#### MISCELLANEOUS INVENTIONS.

A type writing machine has been patented by Mr. James W. Cole, of Spearville, Kansas. This invention covers a special construction and combination of parts, embracing many novel features, and making a machine that is operated with facility.

A wear hook for back pad billets has been patented by Mr. Orange A. Dean, of Parkville, Ill. It is intended more especially for use on the billets of the back pads of harnesses where the billets pass through the trace buckles, for preventing rapid wear of the billets, and the invention covers special details of

A side spring vehicle has been patented by Mr. William J. Wayne, of Decatur, Ill. This invention covers an arrangement of cranked rods and leaf springs by which the greatest elasticity of the springs is realized without imposing undue strain on the side bars or body of the vehicle.

An opera glass has been patented by Mr. Carl Rothacker, Jr., of Pforzheim, Germany. It is adapted to be folded into the form of and carried as a watch chain trinket, having a folding or collapsible frame, instead of the usual telescopic double barreled body.

A fruit drier has been patented by Mr. Arthur Thompson, of Warner, N. H. It is provided with revolving shelves and has a suspended cylindrical deflector, whereby ascending hot air is deflected to the curved walls of a case and made to pass up through revolvingtray holders containing trays of fruit.

A design for a tag holder or fastener has been patented by Mr. Walter E. Preble, of New York city. It consists in the representation of both an alphabetical and numerical figure, the figure 8 having a rectangularly shaped upper looped portion, while the crossing is made straight limbed to represent an X.

A knife ring has been patented by Mr. Charles H. Wickersham, of Pottstown, Pa. It has guards to retain it in place on the finger, and is made to close up compactly when not in use, furnishing an implement for the use of clerks and others who have frequent need of a knife for cutting strings on packages.

A combined torch and battle ax has been patented by Mr. Abraham Wolf, of New York city. The battle ax is made of two plates soldered to each other at their front and rear edges, having sockets to receive the staff, the upper one of which is soldered to the torch, the whole being designed for use in torchlight processions.

An extinguisher for lamps has been patented by Mr. William Millen, of New York city. It consists of a plate having clasp plates or tongues and an extinguishing plate hinged thereto, which can be used as well to make the wick more even as to suddenly smother the fiame without any smoke when used as an extinguisher.

A thill coupling has been patented by Mr. Henry W. King, of Canaan, N. Y. It is made with a U chaped leather strap passed through the eye of the thill iron, and secured to the projecting end of the clip yoke by a cap plate and a bolt, and has other novel features, the design being to prevent noise and promote security and convenience.

A churn cover attachment has been patented by Mr. Edmund E. Risien, of San Saba, Texas. It consists of a loose supplementary ventilating lid, designed to be slipped over the handle of the churn above the lid proper, to prevent the milk or cream from splashing out while being churned, and also to freely admit air to the interior of the churn.

A fire and water proof roofing paint has been patented by Messrs. Charles H. Phillips and Wallace M. Taylor, of Alpena, Mich. It consists of tar, hydraulic cement, sulphur, red lead, air slaked lime, mineral paint, salt, potash, plaster of Paris, and borax, in certain specified proportions, and mixed in a prescribed manner.

A baling press has been patented by Mr. John A. Hampton, of Houston, Texas. This invention covers a special construction, arrangement, and com bination of parts, for improving stationary and portable baling presses, more especially designed for baling hay, the machine being easy to handle, cheap and durable, and rapid in its action.

A traction wheel has been patented by Mr. James A. Stout, of Belleville, Ill. Its rimis concave on the outer surface, and has reversely inclined consecutive ribs, disconnected at their ends, and with straight flat faces, combining lightness with strength, and reducing the tendency of the wheel to lift the earth or dirt, while giving increased pulling or tractive ef-

A machine for mincing meat has been patented by Mr. Hubert Dollman, of Birmingham, Warwick County, England. This invention covers a novel construction and arrangement of parts in a machine to which meat may be fed through a hopper, where it is cut into small pieces, then fed forward by a spiral ations furnished. flange and forced through perforations, and again cut before being discharged.

patented by Mr. Frederick Bommarius, of New Orleans, La. It is for expeditiously and efficiently splicing metallic bands used in baling cotton, and for utilizing the scrap or surplus lengths of other baling bands after the bales they are used on have been reduced by compression, for which purpose the invention presents several novel features.

A twenty-four hour time piece has been patented by Mr. Henry C. Fick, of New York city. The first twelve hours of the day are indicated on the dial in the ordinary way, and the last twelve by figures 13 to 24 at the outer or inner side of the circle of the ordinary figures, a third hand being interposed between the two ordinary hands, adapted to be thrown out of gear or in gear with the other hands, with other novel features.

A side bar wagon has been patented by Mr. George D. Selby, of Portsmouth, Ohio. The invention consists in extending the side bars back over the rear axle, and combining with such extended portions a spring or springs, in connection with other

springs, to support the body of the vehicle and equalize the load, making a light vehicle in which springing and sagging of the side bars and couplings are avoided.

A fastening for hand bag and pocket book frames has been patented by Mr. John Mehl, Jr., of Jersey City, N. J. This invention relates to fastenings in which two balls on opposite sides of the frame snap by each other when the frame is closed, and consists in hinging or pivoting to one of the balls a bar adapted to engage the other balls and positively lock the two together, so the frame will not open when dropped, or after having been used for a while.

## 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 asearly as Thursday morning to appear in next issue.

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If an invention has not been patented in the United States for more than one year, it may still he patented in Canada. Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instruction address Munn & Co., Scientific American Patent agency, 361 Broadway, New York.

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Machinery of every kind. See adv., page 438. Shipman Steam Engines.—Small power practical engines burning kerosene. Shipman Engine Co., Boston.



HINTS TO CORRESPONDETS

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our information, and not for publication.

References to former articles or answers should give date of paper and page or number of question.

Inquiries not answers in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and though we endeaver to reply to all, either by letter or in this department, each must take his turn.

Special Iuformation requests on matters of

Special Information requests on matters of personal rather than general interest, and requests for Prompt Answers by Letter, should be accompanied with remittance of \$1 to \$5, according to the subject, as we cannot be expected to perform such service without remuneration.

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Scientific American Supplements referred to may be had at the office. Price 10 cents each.

Minerals sent for examination should be distinctly marked or labeled.

(1) O. Z. writes: I am building an engine 2x3. 1. How much horse power would it give, and revolutions? A. At 350 revolutions per minute, about 11/2 horse power. 2. What size of boat would I have to A. 15 or 16 feet long and 3 feet 4 inches beam. 3. What size of propeller would I want? A. Propeller 16 to 18 inches diameter. 4. Would boiler without tubes be too heavy. 5. What size boiler would I need? A. Boiler should have not less than 30 or 32 feet fire surface. 6. How fast would the boat travel? Engine dimensions 2x3, eccentric seven-sixteenths throw, stroke 3 inches, and a pump to force water into the boiler. A. Probably 8 miles per hour with good model.

(2) A. W. B. writes: You have several times stated in your Scientific American that there is nothing better for truing a grindstone than a piece of gas pipe; now, how is it to be applied to the stoneheld on by main strength, or secured to the frame in such a way that it can be moved no square against the face? A. Lay a flat iron bar across the grindstone frame as close to the stone as Possible without touching. Take a piece of 34 gas pipe 2 or 3 feet long, and hold it at about 45°, with the end resting upon the iron plate. Roll the pipe slowly across and against the face of the stone, holding the pipe firmly to its place, so that the stone will bite upon the end of the pipe. The pipe will wear away, as well as the stone; rolling it will keep the old even

(3) H. T. C. asks how a car gets around a curve, it being farther on the outside rail than it is on the inside, the wheels being fixed on the axles. I claim one of the wheels must slip. A friend claims they do not, and explains it thus: The flanges of the wheels do not run close to the rails, there being about the space of an inch play room, and that the surface of each wheel is beveled, being the largest next to the flange, so that in rounding a curve the trucks naturally crowd to the outside, and the inside wheel runs on that part of it which is the smallest, while the outside wheel runs next to the flange, or the largest part. A. Both are correct. With conical wheels there is no slip when the curve exactly coincides with the difference of circumference due to the coning of the wheels and the difference between the gauges of rail and wheel. In all other cases there is more or less slip.

(4) J. B. asks if a cylinder should or should not be counterbored so that the packing rings' front edges run over so as to preclude the possibility of wearing the bore of cylinder to a shoulder. A. The counterbore should not be carried so far as to allow the rings to lap more than one-quarter of their width, nor less than one-eighth their width. 2. What would be the right depth of counterbore for a 16x24 engine whose packing rings travelto within 2 inches of end of cylinder when connecting rod brasses are in proper condition? A. In your engine, 21/4 to 23/6 inches.

(5) C. R. writes: We have an upright A engine, and use a cut-off in the steam chest, when we wish to cut-off at half or quarter stroke, there is so nuch water formed as to cut all the piston rod packing. Will you tell us how to get rid of this water? A. Not knowing the construction of your engine or its appliances for discharging the water of condensation from steam chest or cylinder, we cannot be expected to give an intelligent answer. The smaller amount of steam passed through the cylinder at the reduced cut-off may of retention of the water of condensation A drip pipe from the bottom of the steam chest and also at the bottom of the cylinder are necessities. The one from the steam chest should be connected with a steam

(6) J. F. M. asks: 1. Has a chairman of a public meeting a right to "second a motion"? A. No. 2. Is there any appliance for receiving an uneven power from a wind engine and emitting it regular and even to the machinery for making flour or other manufactures? If so, by whom made, and where? A. The storage of wind power," which is in reality aregulator or equalizer of power, has been largely discussed, and many appliances proposed, in back numbers of the Scr-ENTIFIC AMERICAN, which we refer you to for details. We know of no special appliance on sale. 3. Is the expression "value received" necessary on a negotiable promissory note? If so, why? A. It is, to avoid a legal technicality as to its legitimaterepresentation of a business transaction.

(7) W. A. P. writes: Mr. Rassam, in his explorations on the Euphrates, is credited with having B found a great number of tablets, giving a history of the creation, the sin of our first parents, and in fact a his-

Catechism of the Locomotive, 625 pages, 250 engrave tory of the world down to the flood. Could you tell me ings. Most accurate, complete, and easily understood if these, as well as the tablets found at Babylon, have been translated into English, and if so, where the work can be procured? A. The British Museum has become the custodian of many of the tablets found in the valley of the Euphrates. The translations are very meager and uncertain. They have been the subject of contradictory discussions in the Oriental societies of Europe. The publications in regard to them are principally the narratives of the explorers, which may be obtained at your libraries and bookseller's.

> (8) G. W. C. asks: How can I make some transparent varnish or enamel that will not crack or breakwhen applied on cloth? I would like something such as on nice finished oil cloth to cover tables. A. The elastic varnishes that are used on cloth are usually made with linseed oil boiled with litharge and rubber dissolved in naphtha, suixed with various colors like paint. These ingredients are mixed and boiled to the consistency of a paste, and applied to the cloth with a scraper. The goods are then dried in an oven. The enameling of cloth is not intelligibly treated of in books. every manufacturer having his special secretin regard to the mixture. A thin varnish for finishing may be made with boiled linseed oil and rubber dissolved in naphtha, spread with a brush.

(9) J. C. W.—Roper's works are good. Presuming that you wish to become a mechanical engineer, we recommend you to become an apprentice in some engineering establishment near by, and devote your spare hours to study and draughting. Acetic acid is not injurious in proper quantities. The acid property of vinegar is mainly due to acetic acid. Vinegar made from cider contains both acetic and malic acids. You may find interesting articles on the manufacture of vinegar in Scientific American Supplement. Nos.

(10) D. S. N. writes: We are heating our office with steam, also running engine for presses raise plenty of steam? A. A boiler without tubes would with steam from the same boiler; have about 7 horse power; boiler, tubular, without steam dome; does not do so well on account of not having enough dry steam. Would there be any advantage in using an upright boiler, and which takes the most fuel to run-an upright or a tubular boiler? A. It is the opinion of most engineers that a well made and properly set horizontal tubular boiler is the most economical of all the forms. The wet steam that you complain of may come from carrying the water too high in the boiler. For the best result, it should be kept at from 2 inches to 4 inches above the tubes in small boilers. You may also gain considerable advantage by arranging your heating pipes so as to turn the exhaust steam into them when running the presses, thereby utilizing the waste steam and adding its value to the boiler for power.

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

C. E. K .- No. 1 is an iron ore, the hydrated ferrice oxide, or limonite. No. 2 is a copper ore with traces of malachite or chrysocolla on the surface. It may carry silver. No. 3 is a clayrock, and does not appear to carry any metal. No. 4 is ephalenite, or zinc blende, consisting of zinc sulp m e. Tt is a valuable ore of zinc. No. 5 appears to be a rock coated with thin, shiny particles of mica, and is probably of no value. No. 6 is galena or lead sulphide, and is likely to carry silver. An assay costing \$5.00 will be necessary in every instance to de termine the presence and amount of the nobler metals contained in the ore.-A. M.-The specimen consists of a gneissitic rock, partially decomposed. Particles of mica that are quite shiny and gold-like in appearance are on one side. Some garnet-like crystals also appear on one of the sides. As a mineral it is worthless, and as a rock it has no economic value.

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December 16, 1884,

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Gas regulator, G. Taylor         30           Gate, E. Cowan         30           Generator         See Steam generator		Refrigerating and apparatus therefor, T. Rose	1	Pendant, B. Dreyfus Range, cooking, I. A Sand band cap, J. S.
Grain drier, H. I. Chase et al.         30           Grain separator, J. B. Martin         30	9.394	Refrigerator, W. D. Grant	309,221	Shoe clasp tongue, J. Spoon or fork handle
Grate attachment, E. Wood	09,445 09,196 {	Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr	309,184	Stove, heating, W. C Tag holder or fasten Vinaigrette, H. F. H.
Grinding mill, O. Hoffmann		Ring. See Knife ring. Lap ring. Rivet, T. J. Wood		, mp.
Handbag and pocketbook frames, fastening for J.  Mehl, Jr	9.397	Roofing, metallic, M. F. Hamsley	309 <b>,</b> 459 309 <b>,</b> 296	TRA Alloy resembling silving Company
handle. Harness, A. Sherwood		Sampling casks, apparatus for, G. D. W. Lennon. Sand drier, G. H. Campbell	309.232 309,195	Calf's foot jelly, H. & Carpets, rugs, and
Harrow tooth. L. J. Stanton	9.235	Sash holder, J. F. Hamilton. Saw bandle, W. H. Hankin, Jr Paw, pruning, H. G. Emens.	309,388	Sons
Harvester, corn, W. L. Hopper	09,462 09,330	Screw cutting die, F. D. Mayo	309.237	G. & J. F. Low Cod-liver oil, Lanman
Heatregulator, H. W. Axford			309,403	Kemp
Heel or counter stiffeners machine for the manufacture of, J. L. Hatch	9,223	Sewing machine bobbin winder, A. V. Abercrombie		Cotton goods, both by twilled, Laconia C Culinary pots, kettles
electric, C. H. Wickersham         30           Hinge, J. H. Lawrence         30	9,393	Sewing machine trimming attachment, E. M. Hewson		Malleable Iron Co Disinfectants and n
Hoisting machine, W. H. Stewart		Sewing machines, tension apparatus for straw hat and other, C. H. Willcox	309,210	Childs Grape vines, Niagara Company
Holder for articles while being heated, C. F. O. Nordin	9,402	Shelving, adjustable and portable, B. F. Roberta. 3 Skate fastening, C. C. De Camp	309,380	Inks, marking and wing Company Knives, forks, and sp
Hoop fastener, N. Newman	9,487   9,444	Skate, roller, G. A. Welander	309,501 309,253	Leather, burnishing of finishing, J. H. D
Hot air furnace, D. M. Russell	9,336	Skates, self-lubricating roll for roller, W. E. Badger	09.373 309,226	Liniment, G. H. Beck Medicinal preparation Medicinal preparation
De Coppet       30         Injector, J. M. Marty       30         Injector, J. H. Rook       30	9,478	Snow plow, J. M. Williams       3         Soldering iron, A. F. Zimmerling       309.280, 3         Spoon, J. W. Calef       3	09,281	C. A. Vogeler Co Medicine for disorder algia, and fever at

In a later of the M. D. France			$\overline{}$
Insulating electric wires, M. D. Fenner	309,450		
Iron. See Sadiron. Soldering iron.  Jetty, movable, R. T. Van Norden	309,264		309,421
Joint. See Railway rail joint.  Journal bearing, J. Graham		Steam boiler, B. F. Mohr  Steam boiler flue cleaner, J. Cocker  Steam brake Taylor & Sutherland	309,377
Journal bearing, J. H. McLean	309,411	Steam brake, Taylor & Sutherland	
Knitting machine, I. W. Lamb	309,471	Steam generator, B. T. Babbitt	
enbergh	309,348	Babbitt	309,283
Ladder bracket, J. R. Bodell	309,435	S. JohnstonSteel, hardening, L. B. Rockwell	
Lamp, electric arc, H. A. Gorn	309.454	Stopper. See Tube stopper. Store service apparatus, M. Clark309,198,	309,199
Lampextinguisher, W. MillenLamp, miner's safety, J. B. Marsaut	309,398 309,309	Store service system, M. Clark309,197, 309,200, Stove drum, B. F. Myers	309,201 309,486
Lanterns, cone securing device for tubular. F. Dietz	809,208	Suspenders, J. A. Stuart	309,321
Lap ring, E. W. McLendon		Tag, S. Herzberg	309,372
& Goetz. Lime, slaking, W. I. Adams.	309,328	Tedder tooth, R. W. Dixon	309,244
Liquid drawing device, automatic, W. H. Fruen  Lock keeper plate, F. W. Mix	309,238	Telegraph paper, winding rolls of, H. F. Clarke Telephone, J. Lowth	309,476
Locks in place, securing cabinet, G. B. Cowles Looms, positive shuttle motion for, Day & Bristol		Telephonic apparatus, T. J. Perrin Thill coupling, H. W. King	309,469
Mail bag fastener, B. F. Kraft	309,231	Tie. See Railway tie. Timepiece mechanism, J. Lindauer Timeplece, twenty-four hour, H. C. Fick	
Mechanical movement, A. May  Metal, expanding and anti-friction, G. Hayden	309.236	Tongs, tinner's H. O. Reese	309,359
Meter. See Water meter. Mill. See Grinding mill.	000,	Torch and battle ax, combined, A. Wolf  Traction wheel. J. A. Stout.	309,370
Mining machine, coal, Hohn & High Nail, J. W. G. Smith	309,414	Trap, E. S. McClellan Tricycle, G. T. Warwick	309,395 309,325
Nail machine, wire, R. Egli	309,446 309,255	Truck, car. E. U. Benedict	309,185 309,266
Necktie and collar fastener, F. D. Adams  Necktie fastening, G. R. Hughes	309.465		309,510
Oar, rowing, F. A. Allen	309,407	Trunk, packing case, etc., G. Mortimer et al  Tube stopper, G. Washington	309,368
Ordnance.breech-loading, B. B. Hill		Turbine wheel J. Humphrey  Twist drills, machine for clearing, Stetson &  Buchter	
Oven, W. H. Thompson	309,366	Type writing machine, J. W. Cole	309,378
Pad. See Packing pad.  Paint, fire and water proof roofing, Philips &	oveyen.	Valve apparatus for steam engines and pumps, H. Tenting.	
Taylor	309 490	Valve gear, Class & Schwan	309,333
ley		Vehicle brake, Fox & Wenmoth	309,217
Pan. See Dust pan. Paper making machines, joint for steam pipes in,		Vehicle stake holder, L. D. Fuller	309,298
G. W. Hall	l	Velocipede wheel, E. C. F. Otto	309,355
manufacture of, H. Whittingham	309,303	W. R. Patterson	309 <b>,28</b> 6
Pawl and ratchet, J. Thomson	309,307	Wagon, side bar, G. D. Selby Washer. See Bottle washer.	309,409
Pencil measuring attachment, I. B. Millner		Watch case, D. O'Hara	309,340
Pine cutting and threading machine, Bignall & Whitman	209.374	Water tube boiler, E. J. Moore	309,352
Pipe joint, lead, W. R. Patterson	309,247 309,473	Wear hook for back pad billets, O. A. Dean	309,413
Pistol holster, pocket, G. W. Browne	309,292 309,400	Wheat cleaning and grading machine, M. Forder. Wheel. See Traction wheel. Turbine wheel.	
Planingand matching machine, W. M. Dwight 3 Planter and seed sower, combined cotton, E. E.	!	Velocipede wheel. Wheelbarrow wheel.	309,193
Hughes	÷#₹%	Wick raiser and trimmer for lanterns, T. M. McLeod	309,481
Son	309,453	Windlass, L. W. Post	309,314 309,477
Plow and harrow, combined, C. Perkins	309,434	Wire, compound, Chillingworth & Russell	
Plow shirt W. S. Pates	3119.489	Wire, compound, Paul & Wood	309 <b>,5</b> 09
Plow, sulky, W. S. Pates		Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468
Power machine, weight, M. Vandercook et al 3	309,422 309.304	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295
Power machine, weight, M. Vandercook et al	309,422 309.304 309,220 309,316	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295 309,312
Power machine, weight, M. Vandercook et al	309,422 309,304 309,220 309,316 <b>9</b> 09,331 309,335	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295 309,312
Power machine, weight, M. Vandercook et al.       3         Press. See Bailing press. Cotton press.       3         Printing press, J. M. Jones.       3         Printing press color inking apparatus, M. Gally.       3         Profle cutting machine, F. A. Schmidt.       5         Protector. See Face protector.       5         Pump, L. Bouvier.       5         Pump, N. W. Condict, Jr.       5         Pump, S. Hanford.       3         Pump, T. Rose.       3	309,422 309,304 309,220 309,316 <b>3</b> 09,331 309,335 309,347 309,493	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295 309,312 309,389
Power machine, weight, M. Vandercook et al.       3         Press. See Bailing press. Cotton press.       3         Printing press, J. M. Jones       3         Printing press color taking apparatus, M. Gally       3         Profile cutting machine, F. A. Schmidt       5         Protector. See Face protector.       9         Pump, L. Bouvier       5         Pump, N. W. Condict, Jr       3         Pump, S. Hanford       3         Pump, T. Rose       3         Pump, air, L. S. Hoyt       3         Pump rod coupling, B. C. Vanduzen       3	309,422 309,304 309,220 309,316 <b>3</b> 09,331 309,335 309,347 309,498 309,391 309,324	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen  Wool, etc., process of and apparatus for scouring and washing. E. Patry  Wrench, W. P. Heffron  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton  Bottle, M. W. Michell	309,468 309,295 309,312 309,389 15,618 15,620
Power machine, weight, M. Vandercook et al.       3         Press. See Bailing press. Cotton press.       3         Printing press, J. M. Jones       3         Printing press color inking apparatus, M. Gally       3         Profeter.       5         Protector. See Face protector.       5         Pump, L. Bouvier       5         Pump, N. W. Condict, Jr       5         Pump S. Hanford       3         Pump, T. Rose       3         Pump, air, L. S. Hoyt       3         Pump rod coupling, B. C. Vanduzen       3         Punching machine, metal, A. Andersen       3         Quilting frame and table, J. F. Rickenbrode       3	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,498 309,391 309,324 309,325	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295 309,312 309,389 15,618 15,620 15,619 15,616
Power machine, weight, M. Vandercook et al	309,422 309,304 309,220 309,316 <b>309,331</b> 309,335 309,347 309,498 309,391 309,324 309,325 309,344 309,356	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen  Wool, etc., process of and apparatus for scouring and washing. E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton  Bottle, M. W. Michell  Bottle, caster, W. H. Lum  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,619 15,616 15,621 15,630
Power machine, weight, M. Vandercook et al	309,422 309,304 309,220 309,316 <b>50</b> 9,331 309,325 309,438 309,438 309,324 309,324 309,324 309,325 309,324 309,325 309,329 309,329 309,329	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen  Wool, etc., process of and apparatus for scouring and washing, E. Patry  Wrench, W. P. Heffron  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton  Bottle, M. W. Michell  Bottle, caster, W. H. Lum  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,619 15,621 15,630 16,627 15,638
Power machine, weight, M. Vandercook et al	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,498 309,324 309,252 309,252 309,252 309,252 309,344 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen  Wool, etc., process of and apparatus for scouring and washing, E. Patry  Wrench, W. P. Heffron  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton  Bottle, M. W. Michell  Bottle, caster, W. H. Lum  Carpet, H. Horan	309,468 309,296 309,312 309,389 15,618 15,620 15,619 15,621 15,630 15,627 15,624 15,624
Power machine, weight, M. Vandercook et al.  Press. See Bailing press. Cotton press.  Printing press, J. M. Jones.  Proflecutting machine, F. A. Schmidt.  Proflecutting machine, F. A. Schmidt.  Pump, L. Bouvier.  Pump, L. Bouvier.  Pump, N. W. Condict, Jr.  Pump, S. Hanford.  Pump, T. Rose.  Pump, T. Rose.  Pump, air, L. S. Hoyt.  Punching machine, metal, A. Andersen  Quilting frame and table, J. F. Rickenbrode.  Railway grip mechanism, cable, I. Hyde.  Railway grip mechanism, cable, I. Hyde.  Railway rail joint, S. McCarty.  Railway rail joint, C. A. Miller  Railway rail joint, C. A. Miller  Railway is J. H. Williams.  Refrigerating and apparatus therefor, T. Rose.  Refrigerating apparatus for cooling storage bins,  barrels, etc., H. Luhmann.  Refrigerator, W. D. Grant.	309,422 309,304 309,220 309,316 509,331 309,335 309,347 309,438 309,391 309,324 309,432 309,252 309,344 309,506 309,479 309,498 309,494	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing. E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish handle. C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson.	309,468 309,295 309,312 309,389 15,618 15,620 15,630 15,621 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,632
Power machine, weight, M. Vandercook et al	309,422 309,304 309,220 309,316 509,331 309,335 309,347 309,438 309,391 309,324 309,432 309,252 309,344 309,506 309,479 309,498 309,494	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,630 15,627 15,628 15,625 15,625 15,625 15,625 15,625 15,625 15,625 15,625 15,627 15,627 15,628
Power machine, weight, M. Vandercook et al.  Press. See Bailing press. Cotton press.  Printing press, J. M. Jones.  Printing press, J. M. Jones.  Printing press color inking apparatus, M. Gally.  Profle cutting machine, F. A. Schmidt.  Profle cutting machine, F. A. Schmidt.  Pump, L. Bouvier.  Pump, N. W. Condict, Jr.  Pump, S. Hanford.  Pump, S. Hanford.  Pump, T. Rose.  Pump, air, L. S. Hoyt.  Pump air, L. S. Hoyt.  Punching machine, metal, A. Andersen.  Quilting frame and table, J. F. Rickenbrode.  Railway crossing, J. A. Goodrich.  Railway grip mechanism, cable, I. Hyde.  Railway rail joint, S. McCarty.  Railway rail joint, C. A. Miller.  Railway ril, J. H. Williams.  Refrigerating and apparatus therefor, T. Rose.  Refrigerator, W. D. Grant.  Refrigerator, W. D. Grant.  Regulator. See Gas regulator. Heat regulator.  Rein holder, C. C. Barr.  3	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,493 309,391 309,391 309,252 309,252 309,252 309,496 309,496 309,496	Wire, manufacture of compound, I. A. & M. D. Kilmer	309,468 309,295 309,312 309,389 15,620 15,619 15,621 15,621 15,624 15,624 15,624 15,625 15,624 15,625 15,626 15,62
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Schmidt. Proflecutting machine, F. A. Schmidt. Proflecutting machine, F. A. Schmidt. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, T. Rose.  Pump, T. Rose.  Pump, T. Rose.  Pump, air, L. S. Hoyt. Pump, air, L. S. Hoyt. Punching machine, metal, A. Andersen Quilting frame and table, J. F. Rickenbrode. Railway grip mechanism, cable, I. Hyde. Railway rail joint, S. McCarty. Railway rail joint, C. A. Müller Railway fe, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerating apparatus for cooling storage bins, Parrels, etc., H. Luhmann. Refrigerator, J. Saurer. Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein, See Knife ring, Lap ring. Rivet, T. J. Wood.	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,498 309,391 309,324 309,324 309,324 309,324 309,432 309,432 309,432 309,432 309,432 309,432 309,433 309,434 309,436 309,436 309,436 309,436	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, aster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,620 15,619 15,621 15,621 15,624 15,624 15,624 15,625 15,624 15,625 15,626 15,62
Power machine, weight, M. Vandercook et al.  Press. See Bailing press. Cotton press.  Printing press, J. M. Jones.  Printing press, J. M. Jones.  Printing press color inking apparatus, M. Gally.  Profle cutting machine, F. A. Schmidt.  Profle cutting machine, F. A. Schmidt.  Profle cutting machine, F. A. Schmidt.  Pump, L. Bouvier.  Pump, N. W. Condict, Jr.  Pump, S. Hanford.  Pump, S. Hanford.  Pump, T. Rose.  Pump, air, L. S. Hoyt.  Pump rod coupling, B. C. Vanduzen.  Punching machine, metal, A. Andersen.  Quilting frame and table, J. F. Rickenbrode.  Railway crossing, J. A. Goodrich.  Railway grip mechanism, cable, I. Hyde.  Railway rail joint, S. McCarty.  Railway rail joint, C. A. Miller.  Railway te, J. H. Williams.  Rafrigerating and apparatus therefor, T. Rose.  Refrigerating and apparatus therefor, T. Rose.  Refrigerator, W. D. Grant.  Refrigerator, J. Saurer.  Regulator. See Gas regulator. Heat regulator.  Rein holder, C. C. Barr.  Ring. See Knife ring. Lap ring.  Rivet, T. J. Wood.  Roofing machine, H. A. Leher.  30  30  30  30  30  30  30  30  30  3	309,422 309,304 309,220 309,316 309,331 309,335 309,347 309,493 309,493 309,252 309,252 309,391 309,391 309,393 309,494 309,494 309,494 309,494 309,494 309,496	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson  Spoon or fork handle, G. W. Hull  Stove, heating, W. C. Higgins.  Tag holder or fastener, W. E. Preble  Vinaigrette, H. F. H. Bothe.  TRADE MARKS.	309,468 309,295 309,312 309,389 15,618 15,620 15,691 15,691 15,624 15,624 15,624 15,624 15,624 15,624 15,625 15,625 15,625 15,625 15,636 15,63
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Proflector. See Face protector. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose.  Pump, alr, L. S. Hoyt. Pump, alr, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Punching machine, metal, A. Andersen. Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, S. McCarty. Railway rail joint, C. A. Miller. Railway rill, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, J. Saurer. Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher.	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,498 309,493 309,493 309,493 309,493 309,494 309,494 309,494 309,494 309,494 309,494 309,494 309,494 309,494 309,494 309,494	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, aster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,619 15,621 15,623 15,624 15,622 15,623 15,625 15,626 15,621 15,621 15,621 15,621 15,623 15,625 15,626 15,621 15,62
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Schmidt. Profle cutting machine, F. A. Schmidt. Proflector. See Face protector. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose.  Pump, T. Rose.  Pump, alr, L. S. Hoyt. Punching machine, metal, A. Andersen Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, S. McCarty.  Railway rail joint, C. A. Miller. Railway til, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, W. D. Grant. Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher. Roofing, metallic, M. F. Hamsley. Rotary engine, J. C. Edmunson Sad iron, Haas & Mark.  3 Rotary engine, J. C. Edmunson	309,422 309,304 309,220 309,316 909,331 309,325 309,347 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing. E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish handle, C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson  Spoon or fork handle, G. W. Hull  Stove, heating, W. C. Higgins.  Tag holder or fastener, W. E. Preble  Vinaigrette, H. F. H. Bothe  TRADE MARKS.  Alloy resembling silver, Silver Metal Manufacturing Company.	309,468 309,295 309,312 15,618 15,620 15,69 15,69 15,624 15,625 15,624 15,625 15,625 15,626 15,627 15,630 15,627 15,631 15,631 15,631
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Profector. See Face protector. Pump, L. Bouvier. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, T. Rose. Pump, air, L. S. Hoyt. Pump, air, L. S. Hoyt. Pump and coupling, B. C. Vanduzen. Pumping machine, metal, A. Andersen Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, S. McCarty. Railway rail joint, C. A. Miller. Railway tie, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerating apparatus for coolingstorage bins, barrels, etc., H. Luhmann. Refrigerator, W. D. Grant. Refrigerator, J. Saurer. Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Reing, See Knife ring, Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher. Roofing, metallic, M. F. Hamsley. Roofing, metallic, M. F. Hamsley. Roofing machine, H. A. Leher. Sand lion, Haas& Mark. Sampling casks, apparatus for, G. D. W. Lennon. Sand drier, G. H. Campbell Sash holder, J. F. Hamilton. Sas Saw bandle, W. H. Hankin, Jr Paw, pruning, H. G. Emens.	309,422 309,304 309,220 309,316 909,331 309,325 309,327 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, aster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,621 15,621 15,624 15,624 15,625 15,624 15,625 15,624 15,621 15,621 15,631 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,633 15,632 15,633 15,632 15,633 15,63
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Proflector. See Face protector. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose. Pump, air, L. S. Hoyt. Pump, air, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, C. A. Miller. Railway rail joint, C. A. Miller. Railway tall joint, C. A. Miller. Railway tall joint, S. McCarty. Refrigerating and apparatus therefor, T. Rose. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machline, H. A. Leher. Sampling casks, apparatus for, G. D. W. Lennon. Sand drier, G. H. Campbell Sassh holder, J. F. Hamilton. Saw bandle, W. H. Hankin, Jr Paw, pruning, H. G. Emens. Seeed drill feed box, W. P. Etam. Seed drill feed box, W. P. Etam.	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,493 309,391 309,393 309,493 309,493 309,494 309,252 309,496 309,497 309,399 309,496 309,496 309,497 309,399 309,496 309,496 309,497 309,399 309,496 309,496 309,496 309,496 309,496 309,497 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,619 15,621 15,621 15,622 15,625 15,625 15,625 15,626 15,621 15,621 15,623 15,625 15,625 15,621 15,631 11,801 11,801 11,787 11,787
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Schmidt. Proflecutting machine, F. A. Schmidt. Proflecuting machine, F. A. Schmidt. Proflecuting machine, J. M. Schmidt. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, T. Rose.  3 Pump, T. Rose.  3 Pump, air, L. S. Hoyt. Pump, air, L. S. Hoyt. Punching machine, metal, A. Andersen Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde.  3 Raiway rail joint, S. McCarty. Railway rail joint, C. A. Miller Railway rail joint, C. A. Miller Railway ite, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerator, J. Saurer. Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Regings, See Knife ring. Lap ring. Rivet, T. J. Wood.  8 Roofing, metallic, M. F. Hamsley.  8 Roofing, metallic, M. F. Hamsley.  8 Rodary engine, J. C. Edmunson.  8 Sand drien, H. A. Leher.  8 Roofing, metallic, M. F. Hamsley.  8 Sand ron, Haas & Mark.  8 Sampling casks, apparatus for, G. D. W. J.ennon.  8 Sand drien, G. H. Campbell Sash holder, J. F. Hamilton.  8 Saw bandle, W. H. Hankin, Jr  9 Paw, prunting, H. G. Emens.  8 Screw cutting die, F. D. Mayo.  8 Seed drill feed box, W. P. Eam  8 Otstot.  8 Screw cuttont.  9 Printing gress, Jones and Press, G. P. W. J.ennon.	309,422 309,304 309,220 309,316 309,331 309,335 309,347 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, asster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 15,618 15,620 15,69 15,69 15,624 15,625 15,624 15,625 15,626 15,626 15,627 15,630 15,627 15,631 11,801 11,787 11,787 11,795
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Profle cutting machine, F. A. Schmidt. Profle cutting machine, F. A. Schmidt. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose. Pump, air, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Pump rod coupling, B. C. Vanduzen. Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, C. A. Miller. Railway rail joint, C. A. Miller. Railway rail joint, C. A. Miller. Railway til, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, W. D. Grant. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Rein, See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher. Roofing, metallic, M. F. Hamsley. Rotary engine, J. C. Edmunson. Sand drier, G. H. Campbell. Sash holder, J. F. Hamilton. Saw bandle, W. H. Hankin, Jr. Saw bandle, W. H. Hankin, Jr. Saw bandle, W. H. Hankin, Jr. Separator. See Grain separator. Seeding machine coverer attachment, J. D. Otstot. Seeparator. See Grain separator. Seewing machine bobbin winder, A. V. Abercrom-	309,422 309,304 309,220 309,316 309,331 309,335 309,347 309,498 309,391 309,324 309,221 309,496	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, daster, W. H. Lum.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson  Spoon or fork handle, G. W. Hull  Stove, heating, W. C. Higgins.  Tag holder or fastener, W. E. Preble  Vinaigrette, H. F. H. Bothe  TRADE MARKS.  Alloy resembling silver, Silver Metal Manufacturing Company.  Calf's foot jelly, H. & E. Humhert.  Carpets, rugs, and mats, certain, J. Crossley & Sons.  Cement, Knight, Bevan & Sturge  Ceramic designs adapted to be framed, certain, J. G. & J. F. Low.  Cod-liver oil, Lanman & Kemp's pure, Lanman & Kemp.  Coffees of all kinds, W. F. McLaughlin.  Cotton cloths, Hyde & Burton  Cotton goods, both brown and bleached, plain and	309,468 309,295 309,312 309,389 15,618 15,620 15,621 15,631 15,624 15,624 15,624 15,624 15,624 15,625 15,625 15,631 11,801 11,781 11,787 11,795 11,795 11,796
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Proflector. See Face protector. Pump, L. Bouvier. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose.  Pump, T. Rose.  Pump, air, L. S. Hoyt. Punching machine, metal, A. Andersen Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde.  Railway rail joint, S. McCarty.  Railway rail joint, C. A. Miller.  Railway rail joint, C. A. Miller.  Railway tie, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant.  Refrigerator, W. D. Grant.  Register. See Cash register. Regulator. See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood.  Roofing machine, H. A. Leher.  Roofing, metallic, M. F. Hamsley.  Roofing, metallic, M. F. Hamsley.  Sampling casks, apparatus for, G. D. W. Lennon.  Saw bandle, W. H. Hankin, Jr  Paw, pruning, H. G. Emens.  Saseed drill feed box, W. P. Elam  Seed drill feed box, W. P. Elam  Seed drill feed box, W. P. Elam  Seeding machine coverer attachment, J. D.  Otstot.  Sewing machine, button L. J. Driscoll.	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,498 309,349 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Dish handle. C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson  Spoon or fork handle, G. W. Hull.  Stove, heating, W. C. Higgins.  Tag holder or fastener, W. E. Preble  Vinaigrette, H. F. H. Bothe  TRADE MARKS.  Alloy resembling silver, Silver Metal Manufacturing Company.  Calif's foot jelly, H. & E. Humhert.  Carpets, rugs, and mats, certain. J. Crossley & Sons.  Cement, Knight, Bevan & Sturge  Ceramic designs adapted to be framed, certain, J. G. & J. F. Low.  Cod-liver oil, Lanman & Kemp's pure, Lanman & Kemp.  Coffees of all kinds, W. F. McLaughlin.  Cotton goods, both brown and bleached, plain and twilled, Laconia Company	309,468 309,295 309,312 309,389 15,618 15,629 15,619 15,616 15,621 15,621 15,623 15,625 15,625 15,621 15,611 11,801 11,787 11,787 11,787 11,795
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Profector. See Face protector. Pump, L. Bouvier	309,422 309,304 309,220 309,316 309,331 309,335 309,347 309,498 309,391 309,324 309,224 309,224 309,344 309,393 309,496	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,620 15,630 15,621 15,632 15,624 15,632 15,632 15,632 15,631 11,781 11,787 11,787 11,787 11,797 11,779
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Profle cutting machine, F. A. Schmidt. Profle cutting machine, F. A. Schmidt. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose. Pump, air, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Pump rod coupling, B. C. Vanduzen. Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, C. A. Miller. Railway rail joint, C. A. Miller. Railway ril, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, W. D. Grant. Refrigerator, See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher. Roofing, metallic, M. F. Hamsley. Rotary engine, J. C. Edmunson. Sand drier, G. H. Campbell. Sash holder, J. F. Hamilton. Saw bandle, W. H. Hankin, Jr. Paw, pruning, H. G. Emens. Seewing machine coverer attachment, J. D. Otstot. Seewing machine coverer attachment, J. D. Otstot. Seewing machine bobbin winder, A. V. Abercromble. Seewing machine button, L. J. Driscoll. Seewing machine trimming attachment, E. M.	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,488 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,621 15,631 15,621 15,622 15,631 15,625 15,641 11,801 11,791 11,795 11,796 11,790 11,779
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Proflector. See Face protector. Pump, L. Bouvier. Pump, N. W. Condict, Jr. Pump, N. W. Condict, Jr. Pump, S. Hanford. Pump, T. Rose. Pump, air, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Pumph air, L. S. Hoyt. Pump rod coupling, B. C. Vanduzen. Quilting frame and table, J. F. Rickenbrode. Railway crossing, J. A. Goodrich. Railway grip mechanism, cable, I. Hyde. Railway rail joint, S. McCarty. Railway rail joint, C. A. Miller. Railway rile, J. H. Williams. Refrigerating and apparatus therefor, T. Rose. Refrigerating and apparatus therefor, T. Rose. Refrigerator, W. D. Grant. Refrigerator, See Gas regulator. Heat regulator. Rein holder, C. C. Barr. Ring. See Knife ring. Lap ring. Rivet, T. J. Wood. Roofing machine, H. A. Leher. Roofing machine, H. A. Leher. Roofing machine, H. A. Leher. Sampling casks, apparatus for, G. D. W. Lennon. Sand drier, G. H. Campbell Sash holder, J. F. Hamilton. Saw bandle, W. H. Hankin, Jr Paw, pruning, H. G. Emens. Seed drill feed box, W. P. Elam Seed drill feed box, W. P. Elam Seed drill feed box, W. P. Elam Seeding machine coverer attachment, J. D. Otstot. Sewing machine bobbin winder, A. V. Abercromble. Sewing machine bobbin winder, A. V. Abercromble. Seewing machine trimming attachment, E. M. Hewson Seewing machines, tension apparatus for straw hat and other, C. H. Willcox	309,422 309,304 309,220 309,316 909,331 309,335 309,347 309,493 309,391 309,393 309,391 309,344 309,493 309,493 309,494 309,493 309,494 309,494 309,494 309,494 309,494 309,496 309,497 309,498 309,496 309,497 309,496 309,496 309,496 309,496 309,496 309,497 309,496	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, M. W. Michell.  Bottle, caster, W. H. Lum.  Carpet, H. Horan.  Dish, C. E. Haviland.  Dish hor table ware, C. E. Haviland.  Dish for table ware, C. E. Haviland.  Organ case, J. F. Volz.  Pendant, B. Dreyfus.  Range, cooking, I. A. Sheppard.  Sand band cap, J. S. Newland.  Shoe clasp tongue, J. I. Thomson  Spoon or fork handle, G. W. Hull.  Stove, heating, W. C. Higgins.  Tag holder or fastener, W. E. Preble  Vinaigrette, H. F. H. Bothe  TRADE MARKS.  Alloy resembling silver, Silver Metal Manufacturing Company.  Calf's foot jelly, H. & E. Humhert.  Carpets, rugs, and mats, cevtain, J. Crossley & Sons.  Cement, Knight, Bevan & Sturge  Ceramic designs adapted to be framed, certain, J. G. & J. F. Low.  Cod-liver oil, Lanman & Kemp's pure, Lanman & Kemp.  Coffees of all kinds, W. F. McLaughlib.  Cotton cloths, Hyde & Burton  Cotton goods, both brown and bleached, plain and twilled, Laconia Company.  Disinfectants and moth destroyers, W. H. H. Childs  Grape vines, Niagara white, Niagara White Grape	309,468 309,295 309,319 15,618 15,620 15,630 15,631 15,632 15,632 15,632 15,632 15,632 15,632 15,632 15,631 11,801 11,787 11,786 11,797 11,779 11,779 11,779
Power machine, weight, M. Vandercook et al. Press. See Bailing press. Cotton press. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press, J. M. Jones. Printing press color inking apparatus, M. Gally. Profle cutting machine, F. A. Schmidt. Profector. See Face protector. Pump, L. Bouvier	309,422 309,304 309,331 309,335 309,335 309,337 309,498	Wire, manufacture of compound, I. A. & M. D. Kilmer.  Wire springs, machine for bending. G. Dentgen.  Wool, etc., process of and apparatus for scouring and washing, E. Patry.  Wrench, W. P. Heffron.  Wringer. See Clothes wringer.  DESIGNS.  Air grate or ventilator, S. H. Lighton.  Bottle, M. W. Michell.  Bottle, aster, W. H. Lum.  Carpet, H. Horan	309,468 309,295 309,312 309,389 15,618 15,621 15,631 15,621 15,622 15,631 15,625 15,641 11,801 11,791 11,795 11,796 11,790 11,779 11,779

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Spring jack switch, R. V. Freeman	
Stave dressing machine, G. J. Fritz	309,341
Stave packer, J. Tomlinson	309,421
Steam boiler, B. F. Mohr	309,484
Steam boiler flue cleaner, J. Cocker	309,377
Steam brake, Taylor & Sutherland	
Steam cylinders, withdrawing water of condensa-	
tion from, C. C. Worthington	
Steam generator, B. T. Babbitt	303,282
Steam generators, apparatus for cleaning, B. T.	000 000
Babbitt	
Steel and steely iron, manufacturing articles of,	
S. Johnston	309,507
Steel, nardening, L. B. Rockwell	309,492
Stopper. See Tube stopper.	
Store service apparatus, M. Clark309,198,	309,199
Store service system, M. Clark309,197, 309,200,	
Stove drum, B. F. Myers	
Suspenders, J. A. Stuart	
Switch. See Spring jack switch.	,
Tag, S. Herzberg	309 300
Tag and fastener. M. Alshuler	
Tedder tooth, R. W. Dixon	000,440
Telegraph cables, making, W. R. Patterson	309,244
Telegraph paper, winding rolls of, H. F. Clarke	309,352
Telephone, J. Lowth	
Telephonic apparatus, T. J. Perrin	
Thill coupling, H. W. King	309,469
Tie. See Railway tie.	
Timepiece mechanism, J. Lindauer	309.306
Timeplece, twenty-four hour, H. C. Fick	
Tongs, tinner's H. O. Reese	
Tool handle, C. Carleton	
Torch and battle ax, combined, A. Wolf	
Traction wheel. J. A. Stout	
Trap, E. S. McClellan	
Tricycle, G. T. Warwick	
Truck, car, E. U. Benedict	309,185
Truck, car. G. T. Washburn	
Truck, warehouse, S. Taylor	309,365
Trucks, truss plate for car, S. A. Bemis	309,510
Trunk, packing case, etc., G. Mortimer et al	
Tube stopper, G. Washington	
Munking mhas) [ Hummhan	,
Turbine wheel, J. Humphrey	309,227
Twist drills, machine for clearing, Stetson &	
Twist drills, machine for clearing, Stetson & Buchter	309,259
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 <b>30</b> 9,423
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 309,423 309,298
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 <b>809</b> ,423 309,288 309,268
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 <b>809</b> ,423 309,288 309,268
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 309,423 309,288 309,268 309,355
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,487 309,423 309,288 309,288 309,355
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 <b>809,423</b> 309,288 309,268 309,355 309,355 309,245 309,286
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 <b>809,423</b> 309,288 309,268 309,355 309,355 309,245 309,286
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,272 309,418 309,333 309,480 309,217 809,423 309,288 309,268 309,268 309,268 309,268 309,268 309,268
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,272 309,418 309,333 309,480 309,217 809,423 309,286 309,286 309,286 309,286 309,286 309,286 309,286 309,286
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,9217 309,423 309,288 309,285 309,355 309,245 309,286 309,409 309,354
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,217 309,423 309,298 309,288 309,355 309,245 309,286 309,409 309,340 309,340 309,344
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 809,423 309,288 309,288 309,355 309,355 309,364 309,466 309,466 309,352
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 809,423 309,288 309,288 309,355 309,355 309,364 309,466 309,466 309,352
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 809,423 309,286 309,286 309,286 309,286 309,409 309,364 309,340 309,466 309,379 309,413
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 809,423 309,286 309,286 309,286 309,286 309,409 309,364 309,340 309,466 309,379 309,413
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,293 309,288 309,283 309,285 309,255 309,245 309,266 309,409 309,354 309,352 309,379 309,352 309,379 309,352 309,379 309,352
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,293 309,288 309,283 309,285 309,255 309,245 309,266 309,409 309,352 309,379 309,379 309,379 309,379 309,379 309,479
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,293 309,288 309,283 309,285 309,255 309,245 309,266 309,409 309,352 309,379 309,379 309,379 309,379 309,379 309,479
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,298 309,298 309,355 309,355 309,286 309,409 309,409 309,409 309,409 309,409 309,413 309,413 309,413 309,413 309,413
Twist drills, machine for clearing, Stetson & Buchter  Type writing machine, J. W. Cole  Type writing machine, J. A. Whitcomb.  Valve apparatus for steam engines and pumps, H. Tenting.  Valve gear, Class & Schwan.  Valve gear, J. P. McCook  Vehicle brake, Fox & Wemmoth.  Vehicle stake holder, L. D. Fuller  Vehicle, side spring, W. J. Wayne.  Vehicle, two-wheeled, D. D. Weisell  Velocipede wheel, E. C. F. Otto.  Ventilating test stations of underground cables.  W. R. Patterson.  Wagon bolster, Z. A. Benell.  Wagon, side bar, G. D. Selby.  Washer. See Bottle washer.  Water meter, Fraser & Clark  Water meter, Fraser & Clark  Water meter, Fraser & Clark  Water tube boiler, E. J. Moore.  Wear hook for back pad billets, O. A. Dean  Weather strip, Smith & Schwartz.  Weed cutter, R. Ford  Wheat cleaning and Krading machine, M. Forder.  Wheel. See Traction wheel. Turbine wheel.  Velocipede wheel. Wheelbarrow wheel.	309,259 309,378 309,272 309,418 309,333 309,480 309,293 309,288 309,283 309,285 309,255 309,245 309,266 309,409 309,352 309,379 309,379 309,379 309,379 309,379 309,479
Twist drills, machine for clearing, Stetson & Buchter Type writing machine, J. M. Cole Type writing machine, J. A. Whitcomb. Valve apparatus for steam engines and pumps, H. Tenting. Valve gear, Class & Schwan. Valve gear, J.P. McCook. Vehicle brake, Fox & Wenmoth. Vehicle, side spring, W. J. Wayne. Vehicle stake holder, L. D. Fuller. Vehicle, two-wheeled, D. D. Weisell. Velocipede wheel, E. C. F. Otto. Ventilating test stations of underground cables, W. R. Patterson. Wagon bolster, Z. A. Benell. Wagon, side bar, G. D. Selby. Washer. See Bottle washer. Watch case, D. O'Hara. Water meter, Fraser & Clark Waterproof fabric, F. E. Hall. Water tube boller, E. J. Moore. Wear hook for back pad billets, O. A. Dean Weather strip, Smith & Schwartz. Weed cutter, R. Ford Wheat cleaning and grading machine, M. Forder. Wheel. See Traction wheel. Turblne wheel. Velocipede wheel. W. J. Bruce. Wick raiser and trimmer for lanterns, T. M.	309,259 309,378 309,272 309,418 309,333 309,480 309,423 309,283 309,285 309,286 309,366 309,360 309,364 309,366 309,366 309,366 309,379 309,413 309,456 309,379 309,413 309,456 309,413
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,423 309,298 309,285 309,285 309,355 309,340 309,496 309,340 309,496 309,493 309,413 309,413 309,418
Twist drills, machine for clearing, Stetson & Buchter  "Type writing machine, J. W. Cole  Type writing machine, J. A. Whitcomb.  Valve apparatus for steam engines and pumps, H. Tenting.  Valve gear, Class & Schwan.  Valve gear, J. P. McCook  Vehicle brake, Fox & Wemmoth.  Vehicle side spring, W. J. Wayne.  Vehicle, side spring, W. J. Wayne.  Vehicle, two-wheeled, D. D. Weisell  Velocipede wheel, E. C. F. Otto.  Ventilating test stations of underground cables.  W. R. Patterson.  Wagon bolster, Z. A. Benell.  Wagon, side bar, G. D. Selby.  Washer. See Bottle washer.  Water meter, Fraser & Clark  Water meter, Fraser & Clark  Water proof fabric, F. E. Hall.  Water tube boiler, E. J. Moore.  Wear hook for back pad billets, O. A. Dean  Weather strip, Smith & Schwartz.  Weed cutter, R. Ford  Wheat cleaning and grading machine, M. Forder.  Wheel. See Traction wheel. Turbine wheel.  Velocipede wheel, Wheelbarrow wheel.  Wheelbarrow wheel, W. J. Bruce.  Wick' raiser and trimmer for lanterns, T. M.  McLeod.  Windlass, L. W. Post.	309,259 309,378 309,272 309,418 309,333 309,480 309,217 309,423 309,288 309,285 309,355 309,355 309,466 309,364 309,364 309,364 309,364 309,364 309,364 309,364 309,364 309,364 309,364 309,365 309,379 309,413 309,413 309,413
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,283 309,285 309,285 309,265 309,340 309,340 309,340 309,340 309,340 309,341 309,413 309,413 309,413 309,413 309,118
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,423 309,298 309,265 309,355 309,356 309,340 309,340 309,340 309,340 309,341 309,418 309,419 309,419 309,419
Twist drills, machine for clearing, Stetson & Buchter  "Type writing machine, J. W. Cole  Type writing machine, J. A. Whitcomb.  Valve apparatus for steam engines and pumps, H. Tenting.  Valve gear, Class & Schwan.  Valve gear, J. P. McCook  Vehicle brake, Fox & Wemmoth.  Vehicle side spring, W. J. Wayne.  Vehicle, side spring, W. J. Wayne.  Vehicle, two-wheeled, D. D. Weisell  Velocipede wheel, E. C. F. Otto.  Ventilating test stations of underground cables.  W. R. Patterson.  Wagon bolster, Z. A. Benell.  Wagon, side bar, G. D. Selby.  Washer. See Bottle washer.  Water meter, Fraser & Clark  Water meter, Fraser & Clark  Water proof fabric, F. E. Hall.  Water tube boiler, E. J. Moore.  Wear hook for back pad billets, O. A. Dean  Weather strip, Smith & Schwartz.  Weed cutter, R. Ford  Wheat cleaning and & rading machine, M. Forder.  Wheel. See Traction wheel. Turbine wheel.  Velocipede wheel, W. J. Bruce.  Wick, raiser and trimmer for lanterns, T. M.  McLeod.  Windlass, L. W. Post.  Windlass, L. W. Post.  Wind, compound, Chilling worth & Russell.  Wire, compound, Paul & Wood.	309,259 309,378 309,272 309,418 309,333 309,480 309,423 309,298 309,265 309,355 309,356 309,340 309,340 309,340 309,340 309,341 309,418 309,419 309,419 309,419
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 309,423 309,288 309,255 309,256 309,309 309,309 309,413 309,415
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,247 309,245 309,256 309,245 309,340 309,346 309,346 309,346 309,346 309,346 309,346 309,346 309,347 309,413 309,413 309,413 309,413 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,247 309,245 309,256 309,245 309,340 309,346 309,346 309,346 309,346 309,346 309,346 309,346 309,347 309,413 309,413 309,413 309,413 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,247 309,245 309,256 309,245 309,340 309,346 309,346 309,346 309,346 309,346 309,346 309,346 309,347 309,413 309,413 309,413 309,413 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,217 309,423 309,288 309,255 309,268 309,409 309,364 309,364 309,363 309,413 309,452 309,216 309,413
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,245 309,245 309,246 309,340 309,354 309,354 309,366 309,410 309,456 309,466 309,400 309,456 309,410 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,245 309,245 309,246 309,340 309,354 309,354 309,366 309,410 309,456 309,466 309,400 309,456 309,410 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,245 309,245 309,246 309,340 309,354 309,354 309,366 309,410 309,456 309,466 309,400 309,456 309,410 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,245 309,245 309,246 309,340 309,354 309,354 309,366 309,410 309,456 309,466 309,400 309,456 309,410 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,416
Twist drills, machine for clearing, Stetson & Buchter	309,259 309,378 309,272 309,418 309,333 309,480 309,245 309,245 309,246 309,340 309,354 309,354 309,366 309,410 309,456 309,466 309,400 309,456 309,410 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,456 309,379 309,413 309,416

# Air grate or ventilator, S. H. Lighton...... 15,618

Shoe clasp tongue, J. I. Thomson 15,626
Spoon or fork handle, G. W. Hull 15,617
Stove, heating, W. C. Higgins 15,613
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Sons
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Kemp
Coffees of all kinds, W. F. McLaughlin
Cotton cloths, Hyde & Burton
Cotton goods, both brown and bleached, plain and
twilled, Laconia Company
Culinary pots, kettles, stew-pans, etc., Capital City
Malleable Iron Company 11,779
Disinfectants and moth destroyers, W. H. H.
Childs 11,780

1	G. & J. F. Low
. rti	od-liver oil, Lanman & Kemp's pure, Lanman &
4	Kemp
-	offees of all kinds, W. F. McLaughlin 11,797
	otton cloths, Hyde & Burton
D.4	otton goods, both brown and bleached, plain and
PA	twilled, Laconia Company
ASS	ulinary pots, kettles, stew-pans, etc., Capital City
Pate	Malleable Iron Company 11,779
Asso	sisinfectants and moth destroyers, W. H. H.
and I HER	Childs 11,780
11111	rape vines, Niagara white, Niagara White Grape
	Company
- 17	nks, marking and writing, Kosmian Manufactur-
- 10	ing Company
77	nives, forks, and spoons, Gebrueder Noelle 11,800
	eather, burnishing or polishing composition for
- የ1	finishing, J. H. Dwyer il.783
Ψ.	iniment, G. H. Becks
	edicinal preparations, certain, Lanman & Kemp. 11,809
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T1	ledicine for disordered liver, rheumatism, neur-
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