate use.

No. 6476. Improvements on Organs, &c.

(Perfectionnements aux orgues, &c.)

Raphael E. Letton, Quincy, Ill., U. S., 24th August, 1876, for 5 years.

Raphael E. Letton, Quincy, Ill., U. S., 24th August, 1876, for S years.

Claim.—1st. A means of sounding a reed, the hands being free to play any other note or notes while the reed is still speaking; 2nd. A knee pedal or swell for prolonging or silencing a note; 3rd. An organ or other malogoous instrument in which one note may be sounded as desired, while the hands are free to play any other note or notes; 4th. An action frame having an elastic pressure; 5th. An action frame having an elastic pressure is combination with a means of operating a pitman of the organ, 6th. An action frame which being depressed permits and being released determines the operation of the sound producing element of an organ; 8th. A jack pivoted to an elastic action frame, 8th. The pedal R and arm crank T in combination with the action frame II and spring L. 9th The coupler E in combination with the jack F; 16th. The combination of the lever s and jack F.

No. 6477. Improvements on Locks.

(Perfectionnements aux serrures.)

George A. Shaw (Assignee of Robert W. Semple), Toronto, Ont., 24th August, 1876, for 5 years.

August, 1876, for 5 years.

Claim.—1st. The latch D placed within the car B and operated by the handle II, in combination with the catch O placed on the inside of the door A 2nd. The quadrant plate E keyed or otherwise fastened to the latch stud C and having a slot c in combination with the latch pin F, 3rd. The pivoted latch handle G in combination with and secured to the eye H by means of the seal B or its equivalent, 4th. The pivoted latch D, provided with a tail piecer I fitting in or resting upon the locking both Q, in combination with the discs R or their equivalent; 5th. A detachable index knob M in combination with the stud L for operating a combination lock.

No. 6478. Glove Fastener. (Agrafe de gant.)

William F. Foster, Chicago, Ill., U. S., 27th August, 1876, for 5 years.

-The glove with the wrist opening provided with studs on each side of the frame, and a lacing card or cords secured by one end to one of the stude and having a ring or ball on the other end, whereby said opening may be laced without the use of eyelets.

No. 6479. Gas Motor Engine.

(Machine à moteur à gaz.)

Nicolaus A. Otto, Doutz, Germ., 24th August, 1876, for 5 years.

Nicolaus A. Otto, Doutz, Germ., 24th August, 1876, for 5 years.

Claim.—1st. A gas motor engine wherein a combustible gas is mixture is admitted to the cylinder separate from a charge of air or incombustible gas it atmospherio or higher pressure and in such manner that the comous tible gas is more diluted the farther it is from the point of ignition, whereby the development of heat and the expansion or increase of pressure produced by the combustion are rendered gradual. 2nd. A gas motor engine wherein by one instroke of the pixton a charge of combustible and incombustible gas drawn into the cylinder by its previous outstroke is compressed so that the compressed charge when ignited propolistic pixton during the next outstroke and the products of combustion are expelled by the next instroke of the pixton; 3rd. In a gas motor engine the method of regulating the admission of the combustible gas to the cylinder by means of a slide P worked by a governor Q so that when the speed of the engine increases the combustible charge is reduced. 4th In gas motor engines the method of working the admission and emission slide valves D P and S of the cylinder A from a shaft K revolving at half the speed of the crank shaft I so that the pixton has to make two stokes for each stoke of the said valves; 5th. The construction of the slide D and slide cover L, with ports and pavages so arranged as to establish communication consecutively between the port C and the outer shaft K, condition of the cylinder A, pixton B, engine shaft I, counter shaft K, canb ke, slide D, gas slide P, can R, escape valve F, lover F1 and can F3

NO. 6480. Improve meants in Bark Checks.

No. 6480. Improvements in Bank Checks,

&c. (Perfectionnements aux mandats de banques, &c.)

William A. Smith, Chiton, Ont., 24th August, 1876, for 5 years.

William A. Smith, Chiton, Ont., 24th August, 1876, for 5 years.

Claim.—1st. The employment of a check, draft, &c., upon which a scale or table is printed from which a character or characters, written with an intistible fluid, will appear upon the application of an element that shall be understood by the maker of such check, draft, &c., and the banker to whom it is addressed; 2nd. The employment of a check, draft, &c., upon which is printed, asimped or written a character or characters that will indicate a point where the amount intended to be represented of such paper, written with invisible fluid, will appear by the application of an element that shall be understood by the maker of such check, draft, &c., and the banker to whom it is addressed; 3nd. The employment of a check, draft, &c., upon which is printed; a scale from which a character or characters may be chosen or indicated by a card held by a banker that will indicate a point upon such check draft, &c., when the an annt written with invisible fluid and a character or characters will appear by the application of an element that shall be acter or characters will appear by the application of an element that that but check draft, &c., when the an aint written with invisible fluid and a character or characters will appear by the application of an element that shall be understood by the maker of such check, draft, &c., and the banker to whom it is addressed, 4th. The employment of a card upon which is printed a scale by which a number, letter or character on a check, draft, &c., may be in dicated (of which the card is an associate detective) that indicates a point where a number, letter or character will appear on the check, draft, &c. and the banker to whom it is addressed, by the application of an element that shall be understood by the maker of such check, draft, &c., and the banker to whom it is addressed, 5th The combination or association of a check, draft, bonds, notes, bills of exchange and other negotiable paper and a scale that shall assist or enable a banker to detect from by the employment of a character or characters written, stamped or printed with a fluid that shall remain invisible until subjected to an element that will make is appear; 6th. The employment of a fluid for printing, stamping or writing characters on negotiable paper that remain invisible until subjected to an element that will make such printing, stamping or writing visible and remain so.

No. 6481. Improvement in Fork Tines.

(Perfectionnement des fourchons de fourches.)

Edward C. Jones and William Chaplin (Assignees of William H. Rodden) Loronto, Ont., 5th February, 1876 (extension of Patent No. 795), for 5 vears.

Claim.—Making the tines or prongs of hay, straw, barley or manure forks full or rounded on the upper or lifting side and tapering them off to an oval or cel tail-shaped edge on the other or under sides, also in the combination of the full or rounded upper side with the oval or cel tail-shaped under side in the times of hay or other fork.

No. 6482. Fog Alarm. (Alarme en cas de brume) Lewis Smith and Robert Booth, Sherbrooke, Que., 30th August, 1876 for 5

years. Claim.-Claim.—1st. A compound fog alarm consisting of a boiler E, steam er linder S with its piston A, so constructed that the piston C being raised by the pressure of steam shall cause the piston A to rise until the pressure is removed when the descent of the pisten A forces the air contained in the cylinder T through a horn or whistle and at the same time draws air through nonther horn or whistle to fill up the vacuum formed by the descent of the piston; 2nd. In combination with the compound fog alarm described in the above claim a controlling mechanism whereby a valve in connection with the boiler is opened on the completion of the upward strake of the piston. C and A and closed on the completion or partially and momentarily closed a intervals variable at will during the downward stroke of said pistons, where by the time occupied by the formation of the steam used for raising the pistons causes the intervals between the blasts or signals and the raising the scape of steam when formed causes corresponding momentary intervals -lst. A compound fog alarm consisting of a boiler E, steam cr escape of steam when formed causes corresponding momentary interrup-tions of the said signals; 3rd. In combination with the air passage N of the air cylinder T a vacuum or reversed reed.

No. 6483. Improvements on Rotary Pressure Blower.

(Perfectionnements aux soufflets rotatoires à pression)

Thomas S. Disston, Philadelphia, Pa., U. S., 30th August, 1876, for 5 years Claim.—1st. A rotary blower in which are combined the following elements namely: a cylinder H with two vanes I I? a cylinder G with two coa

recesses fft and two segments e et, a chest within which the two cylinders are caused to revolve in contrary directions at the same speed and suitable inlets and outlets in the said chest; 2nd. The chest and its varied suitable inlets and outlets in the said chest; 2nd. The chest and its varied cylinder II arranged concentrically in respect to the arched top of the said chest in combination with the recessed cylinder arranged nearer to the outlet than to the inlet side of the chest; 3rd. The combination of the chest and its two cylinders with an outlet opening h the upper edge of which is below a horizontal line X drawn through the centre of the vane cylinder; 4th. The combination of the recessed cylinder G and its two segments with the adjustable plates m and n on the casing of the chest · 5th. The combination of the hollow vanes I II and their openings q with the recesses f for the cylinder G, and the openings p in the end of the chest.

No. 6484. Improvements in the Manufacture of Tubs, &c.

(Perfectionnements dans la fabrication des curettes, &c.)

Mark V. Dodsworth, Partsborough, N. S., 30th August, 1876, for 5 years.

Claim-A tub pail or other similar vessel made with but one stave and one lateral joint, such staves being cut from the inside of those next larger.

No. 6485. Paint Brush Handle.

(Manche de pinecau.)

George W. Schermerhorn, East Limington, Me., U. S., 30th August, 1876, for 5 years.

Claim + 1a combination with an ordinary point brush having the tapering stock or handle b the perforated removable handle a.

No. 6486. Method of Fastening Clothes Lines.

(Manière d'assujetir les lignes d'étendage.)

Jesso L. Cain, Newcastle, Ont., 30th August, 1876, for 5 years. Claim .- The clutch A in combination with the plate B.

No. 6487. Improvements on Tire Tighteners.

(Perfectionnements aux serre-bandages de roues.)

Henry A. R. Horton and Amos P. Hayes, McKinney, Texas, U. S., 30th August, 1876, for 5 years.

Claim.—The combination with the right and left screw D of a tire having tongue J and notch I the nuts C rigidly attached to the ends of the tire, and the fellies having wedge-shaped ends provided with metallio thimbles which fit into corresponding recesses in the nuts.

No. 6488. Fog Alarm. (Alarme en cas de brume.)

George Sweanor Sherbrooke, and Horace R. Sewell, Quebec, Que., 30th

August, 1876, for 5 years.

Claim — The combination of the cylinder A. piston B with chamber F, reed I horn E. projection C. valve L, pipe G, stop cock M, chamber D, lamp N, tank H and stops T T.

No. 6489. Meat Hook. (Crocket de boucher.)

Lewington R. Howse (Assignee of Benjamin F. Clark). Philadelphia, Pa., U.S., 31st August, 1876, for 5 years.

Claim.—1st. The hook D, springing from a base E and adapted to fit and be held in bracket A; 2nd. The combination of bracket A having slot B and groove C, book D, springing from base E and retaining pin F fastened

No. 6490. Riving and Racking Machine.

(Machine à refendre et encocher.)

Stillman Parker Altona Pa., U S., 4th September, 1876, for 15 years.

Claim.—1st. T. e combination of the riving rolls and the adjustable bed or bar, 2nd In a machine for riving and racking hoop billets the combination of two riving rolls and a bed or bar, one of the riving rolls being adjustable; 3rd The combination of the heard knives with the riving and racking rolls; 4th The combination of the equalizing knife with the riving and racking rolls 5th. In combination with the bed or bar C of a riving machine, the movable incline is or adjusting the same, 6th. In combination with the roll Ki of a riving and racking machine, the adjustable bearing and the movable incline a, 7th. In a riving and racking machine the combination of the adjustable bed h, the incline i, the roll Ki with its adjustable bearing and incline n and the adjustable bed block o.

No. 6491. Improvements on Stoves.

(Perfectionnements aux poèles.)

Charles Dion. Chambly Basin and James Baylis, Montreal, Que., 4th Sep. tember, 1876, for 5 years.

Claim—lst. In combination with the upper part of any stove a spiral coil arranged around such upper part. Inving its lower end in the fire chamber and carrying off the products of combission. 2nd. In combination with the shoot B and coil C one or more supplementary coils of pipe having their lower ends terminating below the fire grate, and their upper passing through the transfer the store. the top of the stove.

No. 6492. Improvements on Fruit Augers.

'Perfectionnements aux éléculeurs à fruits.)

William McCormek, Blair, Neb., U. S., 4th September, 1876, for 5 years.

Claim.—'The fruit auger having its prings C nearly straight for about half their length and then twisted or curved sidewise about one-half turn.

No. 6493. Improvements on Overshoes.

(Perfectionnements aux souliers pardessus.)

John H. McMcchan, London, Ont., 4th September, 1876, for 5 years.

Claim.—An overshoe consisting of the knitted or woven upper A and vulcanized rubber foxing " and sale B welded together.

No. 6494. Car-coupling. (Attelage de wagon.)

Joseph A Richard, Columbiaville, Mich U S., 4th September, 1876, for 5 veurs.

Claim.-1st. The spring D and chain C, provided with the toggle e in ombination with the latch B pivoted in the slot b of the draw head A , 2nd. The lug g on the face of the latch B.

No. 6495. Washing Machine. (Machine a laver.) Thomas M. Wilson, Venice, Pa., U. S., 4th September, 1876, for 10 years.

Claim.—1st. The combination of the binged upright L, the pivoted cross head M the sliding bars N and the growed standards O with the inovable rubber I J K and the suds box A B C; 2nd. The combination of the shaft Q, the cords P R, the crank T and the ratchet wheel and pawl U V with the standards O, the sliding bars N and the movable rubber I J K.

No. 6496. Process of Hardening Glass.

(Procédé pour tremper le verre.)

John N. Tarbox, Hamilton, Ont., 4th September, 1876, for 5 years.

Claim.—Ist The art or process of tempering and hardening glass by dipping it when at or about a low red heat into inclted bees wax; 2nd. The art or process of tempering and hardening glass by dipping it when at a low red heat into melted bee, wax into which a quantity, say about four times its quantity of beef rathow or its kindred substance, has been mixed. 3rd. The art or process of tempering and hardening glass by dipping it when at a low red heat into a preparation of bees wax tallow and sait soda or other kindred saline substances.

No. 6497. Steam, Water and Gas Pipe Connection.

(Raccordement des tuyaux de vapeur, d'out et de gaz.) Calch C. Walworth, Boston, Mass., U S., 4th September, 1876, for 5 years.

Claim—1st In a steam heating radiator the return bend. (formed with the chambers c), the pipes B and expander D: 2nd. The improved method of connecting steam, gas ar water pipes, the same consisting in making one or both of the connecting surfaces growted or threaded, and swaging or driving together the parts thus formed to upset the growed or threaded portion of portions.

No. 6498. Self-lighting Gas Burner.

(Re- à art à allumage automatique.)

Bennett Palmer, St. John ... B., 4th September, 1876, for 5 years.

Claim.—The arrangement of A and B, the valve C and D and the mode of working and of construction. the arrangement and construction of the small tube or stem and burner H to I with the main tube or stem and burner G and L and with each of their respective combinations, fittings and connections therein.

No. 6499. Beam and Knee for Carriages.

(Sommier-courbe de voiture.)

Janus B. Lazier, Port Perry, Ont., 4th September, 1876, for 5 years.

Claim .- The combination of the beam and knees on one piece of timber.

No. 6500. Improvements on Cultivators.

(Perfectionnements aux cultivateurs.)

Robert W. Magee, Woodstock, Ont., 4th September, 1876, for 5 years.

Claim.-1st. The combination of pole B and the centre bar N 2nd The combination of frame C and the hinges D, 3rd. The combination of levers H I and K and hook O.

Washing Machine. (Machine a laver.) No. 6501. Moritz Schmidt, Hanover, Ont., 4th September, 1876, for 5 years

Claim.—181 The combination, in a washing muchine constructed with internal corrugations and bottom of a close fitting cover B and a vertical operating shaft D provided with a head E from which projects downwardly pins P for manipulating the clothes, 2nd. The attachment to the washing tub A of a boiler G heated by a lamp H, and having a connecting pipe I for supolation run. plying steam.

No. 6502. Improvements in Washing Ma-

chines. (Perfectionnements aux machines à laver.)

Ferdinand Vezina Vercheres, Que., 4th September, 1876, (extension of Patent No. 1125) for 5 years.

Rétuné.— La construction d'une blanchisseuse mécanique étanche, au moyen de la combinaison du fond extérieur en zinc D. des liens ou cercles en fer B B maintenus et ressertés par les écrous C C et de la barre E Claim — The construction of a wateringht automatic washer by means of the combination of a zinc exterior bottom D iron binders or hoops B B held and tightened by screws C C, and of the bar E.

No. 6503. Improvements in Hollow Augers.

(Perfectionnements aux tarrières-cuillers.)

Albert A. Wood, Manlius, N. Y., U. S., 6th September, 1876, for 5 years.

Claim.—1st. The combination of a hollow anger with the cutting knife b and strap S provided with the slot I. 2nd The cutter carrying law P and gaging law E. provided with graduated scales and holding devices, in combination with the body A and shank B. 3rd The adjustable stop G constructed in two pieces clamped to each other and the body A by the screw p.

No. 6504. Improvements on Anchors.

(Perfectionnements aux ancres.)

Joseph Williams, Jarrettown, Pa., U. S. (Assignee of Joseph S. Williams), 6th September, 1876, for 5 years

Claim -1s. Limiting the motions of swivelled or prooted flakes by means of a rigid connection or connections secured to the flukes and adapted to beer against the shank of the anchor, 2nd. The flukes B is swiveled or pivoted to the shank of the anchor and having a transverse rigid connection E.

Fence Post. (Pieu de elôture.) No. 6505.

Edward J. Major (Assigner of Franc O. Wood), Montreal, Que., 6th September, 1876, for 5 years.

Claim.—A fence post of sheet, wrought or east metal, the section of which is a line having a single double, triple or multiple curve or bent to one or more angles and having its ends apart

Stench Trap. (Paisard.) No. 6506.

John M. Reid, New-York, U. S., 6th September, 1876, for 5 years.

John M. Reid, New-York, U. S., 6th September, 1876, for 5 years.

Claim—1st. The trap shown east in lead or other analogous easily inside metal with a single partition wall between the pipes A and C forming the inverted dam and being common to both pipes, 2nd. The trap cast in lead or other easily fasible hetal in which the intermediate pipe C is made straight from its upper open end to the half circle bend at the bottom that communicate with the pipe A and communicating with the discharge pipe B by a quarter-circle bend near its apper end. 3nd. A stench trap in which the discharge pipe B is so placed, in relation to the inlet pipes A and intermediate pipe C that a vertical plane projected through the centre of B to the centre of C will form an angle with the plane that passes through the centre of A and C; 4th. The core c and d in combination with the blocks f and g introduced at the bend of the pipes; 5th. The combination of the blocks f and f provided with the dovetailed grooves j, and the key i, 6th. The swinging loop o and key or pin n in combination with the cores d and c.

No. 6507. Twine Waxing Compound

(Composé pour cirer la ficelle.)

Raymond Blakiston and William C. Blakiston, Quebec, Que., 6th September, 1876, for 5 years.

Claim .- A compound consisting of bees wax, rosin and palm oil.

No. 6508. Improvements on Autographic Printing.

(Perfectionnements dans l'impression autographique.) Thomas A. Edison, Menlo Park, N. J., U. S., 6th September, 1876, for 5 venrs.

years.

Claim.—1st. The tube a with a tapering end, in combination with a puncturing needle and mechanism for recurrecating the same; 2nd. The portable perforating instrument for writing or drawing composed of a tube or stock with a small end similar to a pen and perforating needle and means for reciprocating such acceller rapidly. 3rd. The method of prinning in jernament semi-fluid ink by punctiving a sheet of paper or similar material with numerous small holes, filling such holes with a semi-fluid ink and pressing the same upon the surface to be printed; 4th. The swinging frame a and paper holding clamps 13 in combination with the bed t for receiving and holding the sheet of perforated paper and the sheet to be printed; 5th. The combination with the revolving magnetic motor pen holder a and puncturing, needle c of the same d. having three or more points: 6th. The combination with the portable hand perforating instrument having an electro-magnetic motor of a flexible conductor and a battery; 7th. The portable galvanic battery composed of cells in a stand with a pole supporting rod latch and cross-head, in combination with flexible conductors, a magnetic motor and a perforating pon, 8th. The isk forautographic-printing compised of printers ink thinned out with the state of it. 9th. The port tube a provided with the handle at in combination with the perforating needle and electro or other motor for actuating the same, 10th. The perfect of under the short tube by and connected to the rod C by the lever a in combination with the tube and connected to the rod C by the lever a in combination with the tube and machine made of the needle. 11th. The letter or characters for a type writing machine made of needle points for puncturing paper or other material for printing

Fare Register. Xo. 6509.

(Régistre de billets de passage.)

George Beadle, Syracuse, N. Y., U. S., 6th September, 1876, for 5 years.

Claim.—1st. The ratchet registering wheels C D E and F made with the flanges c c and c, with gaps or openings c c; and c, therein, and with the spring devices v for preventing their movement backward; 2nd. The acthe spring devices v for preventing their movement backward; 2nd. The actuating mechanism composed of lever H having pawls k m n and o, located thereon and operated thereby, connections s and s, sorder s and spring t; 3rd. The combination of the ratchet registering wheels C D E and F, flanges c c and c, gaps or openings c s and c with the lever H, the pawls k m n and o, connections s and s; serew s and spring t; 4th. The combination of the bell L with the striking mechanism composed of the yoke located over lever H, shoulder x, cam zon the end of lever H with its bell hammer p and springs y and b; 5th. The combination of the registering wheels C D E and F, flanges cc and cz, gaps or openings cs and cz and the springs for preventing any movement of the wheels backward with the bottom B, rims a a1 a2 and hub f.

No. 6510. Broad-cast Sower Attachment to Seed Drills.

(Ajustage de semoir à la volce aux tracrurs.)

Watcham S. Wisner, Brantford, Ont. 6th September, 1876, for 5 years.

Claim.—1st. The dovetail sockets G fastened on axie, the dovetail I on metal tubes II, the branch tube K on tube II to receive the grain from distributors on seed box, 2nd The bar M which carries bars N and cultivator teeth O, bar M being fastened to drill frame by bolts so us to be easily detached.

No. 6511. Process and Apparatus for Tan-

ning. (Procédé et appareil de tunnage.)

Philippe J. Dussand and Joseph Duchez, Bordeaux, Fee., 6th September, 1876, for 15 years.

Claim.— An apparatus employed in tanning under pressure composed of a closed vat or cylinder having arranged with a false bottom to receive the hides. Ac., together with perforated pipes and provided with infer outlet, pressure and air pipes.

No. 6512. Grindstone Frame.

(Bâti de meule à aiguiser.)

George A. Whitney, LaGrange, Ohio, U.S., 6th September, 1876 for 5

Claim -The arches A A bent from one piece of wood united with the cross bars B B, boit C and rails D D.

No. 6513. Ear Muffler. (Oreillères.)

Hermin G. Crevebing (Assignee of Butler Edgar), Espy, Pa., U. S., 6th September, 1876, for 5 years.

Claim.-The car muffer A having the frames CC and tube B combined

No. 6514. Invalid Bedstead. (Conchette de malade.)

Walter Spanner, Toronto, Ont., 7th September, 1876, for 5 years

Claim.—1st. An invalid bedstead A constructed with an adjustable movable extension boister board B: and borrom U, the combination there with of the fold over table D with book rest $d_{\mathcal{F}}$, 2nd. An available bedstead Constructed with an adjustable movable extension bolster board B: and botrom U, the combination therewith of the lunged racks K K back guids K; sliding catch K? Axile K; arms K4, links $b \circ b \circ b \circ b$, axile L, pinions L1 by wheel f, endless screw c, bevel wheels $g \circ h$ and axis $b \circ a$ with handle M; 3rd An invalid bedstead A constructed with an adjustably movable extension bolster board B; bottom G and pan Γ with holder x_i , the combination there with of the mattress E with aperture E_{IB} , plad E^* and slide ways $b \circ a$.

No. 6515. Preserving Animal and Vegetable Matters.

(Conservation des substances animales et régétales.)

Frederick S. Barff, Kilburn, Eng., 7th September, 1876, for 5 years.

Claim.—1st. The employment for effecting the preservation of animal and of vegetable matters of the lower oxides of manganese, such oxide or oxides being capable of absorbing oxygen and becoming converted into higher oxides; 2nd. The employment for effecting the preservation of animal and of vegetable substances of the lower oxides of manganese and of iron in confunction with a diluent; 3rd. The employment for effecting the preservation of animal or of vegetable matters of organic salts or compounds which are capable of absorbing oxygen such for example as the tannats, gallates, pyrogallates, or analogous bodies, either employed alone or when contained in vegetable or other matter.

No. 6516. Four Wheeled Vehicle.

(Voiture à quatre roues.)

William Buckeridge, Port Huron, Mich., U. S., 7th September, 1870 for 7

Claim.—1st. The friction rollers P journalled on the rear axle I, and supporting the waggon box M. 2nd. The bars I fixed to the under side of the waggon box and vertical rollers K journalled to the rear axle by brackets corribs e, for retaining the waggon box from lateral motion; 3rd The reach formed of two parts A B jointed contiguous to the front hounds and rigally connected to the front and rear axles respectively, the waggon body M pivoted to the front axle supported at its rear end by Inchon rollers F 4th The waggon body M, constructed with bent sills and bottom at d, 5th The square crotch king bolt o and guides N.

No. 6517. Water Tube Steam Boiler.

(Chaudière à vapeur tubulaire.)

William R. Parks and Robert L. Goddard, Palmer, Mass., U. S., 7th September, 1876, for 5 years.

No. 6518. Improvements on Steam Genera-

tors. (Perfectionnements aux générateurs de vapeur.)

Joseph Firmenich, George Firmenich and Frank Firmenich, Buffalo, N. Y., U. S., 7th September, 1876, for 5 years.

Claim.—1st. The combination with a series of mud drums A of a series of steam and water drums D connected by the heating tubes C and the fire grate or full surface S arranged between the mud drums; 2nd. The circulating tubes connecting the steam and water drums with the mud drums outside of the combination chamber; 3nd. The combination of the front commingling chamber or its equivalent and rear chamber, 4th. The combination with the mud drums A having the flue sheet B of the series of heating tubes C. steam and water drums D with the connections E steam drum F, and the setting of the steam generator consisting of the front and rear walls L and partition M.

No. 6519. Corn-sheller. (Egrenoir à blé-d'inde.)

Calvin D. Read, Ellis D. Read and James A. Read, Ayer, Mass., U. S., 7th September, 1876, for 5 years.

Claim.—1st. The frame A formed with a hollow projecting hearing ϵ for the driving wheel stops zz for the arms VV pivot study for the springs zz and ring projection V having an internal tedge ϵ as bearing for the ring are curving wheel stops z for the arms c c provided with springs philon carrying the shelling devices. 2nd The loose ring plate E bearing the shelling arms G G G G pivoted thereto and mointed in a cylindrical projection of the ring gear D, 3rd. The arms G G G ip pivoted to the loose ring plate E and pressed toward each other by springs m m m m and provided with slotted ends g gg g or sectorial gear in combination with the ring gear D provided with upward projecting studs rrr r, or with interior sectorial gear. 4th. The hopper I formed with a stort apright cylinder with guido lugs jjjj cast on its outer circumference, and a circular bottom flange arminged for the support of ring J and wing plates K K K K: 5th. The slotted ends gg g g of the wing plates K K K K in combination with the solited circuits s s, 6th. The wing plates K K K K in combination with the colled springs s s, 6th. The wing plates K K K K in combination with the colled springs s s, 6th. The wing plates K K K K in combination with the colled springs s s, 6th. The wing plates K K K K in combination with the surfaces; 7th. The combination of the feed roller to mounted on one of the two swinging arms U U and geared to the driving wheel shuft through a cog wheel 3 mounted on said arm with the roller V mounted on the other arm U

Washing Machine. (Machine a larer.)

Johnson M. Grover, Winnipeg, Man., 7th September, 1876, for 5 years.

Claim.—1st The oscillating frame D constructed with a long udual corrugated concave face in combination with the corrugated roller C; 2nd. The adjustable board F having a central slot and a bolt and nut fastening C H in combination with the base board A, 3rd. The double tee clear I and single tee clear J in combination with the board A and adjustable board F.

Emery Wheel Dresser. No. 6521.

Alhabilleur de tambour à emeri.)

Joseph D. Huntington, Chicago, Ill., U. S., 7th September, 1876, for 5 years. Claim—The combination with the shank B of a series of wheels D provided with spurs d industed to consecutively engage the face of the emery wheel and loosely journalled upon one and the same shaft.

No. 6522. Process of Deodorizing and Purifying Petroleum and other Oils.

(Procédé de disinfection et d'épuration du pétrole et autres huiles.)

Daniel M. Lamb, London, Ont., 7th September, 1876, for 5 years.

Claim.—The process of deodorizing and purifying petroleum and other oils by applying theretochlorine gas in the presence of, or in conjunction with. water.

No. 6523. Improvements on Rotary Steam Boilers.

(Perfectionnements aux chaudières à vapeur rotatoires.)

Charles W. Pierce, New York, U. S., 8th September, 1870, for 5 years.

Claim.—1st. The combination with a rotary boiler of buckets or other devices whereby water is maintained in contact with the shell of the boiler and with the flues or a po tion of them during part or the whole or their passage above the water line in the rotation of the boiler; and. In arotary boiler having two sets of tubes, the extension X containing the inner set of tubes and having two sets of tubes, the extension X containing the inner set of tubes and being of less diameter than the outer set of tubes forming the annular firehamber h or an equivalent arrangement thereof as a flange g at one end of the boller, either on the end thereof or on the furnace wall together with the recess h in the wall at the other end of the boller or its equivalent, 3rd. A rotary boiler in which the feed water steam and other papes are arranged in the bollow trunnions of the boiler the said feed water pipe extended downward from the hollow trunnion to or below the water level and the steam pipe extended upward from the same into the steam space; 4th. In combination with the boiler shell D, trunnions T, flues G and G, buckets G, damper G, doors G and G, annular chamber G, and tubes G.

No. 6524. Organ Stop Action. (Jeu d'orgue.)

Henry Smith, Gananoque, Joseph George and Charles Mee, Kingston, Ont., 13th September, 1876, for 5 years.

Claim,—1st. The cam lever A pivoted in the key board at B; 2nd. The valve or mute D, 3rd. The step handle E.

No. 6525. Improvements on Combustion of Fuel and on Furnaces for Effecting the same.

(Perfectionnements dans la combustion du combustible et aux fourneaux pour cet objet.)

John E. Wotten, Rending, Pa., U. S., 13th September, 1876, for 5 years.

Claim .-- Ist. The mode of burning waste or refuse coal in steam boiler Glaim.—1st. The mode of burning wasto or refuse coal in steam boiler furnaces, that is to say by repeatedly stirring or breaking up the ignited fuel from above while it is subject from below to numerous jets of air under pressure, 2nd. The combination, in a steam boiler furnace, of a perforated fuel bed E, a closed ash jun F and a pipe or pipes through which air under pressure can be introduced into the said pan below the perforated bed, 3rd. The fire bed composed of perforated flanged plates or channel bars of wrought iron connected together, 4th. The combination of a pipe M for the admission of air for supporting combustion in a steam boiler furnace with a steam nozzle b adapted to a valve c which is controlled partly by the pressure of steam in the boiler and partly by a spring, 5th The combination of the tube G its branch i and nozzle b with the valve c, spring f and adjusting screw

h, 6th. The mode of burning fuel in and preventing the emission of sparks from locomotive boilers, that is to say by forcing, by means of a jet or jets of live steam, a continuous blast of atmospheric air into a closed ash pan and by introducing into the chinney a continuous jet or jets of live steam sufficient, in force or volume, to prevent the escape of the products of combustion through the door of the farmaco when open, but insufficient to cause the emission of sparks from the chinney, 7th The combination of the closed ash pan and air pipe with a nozzle b communicating with a steam pipe of the engine at a point between the steam chest and throttle valve, so that the introduction of air under pressure into the ash pan shall vease similian onsity with the cutting off of steam from the engine; 8th. The combination of the chinney with a pipe communicating at one end with a man steam pipe of the engine at a point between the throttle valve and steam chest and terminating at the upper end in a nozzle, nozzles or other devices for discharging a jet or jets of live steam into the said chinney when the throttle valve open, 9th. The combination with a steam boiler chinney of a series of induction pipes and a device by which a jet of steam is injected into each pipe.

No. 6526. Machines for Forming Collars on Carriage Axles.

(Machine à former les collets des essieux de voitures.)

Jacob Kritch, Cleveland, Ohio, L. S., 13th September, 1876, for 5 years.

Jacob Kritch, Cleveland, Olno, L. S., 13th September, 1876, for 5 years.

Claim—1st The adjusting centre screws C D in combination with the guide blocks a at, stay I, guide blocks a at, stay I, guide blocks a at, stay I, guide standards F, dies e et and carriage B, whereby the axle blank is held at its extreme ends upon points or centres and pressure applied thereto, thereby upsetting said blank and at the same time preventing deflection of the bar, 2nd 7 he combination of two centres in line with each other or nearly so by and through which to apply the power required to upset the bar and adjusting guides or supporting devices intermediate between said centre to prevent detlection of the bar while being upset, 3rd. The combination of two centres upon which to pivot and hold the axle blank while being upset, 4th. In adjusting guides or supporting devices arranged intermediately between the centre to prevent deflection of the bar while being upset without clasping or clamping between said guides or supports, 5th. Upsetting and forming a collar and swell on axle blanks at one operation by applying longitudinal pressure at a point distant from the heated part of the bar to be upset, &c., and retained in a right line between centres for holding the bar, and intermediate guides for directing the same while subject to said operation by mechanism. while subject to said operation by mechanism.

No. 6527. Improvements in Attachments to Envelopes.

(Perfectionnements aux dispositions des enveloppes.)

James Collins, Central City, Col., U. S., 13th September, 1876, for 5 years.

Claim.—An envelope opener made of parchment stiff paper or similar material with the one end marked and the other end fastened under the lap of au envelope.

No. 6528. Clothes Horse. (Séchon a linge.)

James A. Moody and Caroline Hill, Toronto, Ont., 13th September, 1876, for 5 years.

Claim.—The vertical parts E provided with extending arms or bars F, in combination with vertical posts G arranged in a circle around the standard G.

29. Treating Cupreous Solutions to purify the Copper and utilize separated No. 6529. substances.

(Mode de traitement des solutions curvreuses pour epurer le curvre ct utiliser les substances separees.)

Henry Chadwick, Capelton, Que., and William Jardine. Irvine, Scot., 13th September, 1876, for 5 years.

Claim—1st. The purifying of enpreous solutions containing saits of other metals besides copper by treating them with acetate or other suitable sait of lead, 2nd. The separating and inflizing of silver contained in enpreous solutions by treating them with acetate or other suitable sait of lead; 3rd. The separating of arsenic, antimony and bismuth, or any of them, from cupreous solutions by treating them with acetate or other suitable sait of lead.

No. 6530. Railroad Tie. (Traverse de railroute.)

George D Blassdell, Cambridge, Vt., U. S., 13th September, 1876, for 5 years.

Claim.—The metal tre Λ having rused and boxed ends B, chairs D, clamp plates G and the rod F.

No. 6531. Process of Restoring Crape and Laces. (Procédé pour rafraîchir le crépe et la dentelle.

Anron J. Shriver, Baltimore, Md., U. S., 13th September, 1876, for 5 years.

Claim.—The process of restoring the color and texture of crape, laces, etc., by first immersing the men in a solution consisting of alcohol, a dye stuff and a stiffening gum, and then subjecting them to the action of steam.

Machine for Cutting Curd. No. 6532.

(Machine a trancher le grumeau.)

Jacob P Bellinger, Minden, N Y, U. S., 13th September, 1876, fc 5 years.

Claim.—Within a bottomless hopper P a series of knives A radially and spirally placed upon a revolving spindle B in combination with the blades O.

No. 0533. Improvements in Cooking Stoves.

(Perfectionnements dans les fourneaux de cuisine.)

James Nortle, St. Catharines, Ont. (Assignce of Sherman S. Jewett), 13th September, 1876, for 5 years.

September, 1876, for 5 years.

Claim.—In figure I II III, 1st The arrangement with the baking oven A and rear extension \$\Delta\$ of the lower portion thereof of the flues F II G G, damper m and exit passage i in front of the extension \$Az\$; 2nd. In combination with the baking oven \$\Delta\$, provided with a lower rear extension \$\Delta\$, the combination of the outer top rear and side plates f h and g g till they intersect ends other so hs to inclose the space over the extension \$\Delta\$; 3rd. The arrangement of the warming oven II under the fire chamber and separated from the warming oven, and in Figs. IV V VI VII VIII IX X XI and XII, 1st. Constructing and arranging the baking oven of a cooking stove so that the lower part of the rear portion of the baking oven or that furthest from the fire chamber shall extend backward beyond the upper portion; 2nd. The combination and arrangement of a water reservoir over the backwardly extended lower portion of a baking oven 3rd. The arrangement of a water reservoir apported over the rearwardly extended lower portion of a baking executed lower period of a baking oven . 3rd. The arrangement of a water reservoir supported over the rearwardly extended lower portion of a baking oven so that the rear plate of the reservoir will be flush with or in substantially the same plane as the outer vertical rear plate of the stove: 4th. The arrangement with the rearward extension C and water reservoir Ethe extension boiler flue O, diving flues P P, up cast flue S, damper U and exit passage T.

No. 6534. (Shutter Worker and Blind Slat Adjuster.

(Fermeture des contrevents et serre-lames de persier nes.) George M. Robinson, Chicago, Ill., U. S. (Assignee of Henry J. Dickerson), 13th September, 1876, for 10 years.

Claim.—1st The disk or who of B applied to the shutter hinge in combina-tion with the chain friction strap or spring hi and the sliding bar or rod II applied and operating to open and close and fasten the shutter from the indide; 2nd. The combination with the sliding bar II of the forked lever k for operating the pivoted slats of the blinds

No. 6535. Type Casting and Setting Machine.

(Machine a fondre et poser les caracteres.)

Charles S. Westcott, Elizabeth, N. J., U. S., 13th September, 1876, for 5

Claim.-1st. The matrix stock c and matrix 3 connected together by the Claim,—1st. The matrix stock c and matrix 3 connected together by the screws 2, which also form pins for retaining the matrix and stock on the fraunce, 2nd. The carrier B having gripes d, sliding block 1 and swinging block 5, in combination with the pins and slots 6 7 and 8; 3rd. The frames carrying the matrix stock c and shiling in grooves between the bar b, in combination with the transversely grooved bar s and mechanism for raising and lowering the same: 4th. The range of frames c carrying the matrix stocks c and shiling endoses between the bars b₀, in combination with the and owering the same; 4th. The range of manes carrying the matrix stocks e and sliding ends ose between the bars b₄, in combination with the bars l₄ plus n and a range of larger keys moving such jons and mechanism for noting upon such pons to move the frames and bring the selected matrix stock into the path of the carrier; 5th. The notched stationary grating k in combination with the slide bars l and junion in combination with the slide bars l pins n and frames e. The The cross bar o in combination with the slide bars l pins n and grating k; 8th. The lifting pins t₅ leves be and keys l in combination with the slide bars l, pins n and grating k; 8th. The lifting pins t₅ leves be and keys l in combination with the slide bars l, pins n and bars h and l, 9th. The claw n and frames r in combination with the range of finger keys l and mechanism actuated by such keys; I th. The bath of type metal provided with a casting nipple in combination with the bath of type metal provided with a casting nipple in combination with the bath of type metal provided with a casting nipple in combination with the bath of the nipple 3t entering a similar recess at the end of the nose upon the bath, in combination with the device 2t for holding the nipple to nice but allowing such nipple to accomodate itself to the type mould; 13th. In combination with the bath of melted metal and the conduit 30, a plunger n actuated by yielding mechanism and the valve and red to that are renovable from the rear without disturbing any of the parts of the bath; 14th. The principally in actuated by yielding mechanism and the valve and rod 16 that are removable from the rear without disturbing any of the parts of the bath; 14th. The mouth frame 13 suspended from the centers 36 in combination with the removable plate a and the type mold, 15th. The two part type mold v v in combination with the regulating plate r, that is adjustable to vary the width of type; 16th. The combination with the molds v v and regulating plate, of the matrix stock and a connection 32 between the matrix stock and inconnection 32 between the matrix stock and inconnection 32 between the matrix stock and the plates rs for tarying the thickness of the type according to the letter to be cast; 17th. The plunger 40 and lever 42 in combination with the molds v v v for pressing such molds together previous to casting; 18th. The bar4, hook 51 and means for actuating the same, in combination with the molds v v and the matrix and its carrier; 19th. The combination with the molds v v and regulating plate v of the delivery hook v; and mechanism for giving the motions to the respective parts; 20th. The combination with the molds v v of the regulating plate v and mechanism for moving said regulating plate v ri and mechanism for moving said regulating plate v ri and mechanism for moving said regulating plate v ri and their supporting frame in combination with the mechanism for opening such molds and moving them laterally, and the delivering the molds v v and their supporting frame in combination with the mechanism for opening such molds and moving them laterally, and the delivering detice v; that receives and withdraws t.v type. 22nd. The trough 57, spring and book v in combination with the type monids and mechanism for moving the book. 22nd The grapers 55 and 59 in combination with the puther 63 and contained with the movable block 66 and pusher 63, 25th. The composing table 77 and pusher 78 in combination with the trough 79 upon the slide 71; 26th. The beli 80 attached to the quad that moves with the types upon the composition table in combination with the adjustable tappets 81.

No. 6536. Improvements on Brooms

(Perfectionnements aux balais.)

Smith M. Kellogg. Abscotn. and George C. Wetherhee, Detroit, Mich., U.S. 13th September, 1876, for 5 years.

Claim.—1st. The handle A, head block or form B and broom brush C; 2nd. The parts 5 B C and D

No. 6537. Electric Railway Signal.

(Signal électrique de railroute.)

David Rousseau and William C. Smith, New York, U S., 15th September, 1876, for 5 years.

Claim.—ist. The combined index and clapper E arranged between two goings or sounders F and G, 2nd. The lever II pivoted to the index clapper E and combined with the arimiture lever to transmit the motion of the armature to the index clapper, 3rd. The plus or projections h and i applied to the vibrating index clapper I and combined with the springs j and k; 4th. The annunciator I combined with the vibrating index chapper E and with the goings or sounders F G; 5th. In combination with the vibrating fixex ciapper E the insulated plate J and conductor prongs or springs r s u v, &c. 6.h. The combination of the tube Hz formed on the circuit closer with the inner rings or plates hz ix and the sliding sleeve or plate k; 7th. The rod lx placed within the enshion Cx and through the rings ix hx and combined with the sleeve k and plate Bx. 8th. The cushion Cx tanged on the top and bottom and combined with the plates Bx and Bx and Ix and screw rings Ex and Gx; 9th. The conductor F bx carrying the plate px and with the cushion rx and screw x; 10th. The combination of the upper and lower movable plate hx ix with the intermediate plate or sleeve k which is capable of motion, all arranged to constitute a circuit closer; 11th. The trigger fx pivoted to the armature lever Fx and combined with the lng dx that projects from said armature lever; 12th. The projecting book wx attached to the armature lever Fx, in combination with the projecting stop Xx on the arm bx of the signal; 13th. The friction rollers to yx combined with the projecting arms gx hx of the signal shaft and with the springs px, qx rx xx xx. 2xx. 14th. The slide 11x carrying the slotted arm qx and combined with the rope Ex which his she has be slotted arm qx and combined with the rope Ex which his she has 5x for the puprose of raising said slide. raising said slide.

No. 6538. Fanning Mill. (Tarrarc.)

Andrew W. Kendrick, Brooklyn, N. Y., U. S., 15th September 1876, for 5

years.

Claim.—1st. The combination with driving wheel N and crank pulley J operating the shoe F of the piaion II, and pulley II ridgidly secured to gether and detachably secured to the fan shaft R for the purpose of allowing the separator to be used at with, either with or without the blast, 2nd The combination of pulley J having the cam projection J with the adjustable jarring lever I and separator or shoe F; 3rd. The combination of the shoe F, bracket p, duplicated levers K Ki, with adjusting holes by which an oscillatory motion is commanicated to the shoe, which motion may be so directed as to produce greater velocity at one end of the shoe than at the other; 4th. The combination of slides Bi having delivery orifices in its lower edge piveted slats or gates C and adjusting bar D to which said slaty are pivenally connected; 5th. The sieve or screen made of zuce or other suitable material filled with perforations.

No. 6539. Improvements in Reed Organs.

(Perfectionnements aux orgues à anches)

Richard McMillan, Kingston, Ont., 15th September, 1876, for 5 years

Claim.—The action $a\ b\ c\ d$ and so constructed as to operate the valve in the position described also the independent draw stop h and rod i for the forte swell.

No. 6540. Life Preserver in case of Fire.

(Appareil de sauvelage en cus d'incendie.)

Joseph Roch and Jules Colas, Montréal, Que., 15th September, 1876, for 5

Résumé.—lo La combinaison avec une corde passant autour d'une poulie d'une spirale traversée par la corde et portant les moyens de sauvetage, 40. La combinaison de la poulle C. contenue dans la boîte A avec extension As, corde D, spirale F et pinçons E.

Claim.—1st. The combination with a rope passing around a pulley of a spiral crossed by the rope and sarrying the means of escape; 2nd. The combination of the pulley C placed in the box A with extension Λ_1 , rope D, spiral F and pinches E.

No. 6541. Cooking Vessel. (Ustensil de cuisine.)

William Y. 4 homson, Oyster Bay, N. Y., U. S., 15th September, 1876, for 5 years.

Claim.—The back part of the vessel A2 found lower than the front A1 to allow the cover to pass horizontally between the flange a2 and stops a2.

No. 6542. Mail Bag Catcher.

(Accroche-valise de poste.)

Alfred B. Whipple, Auburn, N. Y., U. S., 15th September, 1876, for 5 years

ist. The combination of fixed bar A, movable bar Rand swinging had C. John The boxes or keepers XX holding the bar A and provided with V-shaped inside faces, 3rd. In combination with the mail bag catcher the post G mounted on platform H and having pivoted arms K and L provided with laterally moving pieces k and l

No. 6543. Coin Package.

(Empaquetage de monnaie.)

Charles F. Tront, Boston, Mass., U. S., 15th September 1876 for 5 years.

Claim.—The tongue d, the piece a and its extensions b, said tongue being provided with a fastening band or elastic loop, also the body part of the package as made of the piece a and its extensions b, arranged, applied and secured together.

No. 6544. Machine for Baking Bread and Cooking Cattle Feed.

(Machine à cuir le pain et les aliments des bestiaux.)

John Carroll, Strathroy, Ont., 15th September, 1876, for 5 years.

Claim.—The concentric cylinders A and B placed within the other A being a fire chamber and B a receptable for water, to door at fire chamber. G ventilator or draught, smoke stack D, guage E pipe K, steam box I, feeder L, cooking chamber O, pipe M for heated steam and movable bottom P.

No. 6545. Device for Stretching Curtains.

(Appareil pour étendre les rideaux.)

John S. Patterson, Toronto, Ont., 15th September, 1876, for 5 years.

Claim.—The stretcher frame E constructed with jointed b.rs A and B chamfered on the inner edge of face and cross bars C and D plain, and the combination therewith of the screws ϵ hinges ϵ clasps f_{ϵ} headless pins d_{ϵ} ad justing holes v and marks r.

No. 6546. Air Heating Stove Pipes.

(Tuyaux de poëles chauffant l'air.)

George Taylor, Smith's Falls, Ont., 16th September, 1876, for 5 years.

Claim.—1st. The partition B deviding the stove pipe into an air chamber G and a smoke chamber D, in combination with the stove pipe A, 2nd. The air chamber B having the entrance opening E with a damper G and the exit opening F, in combinations with the smoke chamber D.

No. 6547. Manufacture of Gas for Burning.

(Fabrication du gaz de chauffage)

Thomas B. Redwood, London, Eng., 16th September, 1876, for 5 years.

Claim .- 1st. Causing gas distilled from coal, after it has been passed through Cam.—18. Causing gasustinear out, after it has been passed through the hydraulic main, to come in contact with copper or an alloy of copper kept in a highly heated state and arranged so 28 to expose a large extent of surface; 2nd. The use of tubes of copper or an alloy of copper in the con-verter arranged so as to subdivide the current of gas and expose a large extent of highly heated surface.

Improvements on Sewing Mac-No. 6548.

(Perfectionnements aux machines à coudre.) hines.

Charles Schunoff, Chicago, Ill., U. S., 16th September, 1876, for 5 years

Claim.—1st. The friction feed wheel B, the cog wheel B₁ and l, the friction wheel L and its slide I₁, the connecting rod II, lever D₁ and the operating cam C₁, 2nd. The cam C₁ lever D₁, link d and lever E, 3rd. The levers D₁ and G, rod F, pin G₁, bar 111 and spring i₂, arranged so as to control the contact of the friction bar I i with the wheel L. 4th. The ways I, iriction slide I₁, spring i₂, rod II, levers D₁ and cam C₁ i₃; 5th. The adjustable stop K in connection with the sliding friction bar I for regulating and adjusting the length of stroke of the slide I and consequently the length of the stiches made by the machine, 6th. The automatic indicator M N O o K₁₁ K₁₁₁.

No. 6549. Water Forcing Elevator.

(Elévateur à cau foulant.)

Daniel Conrod, Toronto, Ont., 16th September, 1876, for 5 years.

Claim.—The utilization or application of compressed air for forcing and elevating water and all liquids from low to high levels and from any one place or position to any other place or position; 2nd. The combination for such purpose of A B B: C D Di Dii E F G H K with or without a wooden piston I J.

No. 6550. Improvements in Quartz Mill.

(Perfectionnements aux moulins à quartz.)

David D. Mallory, Mystic Bridge, Ct., U.S., 16th September, 1876, for 5

Claim.—1st. The combination with a suitable easing A of two or more wheels or beaters B₁ B₂, &c., revolving in the same direction and projecting their particles against each other at the point m; 2nd. In combinat on with the two or more wheels or beaters B₁ B₂ &c., enclosing cassage and suitable feeding and discharge passages, the lining a of blas mate that being treated accumulated within the casing A; 3rd. In combination with the easing A and two or more revolving wheels or beaters B₂ B₃, the discharge passages c, separating chamber E and return passage c, adapted to assort the particles and earry the coarser particles into the feed passage G, 4th. Two or more wheels or beaters in combination with each other and with an enclosing case so operated that the particles are thrown from the beaters of one wheel against the beaters of another wheel, or against particles thrown from the latter moving m an opposite direction with an increased effect. with an increased offect.

No. 6.:51. Hay Rake. (Rateau à foin.)

Charles L. Corbin, East-Oxford, Ont., 16th September, 1876, for 5 years.

Claim,-1st. The combination of the iron bands c c with the booked braces F I and the application thereto of the slide G and the tightening screw M, 2nd. The combination of the more simple form of the from frames D D with the more simply formed springs E.E.

No. 6552. Improvements on Coal Stoves.

(Perfectionnements aux poëles à charbon.)

George Bingleman (Assignee of Harmon Gillmore), Simcoe, Ont., 16th September, 1876, for 5 years.

Claim.—1st. The combination of the central pipes AA in sections and the branch pipes BB, 2nd. The confountion with the central pipes AA and BB of the horizontally arranged shaker in sections DD.

No. 6553. Improvements on Construction of Railways.

(Perfectionnements dans la construction des radioutes.)

Charles Hughes, Wilham Angus, John Macfarlane and James Macfarlane, Montreal, Que 16th September 1876, for 5 years

Claim—1st. The combination of the switches d|g with rails a|b|c and |i|f. and The combination of the bar n-links a and g with switches g and k. 3rd. The combination of the bar n-link a and arm r with switches d-and l. 4th. The chair s-having bridge piece u and fared or beveiled end. 5th. The chair u-flaving bridge piece u of the The rail t, begins always u. having flange w.

No. 65.4. Bench Vice. (Etau d'établi.)

Auselm Vzilleux, New Richmond, Wis., U. S., 16th 'eptember, 1876, for 5

Claim.—The perforated shding bar D provided with a slot at its outer end for the reception of the wedge b and the stationary jaw B having the dog a, in combination with the movable spring jaw B, toggies G G: and sliding bar F.

No. 6555. Improvements in Piston Packings.

(Perfectionnements des boîtes d'étoupe.)

Jackson Richards, George W. Waitt, John Haldeman and William H. Malin, Philadelphia, Pa., U. S., 10th September, 1876, for 5 years, **(Tatin = 1st The combination of the close I fillings h and spring H, with the arms or lugs and packing rings C C and D for setting out the packing, 2nd The combination of a spring H with the inner packing ring D having a pin f and a clip F having a steady pin f whereby to prevent the turning around of said rine D. around of said ring D.

No. 6556. Spring Motor. (Moteur a ressort.)

Edwin Lumbkin, Sebewaing, Ont., 16th September, 1876, for 10 years.

Claim.—1st. The combination of the drum F, combined end cap and beve wheel N, spring G, rings H and interposed disk or disks I with the shaft E to be driven. 2nd. The combination of the pulley of drum T, the strap U, the protect bar W and the bent lever X, with the shaft P and the gear wheels N O Q R that connect the spring drum G H F with the axie or shaft D to be driven. 3rd. The combination of the fork Z, the arms A G, the sliding bar B and the shiding sleeve S, with the gear wheel R of the axie or shaft D and with the lever X that operates the brake T U.

No. 6557. Improvements in Planing Ma-

chines. (Perfectionnements aux machines à raboter.)

Ira F. Thompson, Boston, and John D. Wheeler, Lynn Mass. U. S., 16th September, 1876, for 5 years.

Claim.—1st. The combination of one or more knives A with one or more yielding pressure bars B; 2nd. Two or more knives and two or more yielding pressure bars, each knife being provided with its respective pressure bar, 3rd. The combination of the yielding supports D and slots a with the set screw b.

No. 6558. Potato Crull Machine.

(Machine à trancher les patates.)

Anaxamander Herring, Crown Point, N. Y., U. S., 16th September, 1876, for 5 years.

Claim-1st. The combination of the fork B and a slicing knife back L turning upon a pivot K., and. The process of making cruis of continuous strips cut or shaved from the periphery or sides of a potato; 3nl. A crull formed of a continuous strip or ribbon shaved off from the body of the potato previous to cooking.

No. 6559. Car Axle. (Essieu de wagon.)

George W. Miltimore, Jamesville, Wis., U. S., 16th September, 1876, for 5 years.

Claim.—is. The outer axie or sleeve made of a lateral wrought iron section and east iron end section. 2nd. The inner stationary axie having a tion and east iron end section. 2nd. The inner stationary axle having a horizontal and vertical oil duct or channel with a vibrating feed pin, in combination with an air ignit reservoir of the pedestal box and with the revolving journal box of the outer sleeve or axie, and. The combination with the pedestal box of the stationary axle having a cork disk washer and hollow screw plug to form the oil tight joint between the pedestal box and axle, 4th. The combination of the closing screw nut or cap of the outer axle or sleeve, said cap having an outer rim or b ad with, drip oil chamber below the stationary axle; 5th. The combination of the revolving journal box having a convex annular part and tapering ands with the annularly concaved and inclined revolving sleeve and intermediate ring to provide for the oscillating motion of the journal box, 6th. The combination of the outer closing and a loose intermediate wisher or ring to take up the lateral motion between the pedestal block and end of screw but so as to remove it from the journal box.

No. 6560. Portable Engine. (Machine portative.)

John Abell, Woodbridge, Ont., 18th of September, 1876 (oxtension of patent No. 1173), for 5 years.

Claim.—The combination of the (exhaust) steam chamber A and water pipes or tubes b arranged in the frame of a portable engine and forming a heater.

No. 6561. Improvements in Water Conductors. (Perfectionnements dans les tuyaux d'eau.)

Joseph Archer, Quebec, Que., 19th September, 1876 (extension of patent No. 1153), for 5 years.

Claim.—The opening in conductors which prevents them from bursting by ice.

No. 6562. Soap Boiling Apparatus.

(Appareil à cuire le suvon.)

Archibald O. Glass, Detroit, Mich., U. S., 19th September, 1876 (extension of patent No. 6412), for 5 years.

No. 6563. Soap Boiling Apparatus.

(Appareil à cuire le savon.)

Archsbald O. Glass, Detroit, Mich., U. S., 20th September, 1876 (extension of patent No. 6412), for 5 years.

No. 6564. Improvements on Baker's Combined Hand Scoop and Sifter.

Perfectionnements à l'écoupe tamis dit " de Baker.")

Joseph Baker, Treuton, Ont., 21st September, 1876 (extension of Patent No. 1154), for 5 years.

Claim.—1st. The sifter B and its combination with scoop A and the power of replacing it as required; 2nd. The combination and arrangement of the detachable spir. I spring F and thumb knob G with agutator II, and the power to remove and replace and spring at will.

No. 6565. Process for making Manure or

Compost. (Procede pour facre de l'engrais ou des composts.)

George A. Kay, Sussex, N. B., 25th September, 1876, for 5 years.

Claim.—1st. The process of making manure or compost by mixing of lime, potash, vegetable matter and water.

No. 6566. Art of Pressing and Bundling

Cigars. (Mode de pressage et de mise en botte des eigares.)

Mona Lesser and Esther Jacobs, Montreal, Que., 25th September, 1876, for 5 years.

Claim —1st. A package or bundle of eigars enveloped in a sheet of wood veneer; 2nd. The process of pressing eigars, while in a green state, by binding them together in a sheet of wood veneer.

No. 6567. Improvements in Tool Holders and Cutting Tools.

(Perfectionnements aux porte-outils et instruments tranchants.)

Alfred J. New, Reuben A. Matthews and William H. Berry, Nottingham, Eug., 25th September, 1876, for 5 years.

Claim.—1st. The construction of the tool holder; 2nd. The three special sections of steel particularly adapted for the rectangular tapered slot of the tool holder.

No. 6568. Combination for Scraping and Brushing Boots.

(Appareil à décretter et circr les chaussures.)

Charles L. Minskowsky, Bresiau, Ont., 25th September, 1876, for 5 years.

Claim.—The combination of the scrapers with the brush box.

No. 6569. Door Spring. (Ressort de porte.)

10. 00000 15001 Spring. Tressor the Porter,

Charles T. Sabin, Montpelier, Vt., U. S., 25th September, 1876, for 5 years.

Claim.—The detent or pin D provided with the retracting spring b in combination with the case B, disc A having perforations and lever C.

'No. 6570. Improvements in Lamps.

(Perfectionnements dans les lampes.)

George D. Burton, New Ipswich, N. H., U. S., 25th September, 1876, for 5 years.

Claim. — 1st The combination with the frame lantern and lamp suspended by means of a chain D in the post A B N, of the grooved weight K and pin or bolt L. 2nd. The combination of the weight K, chain or chains D, curved arm or curved arms C, sliding frame E and pin or bolt L.

No. 6571. Ditching Plough.

(Charrue à fossoyer.)

Hugh Derby, Templeton, Que 25th September, 1876, for 5 years.

Claim.—1st. A ditching plough with double mould boards G in combination with the double cutting point D; 2nd. The double cutting point D with round curved centre D_3 , the bars S, slot T, standard S_2 , pin S_3 and bar O, 3rd. The mould boards with curves C, straight portions G^2 and upward and outward curved projection G_3 .

No. 6572. Improvements in Harvesters.

(Perfectionnements aux moissonneuses.)

Christopher C. Brudley (Assignee of Robert D. Warner), Syracuse, N. Y., U. S., 25th September, 1876, for 5 years.

Claim.—1st. The method of automatically opening and closing the gate of a harvester rake cam way by means of the rake arms; 2nd. Harvester rake arms provided with lugs in combination with and adapted to, rotate the ratchet wheel I, 3rd. The ratchet wheel I provided with lift teeth a a in combination with the weight lever K, the lank piece M, angle arm N and the outlet gate F; 4th. The angle spring O in combination with the angle arm N and cam way E to keep the outlet gate F open; 5th. The link piece M provided with a hole f in combination with the weight lever K provided with the hole E, so arranged that when the holes are made to coincide and a pin passed through both the free extremity of the lever K will be out of contact with the hift teetha a to the end that all the arms may rake; 6th. The purs C on the weight lever K in combination with a right angular slot R in the link piece M. 7th. The combination of the balance weight P controlled by a gord or cbain, the slotted link Q and the pin d upon the link piece M.

No. 6573. Improvements on Horse Rakes.

(Perfectionnements aux râteaux à cheval.)

James Henderson, Williamsburgh, and Thomas Campbell. Morrisburgh, Opt., 25th September, 1876, for 5 years.

Claim.—The combination of the lever C B E \odot and F with the lever A and with the risk head and bracket H secured to the frame of the rake

No. 6574. Improvements on Salt Evaporators.

(Perfectionnements aux évaporateurs de sauncrie)

Herbert Harrison, Goderich, Ont., and Natt Stickney, Dracut, Mass., U-S 25th September, 1876, for 5 years

Claim—1st The salt evaporator A consisting of a vertical brine cylinder Asencircling steam chamber Ase, pocket D, valve E, trap door H and agitators D; 2nd. The combination of the evaporators A, pipe K, evaporator L, pipes M and brine receiving tank Ms all arranged for the purpose of utilizing the heat of the steam from the evaporator A; 3rd. The Imaged trap door H, consisting of the metallic disc Hs with packing piece Hs, binged bar Is and lever cam I.

No. 6575. Vehicle Spring. (Ressort de voiture.)

Abel A. Crosby (Assignee of Sebastian Guiniger) Randaut N Y V 8 25th September, 1876, for 5 years.

Claim.—1st. A coiled vehicle spring secured to the vehicle by a yielding fastening device, 2nd. The combination of a coiled vehicle spring with yielding joint interposed between said spring and the body or axies of the vehicle.

No. 6576. Machine for Turning Shafting and

Serews. (Machine à tourner les axes et les vis.)

Alexander Stewart, Dundas, Out., 25th September, 1876, for 5 years.

('laim.-1st. The combination of the head piece A and the three sliding tool holders B B B; 2nd. The combination of the disc D with the too' holders B B B and the steady head A.

No. 6577. Fanning Mill. (Tarrarc.)

Hector Munn, Arran, Ont., 25th September, 1876, for 5 years.

Claim.—1st. The fan wheel constructed of the hab a spokes b peripheral ring B and fans C combined; 2nd. The combination of the rack E, pinion F and shaft C with the hopper D for operating its side; 3rd. The seive G secured to bar e, hinged to the shoe and covering a spout H; 4th. The provision to the hopper D of the removable frame K comp we of vertical sides fitting rectangularly and supported by the clongated pasts L of the mill

No. 6578. Improvements on Wheels.

(Perfectionnements aux roues.)

George H. Stevens, Ionia, Mich., U.S., 25th September, 1876, for 5 years.

Claim.— 1st. The hub having a lubricant chamber II surrounding the box and communicating with the interior thereof; 2nd, The same box J in combination with the cap F, core D and box G, and with the mortises A and flanges B; 3rd. The felly plate K with tenon zocket L; 4th. The felly with shoulders opening P and spoke with short tenon; 5th. The mortises A and plate B, in combination with the core D and wedge E and cap F and with the shell C which, with the core, surrounds the box with an intervening chamber.

No. 6579. Rotary Gang Plough.

(Charrue rotatoire à soes multiples.)

John K Underwood, Sank Centre, Min., U. S., 28th September, 1876, for 5 vents.

Claim—1st. The horizontal arm E rigidly attached at its forward end to the truck, the diagonal brace F attached to the rear part of the arm E and to the forward part of the implement the 1 ent vertical part of the said brace forming the plough beam, guards or keepers and the pivoted and diagonally arranged plough beam having its free end arranged, in the said keepers: 2nd. The combination of the hent arm E, pivoted plough beam I, beam guide F, lever H, ratchet G, pawl a, connecting rod b and dish-shaped plough wheels J J set diagonally to the line of draft; 3nd. The combination of the plough beam I having a broad or flat central part, the separate axlee c, clongated loops d d, muts e e and wheels J J Journalied adjustably on the single beam. single beam.

Process of Refining Petroleum and other Oils. No. 6580.

(Procéde d'eparation du petrole et autres hades.)

John S. Robinson, London Out. 93th September, 1876, for 5 years.

Claim.—The process of refining petroleum. &c., by mixing therewith chloride of sodium dissolved in water before treating it by any of the known

No. 6561. Process and Apparatus for the Manufacture of Carbonates of Soda.

(Procede et app. 1 de fabrication des carbonates de soude.)

Ernest Solvay, Brussels, Belg., 28th September, 1876, for 5 years

Claim.—1st. With reference to the decanters in the combination of parts of decanting apparatus, that is to say: the combination of the body A and central tube B and come K, actuated by it lever M and rod N, and the inlet and outlet pipes C E and the scraper G actuated from the hand wheel I and the draw off cock 1, 2nd The combination of a second pump barrel placed between the carbonic acid gas forcing machine and the absorber. Srd. With reference to the absorber the combination of the guides G G with the false bottoms F in the absorber on also the combination of a central rod A with the false bottoms F in the absorber on also the combination of valves open my inwards at R and E with the absorbing column a: 4th With reference to the absorbing column a also the combination of valves open my inwards at R and E with the absorbing column a: 4th With reference to the apparatus for filtering liquids containing bicar bonate of sold the combination of the vacuum filters a of a revolving pipe z perforated with holes or grooved for the purpose of spreading the liquid to be filtered, or the liquid for washing miformly upon the filter, also the combination of the pump A and water piston B₁, to create a vacuum by the interposition of a reservoir Q into which the filtered liquid passess 5th. With reference to reducing the alkaline strength or purity of the soda in the process of introducing into the filter a solution of 8, 1, 6th. With reference to the scraping app ratus used in the treatment of bicarbonate and carbonate of soda, the comoirm on of a rotary shaft B, arm Cand scrapers D; 7th. With reference to me apparatus for the two fold purpose of drying the bicarbonate or converting it into carbonate, the combination of the distributor A, scraper M, shaft N aperture c, cylinder C, shaft S, wings U, chest E and chi ey H, laso the combination of the chest A, screen B and tubes T T. 8th. With reference to the apparatus for reducing the density of the birne, the combination of the pathers of the pathers of the pathers or stop Claim .- 1st. With reference to the decanters in the combination of parts

No. 6582. Improvements in i ostage and other Stan ps.

(Perfectionnements aux timbres-poste et autres.)

Louis H. G. Ehrhardt, Joseph R. Carpenter, and Robert E. Peterson, Philadelphia, Pa., U.S., 28th September, 1876, for 5 years.

Claim.—A postage of r. chao stamp or other monetary paper printed upon paper previously treated with a soluble non-adhesive size composed of gum tragacanth, disc. ed starch and acetate of albumine or their e- tivalents and wixed.

No 6583. Improvements on Sulay Harrows and Hay Rakes.

(Perfe sionnements aux herses à siege et aux râteaux a fora.)

Solomon Frank, Strathroy, Ont., 28th September, 1876, for . years.

Claim.—lat. The segment F and lever G, in combination with coupling rods J, dog K and bridge I 2nd. The chains M Mr Mz, in combination with segment F and axle A, 3rd. The bolt N and collar and thumb screw P, in combination with throat I, tongue O and double tree Q.

No. 6584. Process for Treating Grain.

(Procédé de traitement du grain.)

Rudolph d'Hem ax, New York, U. S. (Assignce of Julius d'Heureux), 28th September, 1976, for 5 years.

Claim—1st. The process for disintegrating or reducing grain seeds and surilar products to a pulpy mass consisting in treating the entire grains or seeds, whole or broken in a close vessel by high pressure steam or by heat and an equivalent pressure; 2nd. The process of mushing and extracting malt and of sa charifying unmalted material by subjecting the malt or other

material in a close vessel to pressure by direct steam from above by compressed air or other gases or to an equivalent pressure, 3rd. The process of preparing pulp or paste from cereals, grains, seeds. &c. consisting in softening the substance of the articles so as to losen the pulp from the bull, and then forcing the mass against a sievejor filter to separate the hard from the soft portions; 4th. The process for producing wort or sweet mash from malterither alone or mixed, with starchy substances consisting in treating the material with water under pressure, at a temperature less than 2125 Fah., so as not to destroy the diastase end to more effectually digest and saccharify the material. the material.

No. 6585. Manufacture of Gas from Liquid Hydrocarbons and Apparatus for the same.

Fabrication du gaz d'hydrocarbures liquides et appareil pour cct objet)

Silas C. Salisbury New York, U. S., 28th September, 1876, for 5 years.

Silas G. Salishiry. New York, U. S., 22th September, 1876, for 5 years.

Claim.—1st A continuous process for converting liquid hydrocarbon into gas, to wit injecting by means of superheated steam at high pressure a spray or atomized jet of liquid hydrocarbon into a blast of hot air whereby it is conveyed into and through a series of hot retorts wherein its conversion and inflammable gasts completed. 2nd. An apparatus to produce a hot blast consisting essentially in the combination of a hot blast oven a steam generator and a hot blast operator at a high pressure; 3rd. A hot blast oven and a blast injector taking steam from said steam generator combined with a hot feed pipe F lab in the waste beat space of said oven. 4th In combination of a hot blast oven and a blast injector taking steam from a steam generator through a superheater pipe I, laid in the waste space of said oven; 5th. The retorts B B arranged in purallel rows to economise space and fuel; 6th. A hot feed pipe F and retorts B B combined with a blast injector G and retorts B B combined with a blast injector B B combined with a blast injector B B combined with the feed pipe F and gate f for the purpose of regulating and controlling the flow of air to the blast pipe; 2th. A superheater composed of a wrought from steam pipe encased withou and protected by a cast tron jacket; 9th. An injector G provided with two steam jet pipes within it; 10th. In combination, to form an apparatus for the continuous manufacture of gas from liquid hydrocarbon consisting essentially of a series of retort, in a hot oven, a blast injector operated by a jet of high pressure superheated steam and a supply pipe to deliver liquid hydrocarbon. 1th The combination of a series of retorts B B set in a hot oven, a steam injector G, a hot feed pipe F and a supply pipe M entering the supplemental bot blast chamber p within the steam nozzle of said injector and delivering liquid hydrocarbon; 12th. A blast of hot air to receive and warm a jet of liquid hydrocarbon; 12th. A blast of hot ai Claim .- 1st A continuous process for converting liquid hydrocarbon into back pressure from the injector

No. 6586. Improvements on Freezing Apparatus. (Perfectionnements our appareils de congélation.)

Joseph C. Ayer, Ambet A. N. S., 28th September, 1876, for 5 years.

Claim.—1st. The construction of the freezing apparatus with an interior lining of plaster D; 2nd. The mode of securing the plaster conting to the wall B by contact with units or pure F having flanged heads usserted in and projecting from the wall, 3nd. The freezing tubes G H I of rhomboid or diamond form in cross sections and acid tube L, and their arrangement and combination with each other and with the acid pupe M. 4th. The acid tank N and i pipe M having connection with the horizontal pape L in combination with the freezing pipes G H I; 6th. The combination and arrangement, within the freezing chamber, of the cleats Y and rods X X provided with shift in hook Z.

N. 6587. Meat Machine. (Hache-viande.)

Theodore Williamd William Hunerwadel, Quincy, Ili. U. S., 28th September, 1876, for 5 years.

Claim.—1st. The circular and rotary concavo-convex knives P, in combination with the block E; 2nd. The combination of two or more groups of knives P; 3rd. The spring M in combination with come V having knives P, 4th. The stripper R, 5th. The stripper R in combination with the knives P and block E.

No. 6588. Washing Machine. (Machine à laver.)

John J. Shotwell, Wella, 'Out , 28th Septembre, 1870, for 5 years.

Claim.—Ist. A series of alternately swinging plungers. B operated by a revolving crank shaft C, in combination with a swinging and spring acted roller rack D, 2nd. The combination of the swinging roller rack D having lateral brace piece e with the shding rolls f and springs of a pivoted top piece of the tub, to produce constant spring action on rack D; 3rd. The combination of the swinging spring rack D with a cord and outer pivot lever g; and fastering hook for locking the spring rack to wall the tub and facilitating the handling of the clothes in the same.

No. 6589. Improvements on Cossins.

(Perfectionne. ents aux cercucils.)

James Richey and Lachlan H. McDougall, Cincinnati, Ohio, U. S., 28th September, 1876, for 5 years.

-A sectional collin whose component members are securely united together by a system of doverall grooves and correspondingly shaped ten-ons. 2nd A sectional collin whose body consists of tongued bottom A B, grooved and tenoned ends C c D C ct D i and corner pieces E E: En Eni, which latter are provided with doverall sockets e et en eni, wherewith said whose body A B C c D C i C i D E e E i et En En Entern Linear I J J z j a sectional collin whose body A B C c D C i ct D E e E i et En en Entern I j J z j i secured together by the application of the filling N which unites the bottom with one of said corners pieces; 4th. The metallic corner piece $E \circ F$ (i. G. for application to a sectional codin; 5th. The wooden rib H located at the upper inner end of a metallic corner piece E and serving us a means of attachment for the ining of the codin; 6th. The gasket L fitted in a groove on the under side of the E and E and E and E are the initial E and Eside of lid K and adapted to form an air tight joint when said lid is secured to the body.

No. 6590. Improvement in Steam Traps.

(l'érfectionnement des trappes de rapeur.)

John J. Royle, Manchester, Eng., 28th September, 1876, for 5 years.

Claim.-1st. Discharging air and water of condensation from vessels containing steam, the employment of an open bottomed condensing chamber for actuating a plug cock or valve; 2nd. The method of working the air valve of steam trape.

No. 6591. Navigator's Protractor.

(Rapporteur de marine.)

Joseph D. Leach and Sewall Leach, Penolscot, Me., U. S., 12th September, 1876, for 5 years

Claim .- The card a subdivided and marked as a compass card, the rotary holder c and rule b, the holder c being so pivoted to the centre of eard a at f as that one edge of rule b shall bisect pivot f, and the rule and holder being so constructed and arranged as to allow a lineal adjustment of the and card relatively to the rule as well as a rotary adjustment of the card relatively thereto.

No. 6592. Ballot Box. (Urne de scrutin.)

Willoughby H. Nicolls, Barton, Ont., 28th September, 1876, for 5 years.

Claim .- The wheels A and B, the box frame C, the metal frame D, the half Eso enclosed as no other half can work the machine, the tumbler F, the plunger H, the keeper I, the trap J, the bell L and bell lift M, the main lock N and the locks O O O that secure the wheels.

No. 6593. Improvements in Fallow Cultiva-10rs. (Perfectionnements aux culticateurs de jachères.)

John Richardson, Aucuster, Ont., 28th September, 1876, for 5 years.

Claim.—1st. In combination with a cultivator the movable and adjustable lower frame D for attaching the teeth thereto: 2nd. Adjusting the lower I frame D by means of rode P and nuis R in front and lart O with pin e in the I Claim.—The arrangement of the air valve I on the opposite side of the rear. 3nd The ratchet wheel M and pank N with chain Q for raising and I central portion d to that in which the discharge orifice is located; the lowering the lower frame D: 4th. The draught lart G bolted to the tongue I hollow serew shank b in combination with the central portion d, bulb supand passing through the link H attached to look L and also through the bar J arranged for a light draught: 5th. The form and construction of the teeth i liquid tube m, in combination with the hollow screw shank b.

No. 6594. Navigator's Bearing Indicator.

(Compas de repère pour les navigateurs.)

Joseph D. Lench, Penobscot, Me., U. S., 28th September, 1876, for 5 years,

Claim.—1st. The bed d provided with the ears c c or their equivalents, the lubber mark c, revolving eard h, locking screw f, standard j with its pointer m and locking screw I and the pivoted sighting tuben.

No. 6595. Sub-Aqueous Drilling Apparatus.

(Appareil de forage sous-marin.)

Ebenezer E. Gilbert, Montreal, Que., 25th September, 1876, for 5 years.

Claim .- lst. The boat, scow, other vessel or raft a in combination with the post whereby the vessel a may be either held in position on the water or raised above. 2nd. The vessel a, just a middfilling machines g whereby the just exercing as a guard against the action of the current or waves to the tools for boning, clearing and charging; 3nd. The combination of the post c and drilling machine g sliding thereon; 4th. The combination of the post c, drilling, clearing or loading tool k and guide i.

No. 6596. Device for Elevating and Weighing on Board of Vessels.

(Appareil à élever et peser à bord des vaisseaux.)

George Milsom, Buffalo, N. Y., U. S., 28th September, 1876, for 5 years,

lat. The combination in a steam or sailing vessel of the shorels Catin.—181. The combination in a steam or sating vesset of the souvers J with the drims K K, said drims working on a loose shaft h and the heads and clutches formed into a series of V-chaped friction rings; 2nd. The combination with a cargo carrying vessel of the stationary elevator or elevators constructed to telescope down and up; 3nd. A grain carrying vessel and in combination therewith the telescopic elevators and the partable telescopic weighing hoppers, spouts, &c.

No. 6597. Improvements on Atomizers.

(Perfectionnements aux pulvérisateurs.)

List of Patents issued up to 19th Oct., 1876, but not yet Officially published in the Patent Office Record.

No. 628. F. F. Goodman, Clinton, Iowa, U. S. A., "Goodman's Movable Copy Book," 25th September, 1876.

No. 6209. J. Varney, Montreal, Que., "Varney's Improved Dodd Machine," 25th September, 1876.

Nr. 6600. A. W. Gifford, Worcester, Mass., U. S. A., "Machine for making Metal Screws," 28th September, 1876.

No. 1601. C. H. Thompson, St. Petersburg, Pa., U.S. A., "Safety Valve," Sih September, 1876.

No. 6602. W. Porter, Ottawa, Ont., "Wood Pavement," 28th September, 1876.

No. 6603. G. H. Stansbury, Milwauker, U. S. A., A. S. Hubbell and H. S. Hubbell, Buffalo, U. S. A., "Stove Grate," 25th September, 1876.

No. 1604. Chas. Dion, Chambly Racin, Que., and Jas. Raylis, Montreal, Que., "Tempering Furnace," Sith September, 1876. No. 660L. C. C. Bradley, Syracuse, N. Y., R. S. A., "Bavester," With September, 1871.

No. 6606. C. M. Warren, Brookline, Mass., U.S. A., "Anchor Roof," 22th September, 1876.

No. 6607. J. S. Gisborne, Ruckingham, Eug., "Apparatus for Transmitting Signals," 23th September, 1876.

No. 6008. J. R. Gross, New York, U. S. A., "Process of Transferring the Grain Marks of Wood," 25th September, 1876. No. 6609. R. Menary, Orangeville, Oat., "Sleigh Brake," 2nd October,

No. 6610. O. G. Howes, W. R. Norris, J. Hall and O. W. Sheldon, Fortinne, N. Y., U. S. A., "Diagonal Door Planing Machine," 2nd October,

No. 6611. Gen. Campbell and J. Oakey. Toronto. Ont., "Safety Sleigh," and October, 1876.

No. 6612. F. Behr, Frankfort, U. S. A., and E. W. Lippert, Cincinnati, U. S. A., "Self-Glosing Valve," 2nd October, 1876.

No. 6613. D. A. Sutherland, Lyan, Mass., U. S. A., "Groved Stay," 2nd October, 1876.

No. 6614. J. Filion, St. Eustache, Que., "Le Charriot Epierreur," 2nd (Ictober, 1876.

No. 6615. R. S. Koll, Pittaburgh, Pa., U. S. A., "Circulating Device for Steam Boller," 2nd October, 1876.

No. Oil G. J. R. Reynolds Essex Centre, Vt., U. S. A., "The Lightning Corn Dropper," 2nd October, 1876.

No. (217. D. Aikman, Montreal, Que., "Coring Peat Fact," 2nd October,

No. 6618. J. Briggs. Toronto, Ont., "Fine Ventilator for Apartments," 2nd October, 1576.

No. (619. S. Martin, Hars, Oat., "Potato Digger," 2nd October, 1876. No. 622. J.M. Ayer, Chicago, HL. U.S. A., "Rubber Refrigerator Car," 2nd October, 1876.

No. 6621. R. Harter, Toronto, Ont., "Steam Exhaust and Mill Stone Curbe," 2nd October, 1876.

No. 16222. J. Beaudry, Montreal, Que., "Polygonal Lathe," 2nd October, 1876.

No. 623. C. D. Swanson and J. Mennie, Downie, Ont., "Portable Fence," 2nd October, 1876.

Nu. 62N. J. Hogeland, Indianapolis, Ind., "One-Stave Bucket Machine," and October, 1876.

No. 1625. S. F. Gold, Englewood, New Jersey, U. S. A., "Automatic Dampers," and October, 1876.

No. 6634. W. Warren, Hull, Que., "Pail and Tub's Ears," 2nd Octo-

No. 6627. J. S. McMurray, Toronto, Ont., "Pails and Tube," 2nd October, 1876.

No. 6622. John Mather, Ottawa, Oat., "Wood Pavements," 2nd October. 1576.

No. 629. Jacob Kesseler, London, Ont., "Gates," 2nd October, 1876. No. 6000. Wm. Jones, Oshawa, Ont., " Self-Locking Blind Hinge," 2nd October, 1876.

ber, 1876

No. 6631. D. M. Lamb, London, Ont., "Oil Process," 2nd October, 1876. No. 6522. Clara C. S. Franks, Toronto, Ont., "Giving Color to Photographs," 7th October, 1876.

No. 6633. A. J. Stewart, St. John, New Brunswick, "Cold Water Soap," 7th October, 1876.

No. 6634. E. Farnsworth, Paunxertawney, Pa., L. S. A., Car Brakes, 9th October, 1876.

No. 655. F. O. Tucker, Hartford, Conn., I. S. A., "Weft-Stop Machines," 9th October, 1876. No. 6636. J. J. Schaires, Saline, Michigan, U. S. A., "Whip Sockets,"

11th October, 1876.

No. 6537. J. W. Boulden, Towship Durham, Ont., 'Harness Pad, 11th October, 1876.

No. 6838. M. Beauregard, Township of Ely, Que. Milk Cooler. 11th October, 1876. No. 6639. T. F. Guy, Port Dover, Ont., "Prepared Pampkin Meal," 11th

October, 1876. No. 6640. P. C. Ste Marie, Montreal, Que., "Travelling Spittoon," 11th

October, 1876. No. 6641. L. B. McDonald, Wytheville, Va., U. S. A., "Grinding Mill," 11th October, 1876.

No. 6612. G. W. Laray chine," 11th October, 1876. G. W. Laraway, Port Byron, N. Y., U. S. A., "Barrel Ma-

No. 6643. Sidney Smith the Elder, Acton. (Assignee of W. Sephenson of same place), "Plows," 11th October, 1876.

No. 6644. A. Fleck, Ottawa, Ont., " Polygonal Lathe," 11th Octo-

ber, 1876. No. 6645. J. McPhail, Mitchell, Ont., "Elastic Gearing," 11th Octo-

ber, 1876. No. 6646. J. M. Lamb South-Hampstead, Eng. "Self-securing Skate,"

11th October, 1876. No. 6647. A. E. Ames, Montreal Que. ber, 1876. Can Openers, 11th Octo-

No. 6642. P. W. Peckham, New York, U.S. A., 'Cont Sifters,' 11th October, 1876.

No. 6649 P. W. Peckham, New York, U. S. A., "Ash Sifter," 11th Octo-

ber, 1876. No. 6650. Peter W. Peckham, New York, U. S. A., "Combined Coal Scuttle and Sifter," 11th October, 1876.

No. 6651. Roswell S Judson & Frank H, Van Houten, Mattenwan, N. Y., U. S. A., 'Machines for Turning Bars,' 11th October, 1876.

No. 6622. Callender J. Calvert, Philadelphia, Pa., U. S. A., "Thill Couplings," 11th October, 1876.

No. 6633. Callender J. Calvert. Philadelphia, Pa., U. S. A., Cow Milkers," 11th October, 1876.

No. 6634. Henry M. Pierce, Detroit, Mich., U. S. A., "Apparatus for Treating Wood for the Production of Charcoal, Acetic Acid, Wood Spirits and other Pyroligneous Products," 11th October, 1876.

No. 6655. David Ewart, Ottawa, Ont., "Combined Asphalt and Wood Parement or Roadway," 11th October, 1876.

No. 6656. Charles J. Ferguson, Philadelphia, Pa. ,U. S. A., " Door and Shutter Fasteners," 11th October, 1876.

No. 6677. Asa J. Slott and John Fletcher, Philadelphia, Pa., U. S. A., "Turbine Water Wheels," 11th October, 1876.

No. 653. Frederick J. Cleaver, London, Eng., "Soaps, Pomades, Cosmetics and the like," 11th October, 1876.

No. 6650. John W. Lufkin and Richard H. Lufkin, Chelsen, Mass., U.S.A., "Machine for Folding the Edge of Shoe Vamps and other Analogous Parposes," 11th October, 1276.

No. 6600. Herman Funke, New York, U. S. A., Assignee of Joseph W. Gardner. Shelburne, Mass., U. S. A.), "Handle, for Pocket and other Knives," 11th October, 1876.

No. 666). Joseph Van Norman, Tilsonburg, Ont., "Machine for Holding Saw Logson Mill Carriages while being Sawn," 11th October, 1876.

No. 6602. James 12 Bryan, Humboldt, Kansas, U. S. A., Wardrobe Hooks," 11th October, 1876.

No. 6673. Nathan P. Chaney, Potsdam, N. Y., U. S. A., 'Feather Renovators," 18th October, 1876.

No. 6664. Philip P. Josef, Buffalo, N. Y., L. S. A., Machine for Manufacturing Tongued and Grooved Lumber, 19th October, 1850.

No. 665. Ranson C. Luce and George S. Woodruff, Grand Rapids, Mich., 15. S. A. (Assirmos of Pilia), Math. U. S. A., (Assigners of Elijah McCoy, Ioma, Mich.). Steam Cylinder Lubricators," 19th October, 1876.

No. 6624 Benjamin F. Smith and William K. Bowman, Philadelphia, Pa., U. S. A., Hooks for Catching Fish and Game, 19th October, 1876.

No 1967. George Wells, Montreal, Que., Water Engines and Pumps, With throber, 1870.

No 6568 Augustus I. Bricknell London, Eng., and Alexander A. Hall, Nashville, Ten., , S. A., "Improvement on the Manufacture of Cast Metal Bell Pullies," 19th October, 1876.

No. 6629. Joseph W. Bates, Minneapolis, Minn., Joseph W. Bates, Jr., of the same place Rodolphe Borgerstode, Philadelphia, Pa., and Charles O. Borgerstode, of the same place, "Car Couplings, 19th October, 1876.

No. 6670. Newton S.Otis, New York, U.S.A., Letter Files and Binders." 19th October, 1876.

No. 6671. George Thompson, Kingston, Ont., "Life Race" 19th October, 1876.

No. 6572. James Foley Montreal Que. Art of Prepara and Preserving Tanning Solutions. 19th October, 1876. No.6673 Henry Roush Siam, Iowa U S A "Bee Hives " 19th Octo-

ber, 1876. No. 6574. Albert G. Kerr, Chapham, Que., "Churn Dashers," 19th Octo-

No. 6675. Florence A. Beckwith, Berlin, Wis., and Hiram W. Webster, of the same place, (Administrators of Nelson Franklin Beckwith, Omro. Wis., U. S. A.), "Head Blocks for Saw Mill Carriages, 19th October, 1876.

No. 1656. F. Crompton, Chatham, Ont., Adjustable Corset, 19th Octo ber, 1876.

No. 6/77 J. R. Lomas, New-Haven, Con., L. S. A., "Cigarettes," 19th October, 1876.

No. 0578. T. G. Palmer. Shultzville, N. Y., U. S. A., and H. F. Clark, Poughkeepsie, N. Y., "Stamp Chanceller and Post Marking Machine," 19th October, 1876.

No. 679. J. E. Wheeler, Lynn, Mass., U. S. A., and F. W. Coy, Boston, Mass., "Grimping and Folding Machine," 19th October, 1876.

No. 6680. G. Hondy, New York, L. S. A., "Gigar Pouch, 19th October, 1874.

No. GS1. W. H. McElcherau, Hamilton, Ont. Street Lamps Lettering , Attachment, "19th October, 1876.

No. 6522. C. W. Gauthier, Sandwich, Ont., Freezing Pan, 19th October, leit.

No. 683. A. W. Eldridge, Big Rapids, Mich., U.S.A., 'Steam Engine,' 19th October, 1876.

No. 6684. S.S. Jewett, F. H. Root, and J. Jewett, Buffalo, N. Y., U.S.A Assignees of G. S. Stauard, Buffalo, N. Y.), "Base Burning Stoves," 19: (Assigner October, 1876

No. 1985. O. L. G. Noble, Chelsea, Mich., U.S.A., and T. T. Prosser, Chicago, Ill., "Boot and Shoc Pegging Machine," 19th October, 1876.

0656. V. H. Tisdale, Hamilton, Ont., "Churn Power," 12th Octo-Np. (25) ber, 1876.

No. 66:7. C. E. Vaughan, St. John, N. B., "Ladies' and Gentlemen's Boots and Shoes Manufacture," 19th October, 1876.

No. 688. E. D. Westgate and J. G. Davie, Montreal, Que., " Waterproof Prunella," 19th October, 1876.

No. 669. T. M. Clark, Ottawa, Oat., Composition of Matter to be used in the Manufacture of White Bricks, &c., " 19th October, 1876.

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