Business and Lersonal.

The Charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line Advertisements must be received at publication office as early as Thursday morning to appear in next issue.

Telegraph, Telephone, Elec. Light Supplies. See p. 348. Tarred Roofing and Sheathing Felts. A. Wiskeman, Paterson, N. J.

Combined Concentric and Eccentric Universal and Independent Jaw Chucks, The Pratt & Whitney Co., Hart-

No danger. German Corn Remover is harmless, but it always cures. 25 cents. Sold by druggists.

Portable Railway Track and Cars. Contractors, Plant ers, Miners, send for circulars. Francis W. Corey & Co. 5 & 7 Dey St., New York; 59 & 61 Lake St., Chicago.. Ill.

An automatic surface blow-off by circulation without loss of water, trapping sediment to be blown out at pleasure. Simple, inexpensive, effective. Hotchkiss' Mechanical Boiler Cleaner, 84 John St., New York.

Wanted-A Second-hand Diamond Drill, capable of boring to depth of five hundred feet, for use in South America. Address H. H. Stow, Box 1347, Bradford, Pa., with particulars and price. Bullock machine preferred Guaranteed-That Houghton's Compound will not in

jure your boiler or tubes, but will remove scale and prevent its formation. Houghton & Co., 15 Hudson St., N.Y. Look out for counterfeits. There are many imitations and but one genuine German Corn Remover. 25 cents.

Punching Presses & Shears for Metal-workers, Power Drill Presses, \$25 upward. Power & Foot Lathes. Lo Prices. Peerless Punch & Shear Co., 115 S. Liberty St., N.Y. Gold, Silver, and Nickel Plater wants Situation. Ad-

dress Plater, Oakville, Conn.

Books on Practical Science. Catalogues free. Pocket Book of Alphabets, 20 cts. Workshop Receipts; a reliable handbook for manufacturers. \$2, mail free. E. & F. N. Spon. 446 Broome St., N. Y.

Essay on Inventions.—What qualities will make them profitable, and how to incorporate these qualities in inventions. 25 cts. postpaid. Address N. Davenport, Valparaiso, Ind.

Improved Skinner Portable Engines. Erie, Pa.

"Rival" Steam Pumps for Hot or Cold Water; \$32 and upward. The John H. McGowan Co., Cincinnati, O.

The Eureka Mower cuts a six foot swath easier than a side cut mower cuts four feet, and leaves the cut grass standing light and loose, curing in half the time. Send for circular. Eureka Mower Company, Towanda, Pa.

The Newell Universal Mill Co., Office 34 Cortlandt St. New York, are manufacturers of the Newell Universal Grinder for crushing ores and grinding phosphates, bone, plaster, dyewoods, and all gummy and sticky substances Circulars and prices forwarded upon request.

Pure Oak Leather Belting. C. W. Arny & Son, Manufacturers, Philadelphia. Correspondence solicited. Presses & Dies. Ferracute Mach, Co., Bridgeton, N. J.

Wood-Working Machinery of Improved Design and Workmanship. Cordesman, Egan & Co., Cincinnati, O.

The "1880" Lace Cutter by mail for 50 cts.: discount to the trade. Sterling Elliott, 262 Dover St., Boston, Mass. Experts in Patent Causes and Mechanical Counsel. Park Benjamin & Bro., 50 Astor House, New York.

Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia. Pa.

Malleable and Gray Iron Castings, all descriptions, by Erie Malleable Iron Company, limited, Erie, Pa

National Steel Tube Cleaner for boiler tubes. Adjustable, durable. Chalmers-Spence Co., 10 Cortlandt St., N. V. Corrugated Wrought Iron for Tires on Traction Engines, etc. Sole mfrs., H. Lloyd, Son & Co., Pittsb'g, Pa. Best Oak Tanned Leather Belting. Wm. F. Forepaugh, Jr., & Bros., 581 Jefferson St., Philadelphia, Pa.

Stave, Barrel, Keg, and Hogshead Machinery a spe cialty, by E. & B. Holmes, Buffelo, N. Y.

Rollstone Mac. Co.'s Wood Working Mach'y ad. p. 301. Wright's Patent Steam Engine, with automatic cut of. The best engine made. For prices, address William Wright, Manufacturer, Newburgh, N. Y.

For Light Machinists'Tools, etc., see Reed's adv., p. 301. Nickel Plating. -Sole manufacturers cast nickel anodes, pure nickel salts, importers Vienna lime, crocus etc. Condit, Hanson & Van Winkle, Newark, N. J., and 92 and 94 Liberty St., New York.

Presses, Dies, Tools for working Sheet Metals, Fruit and other Can Yools. E. W. Bliss, Brooklyn, N. Y. Clark Rubber Wheels adv. See page 316.

For Pat. Safety Elevators, Hoisting Engines, Friction C'utch Pulleys, Cut-off Coupling, see Frisbie'sad, p. 316. Safety Boilers. See Harrison Boiler Works adv., p. 316. The Medart Pat. Wrought Rim Pulley. See adv., p. 317. Mineral Lands Prospected, Artesian Wells Bored, by

For Thrashing Machines, Engines, and Horse Powers, see illus. adv. of G. Westinghouse & Co., page 317.

Cope & Maxwell M'f'g Co.'s Pump adv., page 332. The I. B. Davis Patent Feed Pump. See adv., p. 332.

Moulding Machines for Foundry Use, 33 per cent. saved in labor. See adv of Reynolds & Co., page 334.

Machine Knives for Wood-working Machinery, Book Binders, and Paper Mills. Also manufacturers of Soloman's Parallel Vise, Taylor. Stiles & Co., Riegelsville, N.J. Skinner's Chuck. Universal, and Eccentric. See p. 333.

The American Electric Co., Proprts Mfrs of Thompson Houston System of Electric Lighting the Arc Type.

See Bentel, Margedant & Co.'s adv., page 349 For the best Diamond Drill Machines, address M. C.

Bullock, 80 to 88 Market St., Chicago, Ill. Blake "Lion and Eagle" Imp'd Crusher, See p.350. Gardiner's Pat. Belt Clamp. See illus. adv., p. 349.

Clark & Heald Machine Co. See adv., p. 350.

Machine Diamonds, J. Dickinson, 64 Nassau St., N. Y. 50.000 Sawyers wanted. Your full address for Emerson's Hand Book of Saws (free). Over 100 illustrations and pages of valuable information. How to straighten saws, etc. Emerson, Smith & Co., Beaver Falls. Pa.

Tight and Slack Barrel machinery a specialty. John Greenwood & Co., Rochester, N. Y. See illus. adv. p.349. Elevators, Freight and Passenger, Shafting, Pulleys and Hangers. L. S. Graves & Son, Rochester, N. Y.

For the manufacture of metallic shells, cups, ferrules, planks, and any and all kinds of small press and work in copper, brass, zinc, iron, or tin, address C. J. Godfrey & Son, Union City, Conn. The manufacture of small wares, notions, and novelties in the above line, a specialty. See advertisement on page 348.

Gear Wheels for Models (list free); Experimental Work, etc. D. Gilbert & Son, 212 Chester St., Phila., Pa. Gould & Eberhardt's Machinists' Tools. See adv., p. 350.

For best Duplex Injector, see Jenks' adv., p. 349.

Catechism of the Locomotive, 625 pages, 250 engravings. The most accurate, complete, and easily under-stood book on the Locomotive. Price \$2.50. Send for a catalogue of railroad books. The Railroad Gazette, 73 Broadway, New York.

C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 349.

For best low price Planer and Matcher, and latest improved Sash, Door, and Blind Macbinery, Send for catalogue to Rowley & Hermance, Williamsport, Pa.

Eclipse Fan Blower and Exhauster. See adv., p. 348. The Sweetland Chuck. See illus. adv., p. 349.

4 to 40 H. P. Steam Engines. See adv. p. 349.

Steam Hammers, Improved Hydraulic Jacks, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York The only economical and practical Gas Engine in the market is the new "Otto" Silent, built by Schleicher. Schumm & Co., Philadelphia, Pa. Send for circular.

Ore Breaker, Crusher, and Pulverizer. Smaller sizes run by horse power. See p.349. Totten & Co., Pittsburg. Use Vacuum Oil Co.'s Lubricating Oil, Rochester, N.Y.

Green River Drilling Machines. See ad. p. 333. For Heavy Punches, etc., see illustrated advertise nent of Hilles & Jones, on page 350.

Steam Engines; Eclipse Safety Sectional Boiler. Lam pertville Iron Works, Lambertville, N. J. See ad. p. 349



HINTS TO CORRESPONDENTS

No attention will be paid to communications unless accompanied with the full name and address of the writer.

Names and addresses of correspondents will not be given to inquirers.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the number of the question.

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest, should remit from \$1 to \$5, according to the subject. as we cannot be expected to spend time and labor to obtain such information without remuneration

Any numbers of the Scientific American Supple-MENT referred to in these columns may be had at this office. Price 10 cents each.

- (1) W. S. P. writes: I wish to print names on thin leather for the back of books. What is the best process to get it in gilt letters that will not rub off? I never sawanything of the kind done, and find that to simply print the name in type and then bronze them will not hold. A. Thoroughly beat the white of an egg, rub it thin over the place to be lettered. put on the gold leaf, and with type heated sufficiently to coagulate the albumen press upon the leaf. Remove the surplus leaf with a tuft of cotton.
- (2) C. & H. ask: Which is the most profitable and best variety of fish to cultivate in an artificial pond of forty acres, and sixteen feet deep in the deepest part? How shall we proceed to stock it? A. Clear the pond of sun fish, eels, cat-fish, pickerel, pike, yellow and white perch—they being enemies to all young fish. For natural food leave the pygmy silver and striped dace and minnows; stock the pond with German carp and fresh water bass.
- (3) W. A. F. asks: Will a 30 horse power engine run with the same number of pounds of steam, and do the work of 10 horse power engine with the same number of pounds of steam, as a 10 horse power engine will? A. The difference will be small; there will be a little more loss in the thirty horse power engine from friction, radiation, and condensation.
- (4) J. H. G. asks how to transfer ordinary printed pictures to a sheet of glass, and to remove the surplus paper especially as in book illustrations, where the back of the picture is covered with printed matter. What preparation should be applied to the picture as transferred to render it transparent, or nearly so? A. Coat the paper thinly with a clear mucilage of gumarabic, spread it out evenly on the glass plate, and let it dry. The paper may then be pared down with the greatest facility by means of a glove maker's knife, a piece of thin flexible steel, 3 inches wide by 5 inches in length. At one end a handle is usually affixed, the other end being ground to a very fine edge. It is used somewhat after the manner of a plane, the plate being pressed down nearly level with the paper, and the edge of the blade presented somewhat obliquely to the stroke so as to cut smoothly. To make the paper translucent saturate it with good castor oil and cover the back with a second glass plate.
- (5) G. C. asks: What will remove hair from a person's face without pain or injury to the appearance of the skin? A. To remove the hair so that it will not grow again it is necessary to destroy the hair bulbs. We know of no chemical or depilatory that will do this effectively and is not hable to injure the skin or prove painful in its application.
- (6) J. A. B. asks at what degree of heat, or what is the lowest degree, at which steam can be

- made. A. Exposed to the atmosphere at sea level water boils at about 212° Fah. As the pressure diminishes the boiling point becomes lower. In a vacuum pure water can be boiled at 45° Fah. 2. To what temperature may water be heated? A. Under adequate pressure water may be heated hot enough to melt lead. Under a pressure of 50 atmospheres water boils at about 500° Fah. 3. Is there any way of sharpening cast plow points? A. Grinding is the only method.
- (7) J. S. B. asks: What is the best explosive agent to use, efficiency and economy combined, in of pitch and the top root prevents pulling out. The stumps are in Florida. A. Dynamite and giant powder when forced into a hole beneath the stump, loosely tamped and exploded, is usually sufficient to remove it completely.
- (8) C. D. R. asks how to remove the sulphur odor of rubber goods. A. Caustic potash, 1/2 oz.; water, 11/2 pints; dissolve and heat to boiling. Put the goods into this for a few minutes, rinse thoroughly and dry.
- (9) W. W. C. writes: I inclose a sample of mica taken from a mine near here in pieces varying in size 6 to 12 inches and sometimes larger. What is its value and to what extent is it used? A. The mica is of very fair quality. It is used extensively for stove doors, lanterns, etc. See "The Uses of Mica," page 326, and answer to W. L. T., Fage 330 (8), current volume.
- (10) N. J. A. asks: 1. What is the best method of preserving fence posts from decay, and is saturation in crude petroleum of any use)? A. See "The Preservation of Wood," SUPPLEMENT, No. 119. The best paint to preserve fence boards!? A. Mix linseed oil thoroughly with dry sifted ocher, and thin with benzine for use, 3. How can fine shingles be made durable and at the same time less liable to ignite from sparks, if not fireproof? A. Water, 1 gallon; chloride of zinc, 1/2 lb.; digest in this the wood for forty-eighthours, drain, and put into a solution of crude tungstate of soda 1 lb., water 1 gallon (hot), for three hours; then dry. 4. The most desirable metallic roof (aside from copper) as regards cheapness and durability? A. Tin plate, with a good coat of asphaltum or similar varnish.
- (11) W. P. H. writes: I have some copper oins which have been cleaned and finished with sweet oil for about two years; they now show signs of corrosion, and to save them I must remove the oil and verdigris. I am told that cyanide of potassium properly applied removes it readily, but that it has to be used very carefully. Will it poison the air we breathe in using it, or must our flesh or skin not come in contact with it? How can it be rinsed off or the coins cleansed after application? Will it do what I want? A. Dip the coins into a hot solution of 1/2 oz. caustic potash in 3 oz. water, to remove the oil; rinse in plenty of clean water, and rub them gently with fine tripoli moistened with solution of 1/4 oz. potassium cyanide in 5 oz. cold water. If the hands are free from open cuts or sores (through which the poison may enter the system), and are not allowed to remain long in contact with the liquid, there is little danger of poisoning. It is not safe to keep such a liquid about the house, however, as a few drops taken internally by mistake or carelessness of handling might prove fatal. Rinse the bright coins in water and dip for a few moments in boiling water; on removal from which they will dry spontaneously.
- (12) J. D. C. writes: In reference to the new system of chemical nomenclature (yet new and disagreeable to many), I beg information on some points which seem to overthrow the propriety of the new style, at least as regards the use of the termination, ".ic." When we say "ferric sulphide," "mercuric cyanide," "argentic oxide," etc., will those terms bear analysis, will they bear application of the searching process peculiar to the magnificent system on which it is sought to engraft them, resolution into constituent principles or elements? For instance, what is the meaning of "ferric sulphide?" The new school will reply "A combination of iron and sulphur." But what is the guarantee that these two principles are all that are in combination. The very term "sulphide" implies and completely expresses, a comp und; and when we hear one say, "It is a sulphide," we immediately inquire, "sulphide" of what? "oxide" of what? The 'ic" does not do more than add a third principle to the already existing "oxide," "sulphide," best, simply indicates a trace of the third principle. "Ferric alumina," is quite appropriate; because it expresses "oxide of aluminum with a trace of iron: but "ferric sulphide" is unfinished, unsatisfactory, because it maybe a sulphide of well defined character. with trace of iron. It will not do to say that "ferric sulphide" means "sulphide of iron;" for that would be foolishly tautological, if stated in full. If we say the "Germanic Confederation," we are not to be understood as meaning that the principle or element composing the "Confederation" are wholly German in character, custom, inclination, etc.; in other words. German, and Germanic, convey different characteristic ideas. A nation may be Germanic without being German. "ferric sulphide" may be a "ferric sulphide of barium," or some such combination, unless my comprehension be wholly at fault. I have never seen nor heard any argument pro or con on this subject, and ask the favor of your views. A. Your comprehension is wholly at fault. Molecules contam at least two atoms, one of which is positive to the other, which is negative. In the case of binary molecules the rule is: Place the name of the positive first, then that of the negative, changing the termination of this into ide. If the positive atom varies in equivalence this fact is indicated by giving it for the higher of two stages the termination ic, and for the lower the termination ous. Thus ferric sulphide means bisulphide of iron (FeS2), while ferrous sulphide means the sulphide, or monosulphide of iron (FeS)—definite compounds. Should a third stage be developed below the ous-compound the prefix hypo is given, as hyposulphurous oxide: or if above the ic-body the prefix per. Ternary molecules are similarly named, except the negative terminations are ate and ite, instead of ide.

- chloride, a binary, but if united by oxygen they form potassium chlorate. Consult Cooke's "The New Chemistry."
- (13) F. G. asks for preparation that will stop rubber hose from leaking. A. The rubber companies sell a cement suitable for this pupose. It is prepared by dissolving gum caoutchouc in naphtha. See article on cements, page 2510, Supplement, No. 158.
- (14) A. C. B. asks: Is there any preparation with which I can bleach pressed botanical specigetting rid of pitch pine stumps? The stumps are full mens(flowers) which have become brown in drying? I have a specimen of "magnolia grandifiora," which is brown, and I wish to bleach it, then color it white and are most effective in this connection. A pound cartridge pink again. A. Try exposing it to the vapor of burning sulphur, under a tight box. It should be moistened before exposing it.
 - (15) L. A. T. asks: Can you recommend any good work on Volumetric analysis? I desire an easy test of that character to determine the amount of calcium sulphate in water. I can use barium chloride to precipitate the sulphate, but on account of its slow deposition, it is very difficult to determine when exactly enough has been added. Can I add anything to the waterwhich by change of color or otherwise will show when enough barium chloride has been used? A. You will find Thorp's "Quantitative Chemical Analysis" a handy book. We know of no good volumetric method of determining calcium sulphate. Evaporate the water to dryness in a capsule over the water bath, redissolve the residue with a little pure hydrochloric acid, add to this solution a slight excess of a filtered aqueous solution of barium chloride, gently warm the mixture, let it stand half an hour, then wash into a weighed filter. Wash the precipitate on the filter, dry it at 212 until it ceases to lose weight, weigh and deduct the weight of the filter, or, what is better, having determined the weight of the ash of such a filter, ignite the filter with the dried precipitate in a platinum crucible, weigh, and deduct weight of ash and crucible.
 - (16) E. M. E. asks how to preserve natural flowers so that they will look natural, either single or in bouquets. I have seen them-it is something new. A. Dissolve by agitation and digestion in a closely stoppered bottle, 34 oz. clear, pale, gum copal, coarsely powdered and mixed with equal weight of broken glass, in 1 pint of pure sulphuric ether (ethylic ether). Dip the flowers in this liquid, remove quickly, expose to the air ten minutes, then dip again, and expose as before. Repeat this dipping and drying four or five times. Most flowers thus treated will remain unaltered for some time if not handled.
 - (17) D. D. asks: 1. What would be a good recipe for red ink to use with a rubber faced stamp? A. Pour over two ounces of fine aniline red or violet about half a pint of boiling water, stir and shake together, then let stand to cool and settle, and pour off the fiquid portion. A sufficient quantity of this stirred up with pure concentrated glycerine makes a good stamp ink, 2. Give also a formula for black ink for the same use. A. Use good soluble nigrosine as directed above, or triturate the powdered dye with the boiling water in a large mortar with the water until a smooth paste is obtained. 3. Would gum arabic in the ink be likely to injure such a stamp? A. Gum should not be used in this connection.
 - (18) U. D. M. asks how is the silica prepared, how is it mixed, and with what to give it the consistency and quality of paint? What mixtures give it the different shades, what is the manner of applying it. and for what is it adapted? A. The name is usually applied to paints wherein a sirupy aqueous solution of waterglass or silicate of soda is employed as the vehicle. Waterglass is prepared by fusing together in a crucible at a bright red heat pure white silicious sand or powdered quartz and carbonate of soda (three of quartz or sand to about five of anhydrous carbonate of soda). It dissolves in boiling water to form a sirupy liquid. Almost any of the ordinary mineral pigmentszinc oxide, white lead, barytes, ochers, chalk, etc.may be mixed with it to form a paint. It may be used advantageously on common inside woodwork and walls which it is desired to render fireproof. Such paints when they become dry are quite hard, but not water-
 - (19) G. A. W. asks: How much higher is one of our oceans than the other? A. The latest surveys discover no difference of mean level of the two oceans. The tides on the Gulf side are very much higher than on the Pacific side.
 - (20) C. L. P. writes: 1. In Supplement, No. 83, your correspondent, "D," in giving instructions for making rubber stamps, says: "Vulcanized rubber is used." Can you inform me where it can be purchased-of what company? A. The rubber referred to is gum rubber mixed intimately with about 6 per cent of sulphur and rolled out into sheets. It may be obtained from almost any large rubber manufacturing establishment. See our advertising columns. 2. He also says: "Both together (mould and rubber) are placed in a screw press, and heat sufficient to thoroughly soften the rubber is applied." Can you say how this heat is applied? A. Byplacing the mould and rubber in an oven or steam chamber heated to the proper temperature, about 320° Fah.
- (21) H. W. asks: 1. What will prevent new made fiannel underwear from shrinking? A. Good flannel will not shrink much if properly washed. Very little soap should be used, the water should be barely hot, and all the waters used should have about the same temperature. The goods should be wrung as dry as possible and well shaken out before hanging up to dry. We know of nothing that can be put into the goods to prevent shrinking. 2. How can cotton or linen cloth or cord or twine be treated to make it rotproof or proof against rot? A. The deterioration of the fibers may be in a measure retarded by saturating them with a hot aqueous solution of soap, and after wringing out digesting them in a strong solution of alum, then rinsing out and drying. In regard to your other queries you had better consult some reputable Potassium and chlorine united directly form potassium physician.

(22) P. W. M. asks how to prepare selfraising flour. A. Reduce separately, by grinding, to impalpable powders, 1 lb. bicarbonate of soda, 21/8 lb. cream of tartar, 11/4 lb. salt. These should be intimately mixed together and then with 100 lb. fine flour All of the substances employed should be thoroughly

(23) J. W. asks: Is there any preparation or cement, or any way that thin sheet lead can be fastened to cast iron, so that it will adhere firmly and resist the action of the weather, that is, will not be loosened by ordinary use and exposure? A. The new sulphur sulphide composition, called Spence metal, is said to anwer very well for this purpose. In a capacious iron vessel with a loose cover melt by heat, 2 lb. sulphur. Heatto bright redness in a sand crucible 3 lb. of coarsely powdered sulphide of iron (FeS2). Remove the crucible and melted sulphurout of doors, quickly, but cautiously, transfer the contents of the former to the latter, cover and smother the fiames by covering the pot with moist earth or sand. When cold remelt the contents of the pot at a gentle heat, and having packed the base of the joint, lead outside, with oakum, pour in the melted com-

(24) E. A. R. asks for a formula for making the liquid for a barometer or storm glass. A. Dissolve 1 oz. each of potassium nitrate and ammonium chloride in 5 oz. of hot water and let it cool. dissolve in 3 oz. of spirit of wine, 3/3 oz. of good camphor. Filter the solutions, and gradually pour the solution of salts into the camphor solution with constant stirring until a slight permanent precipitate is produced. Pour this liquid into the tube and draw out the latter so that only a pin hole remains open.

(25) E. J. C. asks: What can be used in paste for wall paper to hinder its destruction by the silver moth? A. A small quantity of corrosive sublimate or zinc chloride-70 or 80 grains (dissolved in a little water) to the bucketful is usually employed and proves

(26) S. R. B. writes: I am a painter for a large iron foundry, and have much trouble to get a filler (that will harden quick) for rough castings. Some of our large castings are quite rough, and look bad when painted. Can you tell me of anything that will answer this purpose? A. The following would probably answer your purpose; Put 28 lb. each of common pitch and coal tar asphaltum into an iron pot and heat to boiling over a fire. Continue the boiling eight hours. or until all volatile matters and moisture are driven off. Let it stand all night, and next morning heat to boiling again and add 8 gallons of boiled oil, then gradually 10 lb red lead and 10 lb. litharge, and continue the boiling three hours longer or until a small sample of it when cooked on a glass plate will roll up very hard between the fingers. Then remove the pot out of doors (away from fire), let it cool down somewhat, and add 20 gallons of turpentine. This black will dry in less than half an hour if it has been properly boiled.

(27) J. R. asks: How can I render paper pulp or papier mache non-porous, impervious to water, and to the action of potash? Can I treat ordinary pressed paper to accomplish the above results? I want to turn out a sheet of paper with a glazed, marblized surface, about the thickness of an ordinary business card, rolled from the pulp, or of pressed sheets, that will be unbarmed by weak potash in solution, somewhat stiff and tenacious, but not brittle. Can I do it ? A. If not too expensive you might use a solution of gutta perchain purified benzole as a sizing. We can think of nothing cheaper that will fully answer your re-

(28) R. J. B. asks for a good mixture for covering steam boilers and steam pipes. I happen to have some finely ground soapstone, with a little plumbago and mica in it. Is there anything with which it could be mixed so as to use it for the above purpose? A. Mix the powdered stone into a paste with an equal weight of plaster of Paris and the proper quantity of water, and cast in flat bricks or semi-cylindrical well oiled moulds, to fit the pipes, etc.

(29) J. A. S. asks: What chemicals are used in the Bahcock fire extinguisher, and what are the directions for using the extinguisher? A. Bicarbonate of soda, water, and sulphuric acid. The soda is dissolved in water, the acid being contained in a leaden cnp or bottle so arranged at the top that, when the handle at the top is pulled up the acid vessel is inverted and the contents thrown into the solution of bicarbonate of soda, 1 pint of strong acid will completely decompose nearly 31/4 lb. of bicarbonate of soda, resulting in the formation of sulphate of soda and car-

(30) J. C. K. writes: I am making brands out of pure copper, and very often have trouble in casting, as it does not run well and leave holes in the edges of the letters of the brands. Can you tell me how to prevent this? Can I mix anything with the copper, that it will make as good a brand as pure copper? so, please name it. A. The addition of a small quantity of zinc and about one-tenth of one per cent of phosphorus will sharpen the casting and in a great measure prevent the formation of blow holes.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

M. G. M.—The rock is hornblendic. It contains much sulphide of iron, some copper and zinc, but no appreciable quantity of free gold. The sulphurets may be richly auriferous, but an assay would be required to settle this point -H. L. E.-Quartz rock containing crystallized sulphide of iron-pyrites-no value.-J. L. R.-The fine brassy piece is chiefly iron sulphide-pyrites; the other is manganiferous iron oxide and augite.—J. E. C.—It is a good ferruginous clay—almost too "fat" for brickmaking alone, but good for pottery of some varieties.

COMMUNICATIONS RECEIVED.

Is Steam Explosive? By S. G. On Tornadoes. By B. W. D. On Gravitation and Motion. By W. R B. [OFFICIAL.]

INDEX OF INVENTIONS

Letters Patent of the United States were Granted in the Week Ending

May 3, 1881,

AND EACH BEARING THAT DATE.

['Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for one dollar. In ordering please state the number and date of the patent desired and remit to Munn & Co., 37 Park Row, New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

		Grain, method of and apparatus for steeping, T.	940.00*
٠	Adjustable chair, folding, A. G. Fuller 240,991	A. & W. T. Jebb	240,907
i	Animal shears, J. J. Bogard	holz	240,960
٠	Bale tie buckle, cotton, G. T. Pittman 240,842	Hame strap attachment and buckle, combined.	1
٠	Baling press, P. K. Dederick240,894, 240,973	W. B. Hayden .:	
. '	Baling press, W. D. Leavitt 240,912	Hammer. power. C. M. Brown	
,	Band tightener, J. L. Sheppard	Handle, C. E. Waldeck	
:	Barrel cover, S. W. Sheldon	Harmonica, T. Meinhold.	
	Bed, F. Roehnert	Harness pad attachment, G. Theobald	240,931
	Bed, cot, C. Glenn	Harpoon, bomb, E. Pierce.	
	Bed, cot, H. W. Ladd 241,028	Harrow, disk, Galt & Tracy	
1	Bed, spring, F. B. Mix	Harrowteeth, machine for making, J. Morgan Harvester header. D. C. Matteson	241,041
	Belt stretcher, graduated, L. Walden	Hasp lock, J. G. Krichbaum	
	Bicycle, J. Harrington 240,905	Hat felting, process of and apparatus for, J.	
!	Bobbins, machine for making metal, E. Wilder 240,871	Wharton	
	Boiler furnace, P. L. Weimer 240,869	Heel finishing machine, J. G. Ross	240,929
	Boiler tube ferrule, G. W. Duvall 240,818	Hemp, flax, etc., machine for hackling or dress- lng, T. Tebow	941 001
3	Books, binding, H. D. Baumfalk	Hides, machine for dressing, C. Schultz	
	Boot and shoe, R. W. Cone	Hinge and stay, trunk, C. D. Sigsbee	
	Boot and shoe heel burnisher, Z. Beaudry 240,947	Hog trap, A. St. Mary	
	Boot and shoe heel stiffeners, machine for shap-	Holdback attachment for harness, A. P. Folsom.	
' '	ing. L. Coté	Horse detacher, J. N. Smith	
l	Boot and shoe heels, machine for trimming the	Horseshoe blank bar, J. N. Clarke Hose nozzle, Martin & Paxson	
•	edges of, A. W. Towne	T I TO MY ITT Al-	
	Bottle stopper and fastener therefor, H. M.	Indigo, manufacture of artificial, A, Baeyer	
l	Sweeney	Indigo, manufacture of artificial, Baeyer & Em-	
	Bottles, tool for finishing and forming threads on	merling	
	the tops of glass. Reiss & Gerber 240,927	Insect trap, T. H. Dibble	
1	Bracelet, L. P. & P. Jeanne	Jewelry, enameling, C. F. Aliesky	
)	Bracelet, M. Pollak	Knife and fork, combined, A. W. Cox (r)	9,687
	Bracelet and similar articles of jewelry, C. E.	Knob attachment, E. L. Phipps	
	Mason	Ladder, folding, W. H. Rushforth	
	Brass, forming articles of, J. Spruce	Ladder, step, J. Moomy	
	Broiler, D. Lumbert	Lamp, electric, L. G. Woolley	
ļ	Buckle, harness, C. A. Foote 240,822	Lamps, construction of, F. Siemens	
l	Burglar alarm, R. Muench	Lantern, signal, J. G. Hope	
	Burglar alarm, W. H. Reiff 240,926	Lantern, submarine, L. Fowler	240,823
•	Burglar alarm, electric, S. S. Applegate 240,939	Lard, apparatus for transporting, V. W. Macfar- lane	240.831
	Butter tub, L. D. Goodwin	Last, E. F. Jones	
	Butter worker, J. McAnespey	Lathe arbor and polishing coil, J. A. Kimball	
,	Button, sleeve, G. E. Adams	Lathe, bobbin turning, J. B. Fellows	
	Calendar, J. R. Swain 241,088	Lead and crayon holder, H. Harris	
	Cane, spittoon, M. L. Baxter	Lead pipe machine for making curved, R. Layng Leather dressing machine, W. Goodman	
	Car brake, Sinn & Studer	Lemon squeezer, J.C. Steber	
	Car coupling, J. C. Moffitt	Letter tie, J. N. Price	241,064
	Car coupling tool, A. K. McKee 241,047	Lightning arrester, J. L. Finn	
	Car, dumping, D. E. Small	Lime, burning, F. B. Livingston	
	Car moving lever, L. Heller	Liquid transportation crate, A. A. Bennett Loom, Smith & Skinner (r).	
	Car, sleeping, G. Leve (r). 9,688 Car wheel, J. Rigby. 241,069	Loom picker stick and picker, J. Horsfali	
	Card, etc., celluloid playing, Hart & Bacon 241,004	Looms, securing pickers to the picker sticks of,	
	Cardingengine for making mottled yarn, W. Fer-	E. H. Doe	
	guson	•	241.096
	Carding machines, cylinder or roller for, H. L. Moulton	Manure spreader, J. S. Kemp	
		Wash machine, A. Mattingly	
	Carriage, child's, VV. X. Stevens		241,045
	Carriage, child's, W. X. Stevens	Mast, self-adjusting ship, W. Lyman	241,045 241,037
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,809	Match safe, A. Mead	241,045 241,037 240,918
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown	Match safe, A. Mead	241,045 241,037 240,918 241,014
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,829 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallicjoint for wooden and similar structures, W. B. White.	241,045 241,037 240,918 241,014 241,083
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 240,819 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus	241,045 241,037 240,918 241,014 241,083
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,809 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chein, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus	241,045 241,037 240,918 241,014 241,083 240,938
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,844 240,845 240,845
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,662 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J.	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,861 241,033
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,962 Cister mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of, J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,861 241,033 240,916
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,908	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,861 240,861
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,962 Cister mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908	Match safe, A. Mead	241,045 241,037 240,938 241,014 241,083 240,938 240,938 240,844 240,845 240,861 241,033 240,916 240,916
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058 Cher mill and press, C. Kieser 241,052 Cister mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,807 Cock and sewer gas cut-off, compound water, W. 240,962 Coffee, peanuts, etc., machine for roasting, W. E.	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk setting apparatus, M. O. Stoddard. Milk simming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois.	241,045 241,037 240,918 240,918 240,938 240,938 240,938 240,844 240,845 241,033 240,916 240,964 240,864 240,978
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9.689 Churn, E. J. Olson 241,082 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,807 Cock and sewer gas cut-off, compound water, W. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,861 240,916 240,964 240,964
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9.689 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,976	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,845 240,845 240,846 241,033 240,916 240,864 240,978 240,965
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058 Cher mill and press, C. Kieser 240,962 Cister mill and press, C. Kieser 240,908 Clothes rack, G. Beneke 240,908 Clothes rack, G. Beneke 240,908 Coffee, peanuts, etc., machine for roasting, W. E. Vernon Vernon 240,967 Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,845 240,845 240,861 240,861 240,861 240,965 240,965 240,964
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9.689 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,976	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell Mouldings, making ornamental picture, G. F. Stratton Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman Muslcal instruments, octave coupler for, G. O. Stearns. Nut, serew, W. Courtenay.	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,845 240,845 240,861 240,861 240,861 240,965 240,965 240,964
	Cartriage shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,962 Cister mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,907 Cock and sewer gas cut-off, compound water, W. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,967 Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,987 Corsets, etc, stiffener for, Warner & Tallman 241,052 Cotton and hull separating machines, cylinder	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,861 240,961 240,964 240,978 240,965 240,940 240,940 240,982
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corfee pot, J. Dowling 240,867 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,105 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden.	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,845 240,845 240,845 240,961 241,033 240,916 240,964 240,965 240,965 240,965 240,940 240,982 240,936
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 96,89 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,967 Cornice, extension window, J. Moore 240,867 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,100 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, F. Bateman 240,945	Match safe, A. Mead	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,845 240,845 240,845 240,961 241,033 240,916 240,964 240,965 240,965 240,965 240,940 240,982 240,936
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corfee pot, J. Dowling 240,867 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,105 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins.	241,037 241,037 240,918 241,033 240,940 240,940 240,940 240,940 240,940 240,940 240,936 240,940 240,936 240,93
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,867 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corrice, extension window, J. Moore 240,867 Corrice, extension window, J. Moore 240,867 Correct, ste., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,887	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and drying the air blast exiss. Oil, apparatus for cooling and drying the air blast	241,037 241,037 240,918 241,033 240,940 240,940 240,940 240,940 240,940 240,940 240,936 240,940 240,936 240,93
	Cartriage shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,055 Centrifugal machine, T. H. Miller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837 Corsets, etc., stiffene for, Warner & Tallman 241,102 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, F. Bateman 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,837 Door spring, Z. Cobb 240,831	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell Mouldings, making ornamental picture, G. F. Stratton Motive power, apparatus for the generation of, J. S. Du Bois Muffled furnaces, device for introducing pans into, G. P. Chapman Musleal instruments, octave coupler for, G. O. Stearns Nut, screw, W. Courtenay Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War-	241,045 241,037 240,918 241,014 241,083 240,938 240,844 240,845 240,845 240,940 240,965 240,965 240,982 240,936 240,936
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,659 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,908 Clothes rack, G. Beneke 240,908 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,967 Corffee pot, J. Dowling 240,967 Cornice, extension window, J. Moore 240,837 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney 240,811 Door spring, Z. Cobb 240,811 Door spring, L. M. Devore 240,811	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell Mouldings, making ornamental picture, G. F. Stratton Motive power, apparatus for the generation of, J. S. Du Bois Muffled furnaces, device for introducing pans into, G. P. Chapman Musical instruments, octave coupler for, G. O. Stearns Nut, serew, W. Courtenay Oil, apparatus for and process of cooling and re- fining, W. G. Warden Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins Oil, apparatus for cooling and refining, W. G. War- den	241,037 241,037 240,938 240,938 240,944 240,945 240,965 240,940 240,982 240,936 240,936 240,936 240,936 240,936 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 241,035 Celluloid, decorating, Hart & Bacon 241,035 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, cylinder for seed, W. Deering 240,845 Cultivator, P. Seitz 240,817 Door spring, Z. Cobb 240,811 Door spring, L. M. Devore 240,815 Door spring, J. Jarvis 240,828	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, loth faced, J. Maxwell Mouldings, making ornamental picture, G. F. Stratton Motive power, apparatus for the generation of, J. S. Du Bois Muffled furnaces, device for introducing pans into, G. P. Chapman Musleal instruments, octave coupler for, G. O. Stearns Nut, screw, W. Courtenay Oil, apparatus for cooling and drying the air blast employed in cooling and drying the air blast employed in cooling and refining, G. H. Per- kins Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War- den Oil, apparatus for purifying, A. Koellner Oil apparatus for purifying, A. Koellner	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,845 241,033 240,916 240,965 240,965 240,965 240,965 240,936 240,938 240,938 240,938 240,938
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,959 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,659 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,908 Clothes rack, G. Beneke 240,908 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,967 Corffee pot, J. Dowling 240,967 Cornice, extension window, J. Moore 240,837 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney 240,811 Door spring, Z. Cobb 240,811 Door spring, L. M. Devore 240,811	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War- den. Oil apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman. Ores, process of and apparatus for desulphurizing	241,037 240,918 241,037 240,918 241,037 240,940 240,940 240,938 240,940 240,940 240,965 240,965 240,936 240,937 240,910 240,906
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,976 Corsets, etc., stiffener for, Warner & Tallman 241,105 Corsets, etc., stiffener for, Warner & Tallman 241,105 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, P. Seitz 240,817 Door spring, Z. Cobb 240,811 Door spring, J. M. Devore 240,837 Door spring, J. M. Devore 240,837 Door spring, S. Jarvis 240,838 Doubling, twisting, and winding machinery, J. Boyd 240,953	Match safe, A. Mead Medical compound, W. H. Holland Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stodard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock.	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,845 240,861 240,861 240,961 240,961 240,965 240,965 240,965 240,965 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,937 240,906 240,906 240,906
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,689 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,867 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corrice, extension window, J. Moore 240,867 Corrice, extension window, J. Moore 240,867 Corroet, etc., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, consective, W. Deering 240,945 Cultivator, P. Seitz 240,818 Door spring, Z. Cobb 240,811 Door spring, L. M. Devore 240,887 Door spring, S. Jarvis 240,888 Door spring, S. Jarvis 240,889 Door spring, D. C. Stover 240,889	Match safe, A. Mead Medical compound, W. H. Holland Medical compound, W. H. Holland Metal box, D. M. Somers Metallic joint for wooden and similar structures, W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese Metallurgical furnace. regenerative, J. Reese Milk setting apparatus, M. O. Stoddard Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell Mouldings, making ornamental picture, G. F. Stratton Motive power, apparatus for the generation of, J. S. Du Bois Muffled furnaces, device for introducing pans into, G. P. Chapman Musical instruments, octave coupler for, G. O. Stearns Nut, screw, W. Courtenay Oil, apparatus for and process of cooling and refining, W. G. Warden Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War- den Oil, apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock Organ coupler, E. B. Carpenter (r)	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,845 241,033 240,916 240,965 240,965 240,965 240,965 240,936 240,938 240,93
	Cartriage shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,967 Coffee pot, J. Dowling 240,967 Cornice, extension window, J. Moore 240,867 Corsets, etc., stiffener for, Warner & Tallman 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,052 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,887 Door spring, Z. Cobb 240,811 Door spring, J. M. Devore 240,815 Door spring, J. M. Devore 240,815 Door spring, J. C. Stover 240,883 Doubling, twisting, and winding machinery, J. Boyd 240,987 Draught equalizer, A. Wheeler 241,055 Draught frame, vehicle, A. & C. E. Wnuck 241,105	Match safe, A. Mead Medical compound, W. H. Holland Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of, J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson.	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,844 240,845 240,965 240,966 240,965 240,965 240,965 240,965 240,965 240,965 240,965 240,965 240,965 240,965 240,965 240,966 241,086 240,966 241,086 240,906 241,086 241,085 240,986
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,035 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,862 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corrice, peanuts, etc., machine for roasting, W. E. Vernon 240,968 Corrice, extension window, J. Moore 240,837 Cornet clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,103 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,837 Door spring, Z. Cobb 240,811 Door spring, J. M. Devore 240,831 Door spring, J. M. Devore 240,831 Door spring, J. C. Stover 240,831 Door spring, D. C. Stover 240,831 Door spring, D. C. Stover 240,833 Draught frame, vehicle, A. & C. E. Wnuck 241,110 Dray, J. J. Carnell 240,813	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman Musleal instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and refining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War- den. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson Paint, slate rooffing, J. L. Fauss.	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,945 240,965 240,965 240,965 240,966 240,966 240,966 240,966 240,968 240,966 241,083 240,966 241,083 240,966 241,083
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837 Corset clasp, A. T. Müller 241,052 Corsets, etc, stiffener for, Warner & Tallman 241,102 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, F. Bateman 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,837 Door spring, Z. Cobb 240,811 Door spring, S. Jarvis 240,823 Door spring, S. Jarvis 240,823 Door spring, S. Jarvis 240,831 Door spring, S. Jarvis 240,831 Door spring, S. Jarvis 240,832 Door spring, S. Jarvis 240,833 Door spring, D. C. Stover 240,833 Doubling, twisting, and winding machinery, J. Boyd 240,957 Draught equalizer, A. Wheeler 240,831 Draught frame, vehicle, A. & C. E. Wnuck 241,105 Draught frame, vehicle, A. & C. E. Wnuck 241,105 Draught frame, vehicle, A. & C. E. Wnuck 240,801 Egg carrier, D. Goodwille 240,803	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk getting apparatus, M. O. Stoddard. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War- den. Oil apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson Paint. slate rooffing, J. L. Fauss. Pantaloon guard, G. W. Watson. Paper lag machine, W. C. Cross.	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,845 240,861 240,961 240,965 240,965 240,965 240,965 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 240,936 241,038 240,936 241,038
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,831 Chain, drive, W. D. Ewart 240,839 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,867 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,867 Corsets, etc., stiffener for, Warner & Tallman 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,105 Corset, stiffener for, Warner & Tallman 241,105 Cotton and hull separating machines, cylinder for seed, W. Deering 240,814 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,837 Door spring, Z. Cobb 240,811 Door spring, J. M. Devore 240,831 Door spring, D. C. Stover 240,863 Door spring, D. C. Stover 240,863 Draught equalizer. A. Wheeler 241,052 Draught frame, vehicle, A. & C. E. Wnuck 241,103 Eagt carrier, D. Goodwillie 240,985 Electric machine, dynamo, H. J. Müller 241,053, 241,054	Match safe, A. Mead Medical compound, W. H. Holland Medical compound, W. H. Holland Metal box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Mik setting apparatus, M. O. Stoddard. Mik skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wessebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson. Paper bag machine, W. C. Cross. Paper cutters, parallel gauge for, J. B. Murray.	241,045 241,037 240,918 241,014 241,083 240,938 240,938 240,941 240,945 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,965 241,065 240,96
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,867 Coffee pot, J. Dowling 240,967 Corset clasp, A. T. Müller 241,052 Corsets, etc., stiffener for, Warner & Tallman 241,105 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 240,817 Door spring, Z. Cobb 240,817 Door spring, J. M. Devore 240,817 Door spring, J. M. Devore 240,817 Door spring, J. M. Devore 240,818 Door spring, S. Jarvis 240,828 Door spring, S. Jarvis 240,838 Doubling, twisting, and winding machinery, J. Boyd 240,811 Draught frame, vehicle, A. & C. E. Wnuck 241,110 Dray, J. J. Carnell 240,828 Egg carrier, D. Goodwille 240,831 Electric machine, dynamo, H. J. Müller 241,053, 241,054 Elevator, C. W. Baldwin 141, Miller 241,053, 240,831	Match safe, A. Mead Medical compound, W. H. Holland Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of, J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman Musleal instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for cooling and refining, W. G. Warden. Oil, apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson Paint, slate rooffing, J. L. Fauss. Paner adome. E. C. W. & G. A. Waters.	241,045 241,037 240,918 241,014 241,083 240,938 240,944 240,945 240,965 240,965 240,965 240,965 240,966 240,966 240,968 240,968 240,972 240,993 240,996 241,108 9,686 241,085 940,990 241,108 9,686 241,085 940,991 240,992
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,055 Centrifugal machine, T. H. Miller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837 Corsets, etc., stiffener for, Warner & Tallman 241,102 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 240,945 Cultivator, P. Seitz 240,945 Door spring, Z. Cobb 240,811 Door spring, S. Jarvis 240,857 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,852 Doubling, twisting, and winding machinery, J. Boyd 240,857 Draught equalizer A. Wheeler 240,853 Eleyator G. W. Baldwin 240,858 Elevator G. W. Baldwin 240,858 Elevator gate automatic, G. Woods 241,111	Match safe, A. Mead Medical compound, W. H. Holland Media box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson. Paper cutters, parallel gauge for, J. B. Murray. Paper dome, E., C. W., & G. A. Waters. Paper cutters, parallel gauge for, J. B. Murray. Paper dome, E., C. W., & G. A. Waters. Paper, photographic. T. C. Roche. Paper, anne, D. H. Whittemore. 240,893,	241,045 241,037 240,918 241,041 241,083 240,938 240,944 240,945 240,964 240,965 240,965 240,966 240,968 240,966 240,968 240,968 241,083 240,966 241,086 240,968 241,0868 241,0868
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	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Miller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837 Corsets, etc., stiffener for, Warner & Tallman 241,102 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,857 Door spring, Z. Cobb 240,811 Door spring, S. Jarvis 240,858 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,852 Doubling, twisting, and winding machinery, J. Boyd 240,857 Draught equalizer A. Wheeler 240,853 Elegarrier, D. Goodwillie 240,858 Elegarrier, D. Goodwillie 240,858 Elevator gate, automatic, G. Woods 241,110 Engraved plates, producing, A. Jones 241,105 Engraved plates, producing, A. Jones 240,975 Fanning mill, E. J. Devens 240,975 Fanning mill, E. J. Devens 240,975	Match safe, A. Mead Medical compound, W. H. Holland Media box, D. M. Somers. Metallicjointfor wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of, J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson. Paper bag machine, W. C. Cross. Paper cutters, parallel gauge for, J. B. Murray. Paper dome, E., C. W., & G. A. Waters. Paper, photographic, T. C. Roche. Parer, apple. D. H. Whittemore	241,045 241,037 240,918 240,918 240,918 240,938 240,938 240,844 240,845 240,845 240,940 240,965 240,965 240,965 240,938 240,93
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,839 Cataplasm or poultice, S. Brown 240,839 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Müller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,819 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,908 Clothes rack, G. Beneke 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,967 Cornice, extension window, J. Moore 240,967 Corsets, etc., stiffener for, Warner & Tallman 241,102 Cotson and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,837 Door spring, Z. Cobb 240,811 Door spring, D. C. Stover 240,811 Door spring, D. C. Stover 240,831 Door spring, D. C. Stover 240,831 Door spring, D. C. Stover 240,833 Elevator C. W. Baldwin 240,936 Elevator C. W. Baldwin 240,936 Elevator C. W. Baldwin 240,936 Elevator gate automatic, G. Woods 241,111 Engraved plates, producing, A. Jones 240,957 Fanstening pin for braids or ribbons, A. Kimball 241,025 Fastening pin for braids or ribbons, A. Kimball 241,025 Fastening pin for braids or ribbons, A. Kimball 241,025	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman. Musical instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and re- fining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for purifying, A. Koellner Oil can for lubricating, H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson. Paper bag machine, W. C. Cross. Paper cutters, parallel gauge for, J. B. Murray. Paper dome, E., C. W., & G. A. Waters. Paper, photographic. T. C. Roche. Paper fountain, A. J. Kletzker. Photochromic pictures or prints, producing. T.	241,045 241,037 240,918 241,014 241,083 240,918 240,938 240,938 240,844 240,845 240,861 240,965 240,965 240,965 240,965 240,937 240,937 240,937 240,906 241,033 240,910 240,906 241,033 240,937 240,906 241,030 240,906 241,030 240,906 241,030 240,906 241,040 240,906 241,040 240,906 241,040 240,906 241,040 240,906 241,040 240,909 241,070 241,07
	Cartridge shells, machine for heading, A.C.Hobbs 240,826 Casting apparatus, stereotype, E. P. Brown 240,859 Cataplasm or poultice, S. Brown 240,859 Celluloid, decorating, Hart & Bacon 241,005 Centrifugal machine, T. H. Miller 240,839, 240,840 Chain, drive, J. M. Dodge 240,817 Chain, drive, W. D. Ewart 240,817 Chain, drive, W. D. Ewart 240,818 Cheese hoop, H. W. Millar (r) 9,639 Churn, E. J. Olson 241,058 Churn cover attachment, M. O. Stoddard 240,862 Cider mill and press, C. Kieser 241,024 Cisterns, device for removing sediment from, J. H. Keller 240,807 Cock and sewer gas cut-off, compound water, W. Cahoon, Jr. 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Vernon 240,962 Coffee, peanuts, etc., machine for roasting, W. E. Coffee pot, J. Dowling 240,976 Cornice, extension window, J. Moore 240,837 Corsets, etc., stiffener for, Warner & Tallman 241,102 Cotton and hull separating machines, cylinder for seed, W. Deering 240,945 Cultivator, P. Seitz 241,074 Dies, device for the manufacture of, G. F. Champney. 240,857 Door spring, Z. Cobb 240,811 Door spring, S. Jarvis 240,858 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,851 Door spring, D. C. Stover 240,852 Doubling, twisting, and winding machinery, J. Boyd 240,857 Draught equalizer A. Wheeler 240,853 Elegarrier, D. Goodwillie 240,858 Elegarrier, D. Goodwillie 240,858 Elevator gate, automatic, G. Woods 241,110 Engraved plates, producing, A. Jones 241,105 Engraved plates, producing, A. Jones 240,975 Fanning mill, E. J. Devens 240,975 Fanning mill, E. J. Devens 240,975	Match safe, A. Mead Medical compound, W. H. Holland Metal box, D. M. Somers. Metallic joint for wooden and similar structures, W. B. White. Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases of. J. Reese. Metallurgical furnace. regenerative, J. Reese. Milk setting apparatus, M. O. Stoddard. Milk skimming device, A. Lewis Mouldings, cloth faced, J. Maxwell. Mouldings, making ornamental picture, G. F. Stratton. Motive power, apparatus for the generation of, J. S. Du Bois. Muffled furnaces, device for introducing pans into, G. P. Chapman Musleal instruments, octave coupler for, G. O. Stearns. Nut, screw, W. Courtenay. Oil, apparatus for and process of cooling and refining, W. G. Warden. Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins. Oil, apparatus for cooling and refining, W. G. War- den. Oil, apparatus for purifying, A. Koellner Oil can for lubricating. H. P. Harshman. Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock. Organ coupler, E. B. Carpenter (r). Package fastener, C. K. Stinson Paint, slate roofing, J. L. Fauss. Pantaloon guard, G. W. Watson. Paper bag machine, W. C. Cross. Paper utters, parallel gauge for, J. B. Murray. Paper dome, E., C. W., & G. A. Waters. Paper, photographic, T. C. Roche. Parer, apple, D. H. Whittemore. Paixis.	241,045 241,037 240,918 241,041 241,083 240,918 240,941 241,084 240,845 240,845 240,946 240,966 240,966 240,966 240,938 240,938 240,940 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 240,938 241,038 240,938 241,038 241,038 241,038 241,038 241,038 241,038 241,038 241,038 241,038 241,041 240,906 241,085 241,070 241,107 240,909 241,070 241,107 240,909

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!	Filtering sugar liquor, H. E. Niese	241,000	Pocket for wearing apparel, G. D. Paul Printing presses, registering apparatus for
1	Flour bolt, J. M. Case Food, process of and apparatus for preparing, W. S. Fickett	!	J Carson Pulley, metal, J. D. Milburn Pump, air, C. K. Hamilton
	Fruit and vegetable slicer, E. Manley	241.095	Pump, sand, T. Malcolmson
	Furnace, A. B. Turner	240,949	Railway cross tie, I. W. Fleck
	Gas, apparatus for heating retort benches in the manufacture of, A. W. Wilkinson	1	Henning (r)
	Gas engine, C. J. B. Gaume	241,057	Rein attachment, driving, A. E. Taylor Rein holder, J. H. Baldwin
	Gate, J. Deppeller	240,974	Revolving rake, sulky, H. Hitchcock Rolling axles, machine for, J. H. Whitney Saccharine liquids of low grades, purifyin
	Glass furnace, J. W. Vogel	241,097	Behr et al
	Glass, melting and purifying, J. Reese	240,846	Sash holder, J. H. Lynch
	Browne	240,855	Saw filing machine, gin, Hartsell & Walters. Saw handle, crosscut, B. A. Husbands Saw tooth, E. S. Snyder
	Grain, method of and apparatus for steeping, T. A. & W. T. Jebb		Sawing machine, hand, N. M. Lawrence Scraper, road, T. McCosh
	Grinding grain, etc., roller mill for, J.A. A. Buchholz		Seal press, lead, J. W. Calef
	W. B. Hayden	241,009	Seaming machine for pipe elbows. L. Thierr. Seed and cotton seed oil, preserving cotton, Lanier.
	Hammocks, etc., clasp for adjusting, V. P. Travers Ilandle, C. E. Waldeck	240,366 241,098	Sewing and other small machines, spring , motor for working. T. H. Baldwin
	Harmonica, T. Meinhold	240,931	Sewing, book, C. Chambers, Jr
!	Harrow, disk, Galt & Tracy	240,993	Sewing machine needles, machine for man turing, E. Wilder
	Harvester header. D. C. Matteson	241,041 240,911	G. A. Fairfield
	Hat felting, process of and apparatus for, J. Wharton	240,870	Sheet metal can or box, G. F. Grittin
	Heel finishing machine, J. G. Ross		Shoe stretching device, C. B. Webb
1	Hides, machine for dressing, C. Schultz	241,073 241,078	Skate, roller, W. F. Cornelius
	Holdback attachment for harness, A. P. Folsom.	240,989	Sodium carbonate, apparatus for the man ture of, M. F. J. Gerstenhöfer
	Horse detacher, J. N. Smith	240,967	Solar transit, G. N. Saegmuller
,	Index, E. N. Heath	240,825 240,941	Stamp canceler and register, L. R. Lupton Steam engine, compound, C. B. Turner
	Indigo, manufacture of artificial, Baeyer & Emmerling	240,942	Still, petroleum, H. E. Lutz
	Iron, machine for breaking pig, T. A. Blake Jewelry, enameling, C. F. Aliesky	240,951	Stove cover, H. A. Matthews
	Knife and fork, combined, A. W. Cox (r) Knob attachment, E. L. Phipps	9,687 241,059	Stove pipe elbow machine, G. A. Riese Stump extractor, J. Fuller
	Ladder, folding, W. H. Rushforth Ladder, step, J. Moomy Lamp burner, Mouck & George	241,049	Tan vat and stirrer, combined, C. Flohr Tap for threading sockets, J. McCandless Telegraph and telephone wires, testing st
•	Lamp, electric, L. G. Woolley	241,112	for underground, R. B. Lamb Telegraph, printing, H. Van Roevenbergh.
	Lantern, signal, J. G. Hope Lantern, submarine, L. Fowler	240,823	Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randa
ļ	Lard, apparatus for transporting, V. W. Macfar- lane	240,831	Telephone central office apparatus, T.G. Ells Telephone circuit and gas lighting appa combined police, G. D. Bancroft
	Lathe arbor and polishing coil, J. A. Kimball Lathe, bobbin turning, J. B. Fellows	240,829 240,985	Telephone signaling apparatus, G. L. Ander Telephone toll system and apparatus, See &
!	Lead and crayon holder, H. Harris Lead pipe machine for making curved, R. Layng	241,032	Maken
	Leather dressing machine, W. Goodman Lemon squeezer, J.C. Steber Letter tie, J. N. Price	240,858	Telephonic transmitter, C. A. Randall Terra cotta, etc., manufacture of perfo
	Lightning arrester, J. L. FinnLime, burning, F. B. Livingston	240,901 241.034	Thill coupler, anti-rattler for, Sanborn & For Tilting chair, F. Chichester
ŀ	Liquid transportation crate, A. A. Bennett Loom, Smith & Skinner (r) Loom picker stick and picker, J. Horsfall	9,694	Tobacco packing machine, C. C. Clawson Toe weight, C. Drew Toy, J. H. Bowen
	Looms, securing pickers to the picker sticks of, E. H. Doe.		Toy savings bank, J. Murray
	Magnet for separating iron chips, G. E. Bowers Mail bag fastening, X. Viger	240,95 6 241 ,03 6	Tracheotome, L. J. Lyman
	Manure spreader, J. S. Kemp	241,045	S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and
	Match safe, A. Mead	240,918	
	Metal box, D. M. Somers		Type writer, J. H. Phipps (r)
	W. B. White Metallurgical furnaces, process of and apparatus for regenerating and utilizing the waste gases	. !	Vapor burner, W. H. Dunsha Velocipede. F. Fowler Vise, engraver's, H. Schmidt
	of. J. Reese Metallurgical furnace. regenerative, J. Reese	240,844 240,845	Wagon, road, C. W. Saladee
	Milk setting apparatus, M. O. Stoddard	241,033	Water cooler and filter, P. De Vries Water purifying apparatus, S. E. Collins Water wheel, H. Fake.
	Mouldings, making ornamental picture, G. F. Stratton.	. '	Water wheel, H. Fake Waterproofing cloth, etc J. M. Aulestia Weighing machines. electric automatic reco
	Motive power, apparatus for the generation of, J. S. Du Bois	240,978	instrument for, W. H. Beehler
	Muffled furnaces, device for introducing pans into, G. P. Chapman	240,965	Well pole, W. C. Allison Wood shaping machine, W. Madison Wool from vegetable fiber, manufacturing
	Stearns	240,940	ficial, M. Neumann
	Oil, apparatus for and process of cooling and re- fining, W. G. Warden	240,936	
	Oil, apparatus for cooling and drying the air blast employed in cooling and refining, G. H. Per- kins		DESIGNS. Bracket, H. Jaworski
.	Oil, apparatus for cooling and drying the air blast employed in cooling and refining, W. G. War-	•	Carpet, J. B. Neil
; ;	den Oil. apparatus for purifying, A. Koellner	240,937 240,910	Hair front, J. R. Krause Lacing hook for boots, shoes, etc., M. Bray Spoons, forks, etc., handle for, S. W. Belk
	Oil can for lubricating. H. P. Harshman Ores, process of and apparatus for desulphurizing and preparing, F. W. Wiesebrock	241,108	
	Organ coupler, E. B. Carpenter (r) Package fastener, C. K. Stinson	9,686 241,085	English Patents Issued to Ame From April 29 to May 3, 1881, inclus
١.	Paint. slate roofing, J. L. Fauss	240,899 241,101	Bottle stopper. J. Wills, New York city. Centrifugal machine, S. H. Hepworth. Youl
	Paper dome. E. C. W. & G. A. Waters	240,921	Dynamo-electric machine, C. F. Brush, Cle- Electric light. T. A. Edison. Menlo Park, N.
	Paper, photographic, T. C. Roche	241,070	Hydrocarbons. apparatus for utilizing, J. et al., Brooklyn. N. Y. Oil, lubricating, H. Fink, Washington, D. C.
	Pen fountain, A. J. Kletzker Photochromic pictures or prints, producing, T.	240,909	Pipes, metal welding, H. V. Hartz et al., Cle Reflectors, C. F. Brush, Cleveland, O.
, I	Picture frame, A. Wolf	240.873	Slide valves, W. S. Hughes et al., Long Islan

J Carson	240 905
Pulley, metal, J. D. Milburn	. 241.048
Pump, air, C. K. Hamilton	241,002
Pump, sand, T. Malcolmson	
Punch, J. W. Calef	240,883
Railway signaling apparatus, F. S. Guerber	
Railway switch and signal apparatus, Schnabel	
Henning (r)	9.693
Refrigerating machine, pneumatic, M. J. Klein	. 240,830
Rein attachment, driving, A. E. Taylor	. 241,090
Rein holder, J. H. Baldwin	
Rolling axles, machine for, J. H. Whitney	. 241.106
Saccharine liquids of low grades, purifying, A	١.
Behr et al	
Sash fastener, W. H. King	241,026
Sash holder, J. H. Lynch Sash tightener, L. Schneider	241.035
Saw filing machine, gin, Hartsell & Walters	. 241,006
Saw handle, crosscut, B. A. Husbands	. 241,019
Saw tooth, E. S. Snyder	241,082
Scraper, road, T. McCosh Seal press, lead, J. W. Calef	240,834
Seam, sheet metal, T. H. Dibble	. 240,895
Seaming machine for pipe elbows. L. Thierry	
Seed and cotton seed oil, preserving cotton, F. F.	
Lanier.	
Sewing and other small machines, spring power motor for working. T. H. Baldwin	
Sewing, book, C. Chambers, Jr	
Sewing machine, E. T. Thomas	
Sewing machine needles, machine for manufac	
turing, E. Wilder	
Sewing machine stands, fly wheel and bearing for G. A. Fairfield.	
Shears, J. W. Calef	
Sheet metal can or box, G. F. Griffin	. 241,001
Shoe exhibitor, J. S. Palmer (r)	9,691
Shoe stretching device, C. B. Webb	
Shuttle worker, L. Huntoon	
Skate, roller, W. F. Cornelius	
Snap hook. W. B. Hayden	
Sodium carbonate, apparatus for the manufac	
ture of, M. F. J. Gerstenhöfer	240.995
Spark arrester and consumer, A. Berney	
Spike extractor, R. Hawkey	241,007
Stamp canceler and register, L. R Lupton	240,913
Steam engine, compound, C. B. Turner	
Stone or building block, artificial, J. H. Thorp	
Store service apparatus, H. H. Hayden	241,008
Stove cover, H. A. Matthews	241,04
Stove ornament, H. A. Matthews Stove pipe elbow machine, G. A. Riese.	241.042
Stump extractor, J. Fuller	240,525
Tan vat and stirrer, combined, C. Flohr	
Tap for threading sockets, J. McCandless	
Telegraph and telephone wires, testing statio for underground, R. B. Lamb	941 090
Telegraph, printing, H. Van Roevenbergh	241,023
Telegraph, printing, H. Van Hoevenbergh	241,094
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall	241,094 241,012 241,067
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort	241,094 241,012 241,067 th 240,983
Telegraph, printing. H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu	241,094 241,012 241,067 .h 240,983 s,
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort	241,094 241,012 241,067 th 240,983 s, 240,804
Telegraph, printing, H. Van Hoevenbergh	241,094 241,012 241,067 ch 240,983 s. 240,804 240,878
Telegraph, printing. H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & Me Maken.	241,094 241,012 241,067 ch 240,983 s. 240,804 . 240,878 c- 240,853
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mc Maken. Telephonic receiver, C. A. Randall	241,094 241,012 241,067 th 240,983 s. 240,804 240,878 c- 240,853 241,065
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall Telephonic transmitter, C. A. Randall Terra cotta, etc., manufacture of perforate	241,094 241,012 241,067 241,067 240,983 s. 240,804 240,878 c- 240,853 241,065 241,066
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve.	241,094 241,012 241,067 241,067 240,983 s. 240,878 c- 240,853 241,065 241,066 241,066
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & McMaken Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry.	241,094 241,012 241,067 240,803 s 240,804 240,878 c- 240,853 241,065 241,066 ed 241,068
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve.	241,094 241,012 241,067 240,803 s. 240,878 c- 240,878 241,065 241,066 241,068 240,851 240,888
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry Tilting chair, F. Chichester Tobacco packing machine, C. C. Clawson Toe weight, C. Drew	241,094 241,012 241,067 ch 240,983 s 240,878 c 240,878 c 241,065 241,066 cd 241,068 240,888 240,888 240,968 240,968
Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Titing chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen.	. 241,094 241,012 241,067 241,067 240,803 240,804 240,853 241,065 241,066 241,068 240,853 240,853 240,853 240,853 240,955
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Telegraph, printing, H. Van Hoevenbergh. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Titing chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen.	. 241,094 241,012 241,067 241,067 240,893 8 240,804 240,853 241,065 241,066 240,851 240,851 240,858 240,955 241,055 240,955
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Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tipting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachcotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson	241,094 241,012 241,067 240,983 s 240,804 240,853 241,065 241,066 240,851 240,851 240,988 240,988 240,988 240,988 241,035 241,035 241,036 241,036 241,036
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake	241,094 241,012 241,067 240,963 8. 240,804 240,853 241,065 241,066 241,068 240,851 240,988 240,988 240,988 240,985 240,955 241,036 241,036 241,036
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tipting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachcotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson	241,094 241,012 241,067 240,063 240,878 240,853 241,065 241,066 241,066 241,068 240,851 240,853 240,955 240,955 240,955 240,955 241,055 241,055 241,055 241,055 241,055 241,055 241,056 241,056
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Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall Telephonic transmitter, C. A. Randall Telephonic transmitter, C. A. Randall Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry Tilting chair, F. Chichester Tobacco packing machine, C. C. Clawson Toe weight, C. Drew Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachcotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Saeler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r)	241,094 241,012 241,067 241,067 240,878 240,853 241,065 241,066 241,068 240,851 240,853 240,955 240,955 240,955 241,055 241,055 241,055 241,055 241,055 241,055 241,036 241,036 241,036 241,036 240,954 240,954 240,954
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Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton. Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee.	241,094 241,012 241,067 240,868 s 240,804 240,858 241,065 241,066 241,066 240,851 240,851 240,951 240,952 240,968 240,868 240,868 240,868 240,868 240,868 240,868 240,868 240,868
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry Titting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachcotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and welc ing, J. Sadler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten Water cooler and filter, P. De Vries. Water wheel, H. Fake.	241,094 241,012 241,016 240,878 240,853 241,065 241,066 241,066 241,068 240,851 240,851 240,855 241,055 241,055 241,056 240,951 240,958 240,951 240,958 241,036
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic transmitter, C. A. Randall. Telra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying carsaround curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and welc ing, J. Sadler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, enkraver's, H. Schmidt. Wagon, road, C. W. Saladee Washing machine, C. W. Posten Water cooler and filter, P. De Vries. Water purifying apparatus, S. E. Collins. Water wheel, H. Fake.	241,094 241,012 241,067 240,803 s 240,804 240,853 241,065 241,066 241,068 240,851 240,851 240,951 240,968
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & Mc Maken Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry Titting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachcotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and welc ing, J. Sadler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten Water cooler and filter, P. De Vries. Water wheel, H. Fake.	241,094 241,012 241,067 240,863 s 240,864 240,865 241,066 240,861 240,861 240,865 240,968 240,869 240,869 240,869
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic transmitter, C. A. Randall. Telra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying carsaround curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, enkraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten. Water vheel, H. Fake. Waterproofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well point, A. D. Cook.	241,094 241,012 241,067 240,803 s 240,804 240,853 241,065 241,066 241,068 241,068 240,851 240,851 240,968 240,948
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mr. Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, sanborn & Ferry, Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Troy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Trachootome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Saeler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Veiocipede, F. Fowler Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten. Water vooler and filter, P. De Vries. Water purifying apparatus, S. E. Collins. Water wheel, H. Fake. Waterproofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well point, A. D. Cook. Well pole, W. C. Allison	241,094 241,012 241,067 240,863 s 240,804 240,853 241,065 241,066 241,066 240,851 240,851 240,988 240,989 240,940 240,940
Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton. Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten Water porifying apparatus, S. E. Collins. Water wheel, H. Fake. Waterproofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well poie, W. C. Allison Wood shaping machine, W. Madison.	241,094 241,012 241,067 240,863 240,863 240,865 241,066 241,066 241,066 241,068 240,851 240,855 240,855 240,955 241,055 241,056 241,056 240,968 240,968 240,968 240,969 241,056 240,961 240,961 240,961 240,961 240,961 240,961 240,961 240,969 240,869 240,968
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Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & M. Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry, Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton. Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten Water porifying apparatus, S. E. Collins. Water wheel, H. Fake. Waterproofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well poie, W. C. Allison Wood shaping machine, W. Madison.	241,094 241,012 241,067 240,868 s 240,868 240,853 241,066 241,066 240,851 240,981 240,985 241,056 241,068 240,988 240,988 240,988 240,988 241,036 241,036 241,036 241,036 241,036 241,036 241,036 240,988 240,989 240,839 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,830 240,832 240,832 240,832 240,832
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Telegraph, printing, H. Van Hoevenbergh Telegraph sounder, T. H. Herndon Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft Telephone signaling apparatus, G. L. Anders Telephone signaling apparatus, G. L. Anders Telephone toll system and apparatus, See & M. Maken Telephonic receiver, C. A. Randall Telephonic transmitter, C. A. Randall Telephonic transmitter, C. A. Randall Telephonic receiver, C. A. Randall Telephonic receiver, C. A. Randall Telephonic renamitter, C. A. Randall Telephonic renamitter, C. C. Randall Telephonic fransmitter, C. C. Randall Telephonic receiver, C. A. Randall Telephonic fransmitter, C. C. Clawson Tore solve, Sanborn & Ferry Tilting chair, F. Chichester Tobacco packing machine, C. C. Clawson Toe weight, C. Drew Toy, J. H. Bowen Toy savings bank, J. Murray Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying carsaround curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer Type writer, J. H. Phipps (r) Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler Vise, enkraver's, H. Schmidt Wagon, road, C. W. Saladee Washing machine, C. W. Posten Water purifying apparatus, S. E. Collins Water wheel, H. Fake. Waterproofing cloth, etc J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler Well pole, W. C. Allison Wood shaping machine, W. Madison Wood shaping machine, W. Madison Wood from vegetable fiber, manufacturing art ficial, M. Neumann Yarn felting machine, L. Bourau	241,094 241,019 241,019 241,067 240,803 240,804 240,853 241,065 241,066 241,068 240,851 240,851 240,951 240,968
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Telegraph sounder, T. H. Herndon. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mc Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray. Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten. Water proofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well point, A. D. Cook. Well pole, W. C. Allison Wood shaping machine, W. Madison Wood shaping machine, L. Bourau DESIGNS. Bracket, H. Jaworski. DESIGNS. Bracket, H. Jaworski. 12,2 Carpet, J. B. Neil. Hair front, J. R. Krause.	241,094 241,012 241,067 240,868 s 240,868 240,853 241,066 241,066 240,851 240,981 240,985 240,985 240,985 241,056 241,056 240,988
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Telegraph sounder, T. H. Herndon. Telegraph sounder, T. H. Herndon. Telegraphic relay and repeater C. A. Randall. Telephone central office apparatus, T.G. Ellswort Telephone circuit and gas lighting apparatu combined police, G. D. Bancroft. Telephone signaling apparatus, G. L. Anders. Telephone toll system and apparatus, See & Mc Maken. Telephonic receiver, C. A. Randall. Telephonic receiver, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic transmitter, C. A. Randall. Telephonic receiver, C. A. Randall. Terra cotta, etc., manufacture of perforate blocks of, A. Reeve. Thill coupler, anti-rattler for, Sanborn & Ferry. Tilting chair, F. Chichester. Tobacco packing machine, C. C. Clawson. Toe weight, C. Drew. Toy, J. H. Bowen Toy savings bank, J. Murray. Trace attachment for harness hames, G. M. Stron Tracheotome, L. J. Lyman Tramway for carrying cars around curves, cabl S. R. Mathewson Truck, car, A. westlake Tube sections, machine for preparing and weld ing, J. Sadler Twist drills, manufacturing, T. P. Farmer. Type writer, J. H. Phipps (r). Valve apparatus, C. N. Dutton Vapor burner, W. H. Dunsha Velocipede, F. Fowler. Vise, engraver's, H. Schmidt. Wagon, road, C. W. Saladee. Washing machine, C. W. Posten. Water proofing cloth, etc., J. M. Aulestia Weighing machines, electric automatic recordin instrument for, W. H. Beehler. Well point, A. D. Cook. Well pole, W. C. Allison Wood shaping machine, W. Madison Wood shaping machine, L. Bourau DESIGNS. Bracket, H. Jaworski. DESIGNS. Bracket, H. Jaworski. 12,2 Carpet, J. B. Neil. Hair front, J. R. Krause.	241,094 241,012 241,067 240,863 240,865 241,066 240,865 240,865 240,865 240,965 241,065 240,968 240,969 240,869
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ttle stopper. J. Wills, New York city. namo-electric machine, S. H. Hepworth, Yonkers, N. Y. namo-electric machine, C. F. Brush, Cleveland, O. ectric light, T. A. Edison, Menlo Park, N. J. drocarbons, apparatus for utilizing, J. W. Honchin et al., Brooklyn. N. Y.

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