Business and Personal.

The charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line. Adver tisements must be received at publication office as early a Thursday morning to appear in the following week's issue

Acme engine, 1 to 5 H. P. See adv. next issue. "U. S." metal polish. Indianapolis. Samples free Improvediron planers. W. A. Wilson, Rochester, N.Y. Wood pulp machinery. Trevor Mfg. Co., Lockport, N.Y Chain Belting & Grain Dryers, F. H. C. Mey, Buffalo, N.Y. Microbe Killer Water Filter, McConnell Filter Co., Buffalo, N. Y.

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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 This is for our information and not for publication.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. Inquirles not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

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

Books referred to promptly supplied on receipt of price.

Minerals sent for examination should be distinctly marked or labeled.

(4940) H. L. L.—We would not advise you to try the experiment of driving your boat with a primary battery. You might do it with storage batteries, but we think you would get more satisfaction out of steam than from anything else. For 2 horse power you will want 16 large cells of plunge battery. These would be very troublesome and somewhat expensive to maintain. It will cost you probably not less than \$3 a day in addition to the labor required to take care of them.

(4941) A. C. F., Cal., writes With a water pressure of 20 pounds per square inch, what is the at 39° converted into vapor is 1641 cubic feet at atmoin diameter, would it have more power? Will above wheel, with pressure named, run hand dynamo illustrated in Scientific American Supplement, No. 161, at the rate of 2,400 revolutions per minute (I mean 12 inch wheel)? A. The 12 inch wheel with good buckets, like the Pelton wheel, with the pressure named, should run 500 revolutions per minute and be equal to four-tenths of a horse power, consuming 6 cubic feet of water per minute, and will run the dynamo. The 18 inch wheel will run 340 revolutions per minute and give you three-fourths horse power, using 10 cubic feet of water per minute. The 18 inch wheel will have no more power than the 12 inch with the same amount of water. Address the Pelton, the composition used in making the wax cylinders of the Water Wheel Company, San Francisco, for their cata- Edison phonograph? How many threads to the inch is logue of water wheels, from which you may obtain the used as a feed for same? What is the diameter of the power value under the varying conditions. The rule requires more explanation than we can give in Notes and of the wax cylinders of the phonograph is a secret. We

(4942) C. W. M. asks: Can you tell me how I can drill holes in glass, common window glass? A. The drilling of glass can be done with a hard drill and spirits of turpentine. A diamond drill is much better and cheaper, if there are many holes to drill.

dropped into a hole that passes clear through the earth, yould it stop when it reaches the center or pass by it? I down to the center at all. Its circumferential velocity, derived from the earth's motion on its axis, would keep it against the east side of the hole, unless the hole was through the polar axis of the earth, when it might bob back and forth for a time until friction settled it at the

(4944) F. S. asks: 1. Is there any heat produced by the friction or motion of water? Is the the river, it will flow to the river; if lower, the river will the motive power. 11. What would be the best method temperature the same at the foot of Niagara Falls as in the river above? A. The agitation of water produces heat by friction, as demonstrated by Rumford and by experiments with screw propellers in a tank of water. Theoretically, the water in the pool should be slightly warmer than above the falls by friction, probably not within the means of observation. 2. Is there a reasonable probability that aluminum, in the near future, can be produced so cheaply as to come into practical use for roofing and other building purposes? A. There is no reasonable probability of aluminum becoming as cheap as tinned iron, zinc, or even copper for ordinary uses for some time yet, although its lightness now makes it about Manufacturers' illustrated truck and wagon catalogue twice the price of copper per bulk.

(4945) W. B. H. asks: Will you please give me the processes for preparing chemically pure zinc and lead from the ordinary commercial metals? A. Zinc can be purified by simple distillation. This will remove most of the impurities. For the production of chemically pure lead the following process is given. As it is very complicated, probably your best plan will be to buy test lead as provided for assayers. This is almost chemically pure. Heat solution of lead acetate in a lead vessel with sheet lead at from 40° to 50° C. Filter and precipitate with dilute sulphuric acid. Treat the lead sulphate with a solution of ammonium carbonate and ammonia; this gives lead carbonate. A portion of the carbonate is heated in a platinum vessel just enough to give lead oxide. To the rest add dilute nitric acid, enough to dissolve part of the carbonate. To the boiling solution of lead nitrate thus produced the oxide is added. For the original Bogardus Universal Eccentric Mill, and the filtered solution is poured into a solution of Foot and Power Presses, Drills, Shears, etc., address pure ammonium carbonate. Fuse the precipitated car-J. S. & G. F. Simpson, 28to 36 Rodney St., Brooklyn, N. Y. | bonate with potassium cyanide, and fuse the metal thus

(4946) M. V. C. writes: Please inform By mail, \$4; Munn & Co., publishers, 3*1 Broadway, N. Y. how and what I will use to recast (scrap) Britannia

Competent persons who desire agencies for a new metal so that it will have the same qualities as it has originally. That is its color and other properties. A. There is considerable variation in the composition of Britannia for various uses, and for the various parts of the same article. The alloy mostly used is composed of of hardware or machinist's specialties, desiring to be time same article. The andy mostly used is composed of hardware or machinist's specialties, desiring to be time 15 pounds, antimony 1 pound, copper 3-10 of a pound, represented in New York City and vicinity, will find it to. The solder on the work may be pure tin or a mixture of The solder on the work may be pure tin or a mixture of tin, lead or bismuth. Melt the metal in a kettle covered with pulverized charcoal. Add from 5 to 10 per cent of tin to make the metal cast clear.

> (4947) G. S. asks how are guitars finished or varnished? What kind of varnish is used? A. The wood of guitars is finished as finely as possible with the finest sand paper; then rubbed with varnish on a piece of white woolen cloth, to fill the pores, leaving as little varnish on the surface as possible. When dry, rub down the surface to smoothness with the old sand paper that had been used; then varnish with a thin coat, using a flat camel's hair brush. Make the varnish with gum bottle and dissolve, occasionally shaking up, then let it settle and decant for use. See next query also

(4948) L. C. R. says: Please give me a recipe for varnish used on violins. A. The famous is the best process? A. The products of oak wood are Italian violin makers used, it is said, the following sort acetic acid, wood naphtha and charcoal. All the liquid of varnish on their instruments: Rectified alcohol 1/2 gallon, 6 ounces gum sandarac, 3 ounces gum mastic and 1/2 pint turpentine varnish. The above ingredients are put into a tin can by the stove and frequently shaken until the whole is well dissolved. It is finally strained and kept for use. If upon application it is seen to be too thick, thin with an addition of more turpentine varnish. The wood should be stained before applying the varnish. For a red stain use camwood, logwood, or aniline

(4949) W. T. M. asks: What is the H. P. of the electric motors used on street cars? And how can you figure the pressure of a boiler with common arithmetic? E. g. you put 1 cubic foot of water in a tube and evaporate it; the volume of the tube being 5 cubic feet, what will be the pressure of the steam in the tube; and if the volume of the cylinder of the engine is 30 cubic inches, 200 revolutions, how many additional cubic inches of water must be evaporated per hour to sustain this pressure? A. Street cars require from 7 to 10 horse power for driving them. The volume of a cubic foot of water horse power of a water wheel whose diameter is 12 inches, spheric pressure. One cubic foot of water converted two jets being used whose outlets measure three-six- into steam in a tube or boiler containing 5 cubic feet of the engine under the condition stated will be 1,440,000 sults at the latter height. cubic inches per hour.

> tance will the Bell telephone serve as a transmitter? A. reliable for 1 or 2 miles? A. The electric telephone Fouror five miles on a good clear line. 2. Will a telephone work enough better to pay for using two wires? now, for long distance, and where attainable? A. None distances? I had a very satisfactory vibrating teleare for sale so far as we know.

(4951) L. J. asks: 1. Can you tell me brass drum for holding cylinders 9 A. The composition know of no way to procure the formula for you. We believe the number of threads to the inch on the Edison phonograph is 100. The brass drum is about 2 inches in

abundance of excellent water from the well for ordinary and fast and slow speed engines? A. For small powers daily domestic consumption. We desire to have an aux- a vertical is preferred, with a medium speed engine. 7. hold that the ball would stop, and I wish to settle an iliary supply in case of fire, by running a pipe direct to What are the advantages of having a large boiler caargument. A. The ball would have a hard rub in getting the river and pumping therefrom. We have consulted pacity? A. Easy firing and economy in fuel. 8. Has it hydraulic engineers, and they differ in opinion. Now I any disadvantages in the matter of fuel, etc.? A. None. would like to ask you, if we run this pipe from the bot- 9. Which is more economical of power, belting or gearwater flow into the well from the river, or will the re- of belting. 10. What would be the difference in the savverse be the result and we lose our present supply by the ing of power in two cases as follows? 1. Belting, a chopthe well at ordinary height is higher than the water in is saved with the least running gear, i. e., directly from flow to the well. It requires but little engineering to as- of communicating power from an engine, say 10 horse certain the exact conditions. Better make a direct connection from the river to the pump, with valves to control the suction from both directions

> (4953) W. H. H. asks: How is the beautiful polish produced on the stocks of high grade guns? A. The stocks after finishing with the finest sand paper are varnished with pure shellac dissolved in 95 per cent alcohol, dried, and rubbed down fine with the old sand paper. Another coat of shellac is given. Then rub with French polish or shellac and mastic equal parts in alcohol with woolen cloth until the desired polish is obtained.

(4954) H. M. asks: Can you inform me through your valuable paper how to make a hard black cement or filling, something that will bake or dry hard, and not be affected by the heat generated in polishing the metal in which it is used? A. Use fine iron borings and sulphur, made into a putty, hot. Press it hard into the hole. 2. What substitute is there for nitric acid in the process of dipping brass work that will produce the same effect without raising fumes? I know there is something, and would like to find out what it is. A. Oxalic acid acts similarly to nitric acid, but is not as

power would a constant stream of water of 2,000 gallons mend it, as it is very inconvenient to handle and care for per minute produce with 40 feet fall through standpipe | on building fronts. When once cleaned as above describ by means of a horizontal (or later style) turbine? A. The total value of the power as stated is 20 horse power. from which a net 17 horse power may be utilized

(4956) W. F. B. writes: I desire to make first Methodist church of this place, and was cracked by experience in constructing dynamo-electric machinery, a crowbar or some other instrument falling on it from above. The crack is about 11 inches long, beginning 414 inches from the base and one inch from place where to the one you gave a cut of last month. What I pro-· clapper strikes, running diagonally up the side, upper end of crack being 13 inches from base of bell. I wish to know the best method of sawing out the crack and what shuts down and I want to run about 15 or 20 16-candle width the edges of it would have to be separated to prevent their coming in contact by the vibration. A. Drill a half inch hole at each end of the crack and saw out the volt continuous current shunt-wound dynamo. Now crack between the holes with a narrow stiff hack saw three thirty-seconds of an inch thick. A frame may be made of iron spanning the bottom of the bell, to hold the hack saw and keep it from kinking. The position of clapper stroke should be changed as far as possible away from the crack. If a swinging bell, it should be turned around. The clapper should also be made lighter to save an extension of the crack by excessive vibration.

(4957) J. S. T. asks: 1. What are the mastic 1 ounce, gum sandarac ½ ounce, gum camphor ¼ liquid products of oak wood and what is the best method ounce, 95 per cent alcohol 2 fluid ounces; place in a clean of extracting them? What are they used for and what are their market values? What is the condition of the wood when the liquids are removed? Is it suscertible of receiving other liquids by boiling or pressure, if so, what acetic acid, wood naphtha and charcoal. All the liquid products are marketed through the chemical trade. Charcoal finds a home market. Cannot quote price. The wood may be saturated with tar products for preservation. See Spon's "Encyclopedia," parts 1, 2, 3, on the distillation of wood, 75 cents each, mailed.

> (4958) J. A. G., Quebec, writes: In your Notes and Queries, No. 4760, it is asked if aluminum could be tempered. A Canadian named F. Allard, of

> sciopticon an oxygen gas bag made of rubber and canoxide of manganese. Suppose I fill the bag full and use only a portion of it. Is there any objection in any way well in the bag with a very small percentage of loss

(4960) A. F. writes: Will you kindly about 750° or a low red heat. The water required to run at any fall from two to eight feet. They give the best re-

(4961) D. E., Jr., writes: 1. Is there a (4950) F. N. A. asks: 1. To what distelephone that can be bought outright which would be phone, but used a light iron wire, which when rusted would not bear the strain of taking the sag out. A Cyclopedia of Receipts, Notes and Queries." traveling man put it up and put the poles too far apart. I thought I might run a heavier steel wire, and hang a light copper wire under it. A. Yes; with loops of elastic material. 3. Whatsize wire would you suggest? A. Use galvanized telegraph wire for the main wire. 4. What is the best type of steam engine for use in a creamery where there will be no regular engineer? A. A vertical engine and vertical boiler on separate foundations. If not used is the principle of the compressed air igniter. The ordiconstantly, a gasoline or petroleum engine will be per- nary method of compression to 1,000 to 2,000 pounds is fectly safe and easy of management. See advertisements , by stages, with cool devices between the stages to keep (4952) E. H. O. writes: The water sup- in Scientific American. 5. Also, the safest and most down the heat. 2. What thickness of cast iron or copply for a village is obtained from an "infiltration well", economical fuel. A. Coalisthe safest and most economi- per will be necessary to safely confine the air at such

(4943) M. B. asks: If a ball be located close by the banks of a tidal river. There is an cal fuel. 6. What is your opinion of an upright boiler tom of the well to low water mark in the river, will the ing? A. There is very little difference; if any, in favor waterflowingfrom the well into the river? It is upon ping bar directly to an engine. 2. Belting to a line of this point that the engineers differ. A. If the water in shafting 75 feet long, and then to an engine. A. Power power, with perpendicular band wheel? If you would advise a belt, would there be any loss of power or other disadvantage as compared with both wheels in the same plane? A. We recommend belts for small power in all cases unless absolutely necessary to use gearing by short distances of centers. The use of a secondary shaft may be made for transmitting power to a distance to advan-

> (4962) Mason writes: Please state the most practical manner of removing a white incrustation which has formed on the surfaces of hard red brick used in the front of a building. Can it be rubbed off with a soft brick? Can an acid be used? What would be the effect of painting? The owners of the building wish this incrustation removed, supposing that, if once removed, it would not appear again; would it? And if it would, about what length of time before it would be seen again? A. The white substance encrusting the face of brick walls may be either carbonate of soda or sulphate of magnesia. They are derived from the lime containing soda salts or magnesia salts; pure lime makes no incrustating efflorescence. The usual method is to scrub the surface with a steel brush, then rub the surface with a soft brick; dry and oil with linseed oil. Weak hydro-(4955) H. B. asks: How many horse chloric acid will remove some stains. We do not recomed it will not give trouble for some time. After the oiling, a coat of paint will stop the effiorescence

(4963) J. W. R. writes: I have built the eight-light dynamowhich you illustrated and gave deinquiry of you as to the best method of restoring the tone tailed drawings and specifications of some years ago. of a large bell which is cracked. The dimensions of the And I can say that I am only too proud of it, as it is a bell are as follows: Height 2 feet, diameter at base 2 feet "dandy." It neither gets warm nor sparks, and gives a 11 inches, thickness 21/2 inches. The bell is hungin the nice, fine, steady, brilliant light. And as this was my first and I had such good success, I feel that I can construct a storage battery if I had a few more pointers in regard pose to do is this; Charge the battery with my surplus current from 7 P. M. until 10 P. M.; then my machine powerlamps 110 volts the remainder of the night. Mv machine is a United States Weston system 300 ampere 110 what I want to know is this: 1. What thickness should the sheet lead be, also the dimensions of same for 15 or 20 lamps? A. 'The thickness of the lead plates should not be less than one-sixteenth of an inch. 2. How many lead sheets shall I need? A. You should use about 15 plates per cell. For 50 volt lamps you will require 25 cells, for 110 volt lamps you will require 56 cells. The 50 volt lamps are generally used in connection with storage batteries. 3. How shall I connect in circuit in series, or same as my lamps are in parallel? A. Connect your cells in series and your lamps in parallel. 4. What can I substitute for glass for the cells? Something I could mould or cast myself, also how many shall I need? A. We know of no perfect substitute for a glass cell, but sometimes wooden cells coated with pitch are used. Such cells thoroughly soaked in paraffine have also been used. 5. If I charge from 110 volt current, could I use 50 volt lamps? Would the battery charge last longer for the same number of hours than if I used 110 volt lamps? A. The battery charge undoubtedly lasts longer when used in connection with high voltage lamps. 6. Could I charge the battery with my little eight-light dynamo 50 volts, provided I ran it long enough through the daytime? A.

(4964) A. B. C. asks how to make court Levis, has discovered a process to temper that metal like plaster. A. Isinglass (best, genuine), 1 ounce; water, 1/2 pint. Dissolve by heating them together in a covered vessel, strain the solution, and when only lukewarm add (4959) S. D. L. writes: I am using for a to itgradually, but quickly, a mixture formed of rectified alcohol 2 fluid ounces, tincture of benzoin 2 fluid ounces vas; the gas is made from chlorate of potash and black Apply this composition (still warm) by means of a flat camel hair brush, or any appropriate "spreader," to the surface of silk, or sarcenet, stretched in a frame, repeatto leaving the remaining gas in the bag, to be used at ing the application as soon as the preceding coating is some future time? Does it injure the bag, or does the dry, and again as often as necessary (six to twelve times). gas deteriorate? A. The gas bag is not liable to deteriorate to any appreciable extent, and the gas will keep face a "finishing coat" with a solution of Chio turpentine, 1 ounce; dissolved in tincture of benzoin, 2 fluid ounces. Tincture of balsam of Peru, or of styrax, may inform me what head or fall of water is required to raise be substituted for the tincture of benzoin, and a few teenths inch respectively? Please give rule for finding space from 39° of temperature will have a pressure of water with a ram say fifty feet over a distance of twelve drops of essence of ambergris or of musk may be added horse power of this wheel. If above wheel were 18 inches about 5,000 pounds per square inch and temperature of hundred feet, water supply unlimited? A. Rams work finishing coat, and others apply it to the unprepared side of the silk, by which the plaster is rendered partially waterproof, but the appearance of its exposed surface injured. Care should be taken that the first two or three applications of the gelatine composition do not sink into is not sold, but rented. 2. Would it be practicable to the silk, so as to appear on the right side, which will not support a light wire for a vibrating telephone, from a be the case if it be only sufficiently warm to remain A. Yes. 3. What good transmitters are on the market heavier wire over it, by loops of light wire at proper liquid, and be applied very thinly and rapidly, and with a light stroke of the brush or spreader. Use various colored silks, if desired. From the "Scientific American

> (4965) W. M. says: 1. Suppose a quantity of air be compressed to obtain a pressure of 1.000 pounds per square inch; what amount of heat will be generated also at 2,000 pounds? A. Air suddenly compressed to a thousand pounds pressure becomes red hot and sets fire to combustibles within the cylinder. This

pressure? A. The thickness of cylinder depends upon its size and the material. For cast iron a thickness of shell equal to one-sixth of the diameter. For bronze or copper one-eighth for moderate sizes. 3. Will the amount of heat generated be the same, whether the air be suddenly or gradually compressed? Where and at what cost could I obtain an air pump for such pressure? A. The heat generated will be the same, but will be partially absorbed by the cylinder in slow compression.

(4966) S. A. B. asks how to make a solution of Prussian blue that may be applied to unsized paper, so that it will not rub off, but will immediately be dissolved by water. A. Precipitate ferric chloride with excess of potassium sulphate. Filter the precipitate out and pour hot water through the filter paper. T is will dissolve and give a solution of soluble Prussian blue. Applied to paper, it will probably be somewhat mordanted, so as to dissolve out with some difficulty.

TO INVENTORS,

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AND EACH BEARING THAT DATE.

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Rug exterminator, S. Bartholomew. 495,654	Harvester reel mechanism, A. Stark
Buildings, construction of, E. V. Johnson 495,634	Howe 4
Brake mechanism, R. O. Wood. 489,711 Bridge, J. W. Balet	Hay carrier, J. W. & J. W. Provan. Hay press, McNeill & Huck Hay stacker, U. H. Palmer. Heater. See Lamp heater. 4
Button, I. G. Platt 495,754 Button attaching machine, I. G. Platt. 495,753 Cable grip, H. A. Shipp. 495 843 Camera. See Photographic camera.	Hay stacker, U. H. Palmer
Cable grip, H. A. Shipp	Heater. See Lamp heater.
Camera. See Photographic camera.	Heating and ventilating rooms, apparatus for, W. S. Stuyvesant
Cans. opening attachment for tin, L. Fischbach. 495,669 Car and air brake coupling, combined, W. Mable. 495,562 Ca attachment, railway, H. H. thorne. 495,801 Car brake, Hanmore & McLean. 495,789	Heating and ventilation system, J. Scherffius
Casttachment, railway, H. He thorne	Hemmer, S. Laskey
Car coupling, G. Beekman 495,655	Hermetically closing receptacles, means for, L. A. Bonnamy Hinge seats, device for marking and gauging, W. R. Shepard Hod elevator, C. Carlson Honeycomb, device for casting bilateral artificial, P. Warnstorf
Car coupling, J.C. Bishop	Hinge seats, device for marking and gauging, W.
Car coupling, J. W. Brook	R. Shepard
Car coupling, Brush & Fayette 495,779	Honeycomb, device for casting bilateral artificial.
Car coupling, J. E. Catterson 495,580	D Warnetons
Car coupling, D. D. Green	P. Warustori 4
Car counting. W. H. Grove. 495.797	P. Warnstorf Honey shipping case, T. McManus. 4 Hook See Cheek beek
Car coupling, W. H. Grove	Honey shipping case, T. McManus
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,889 Car coupling, A. H. Hopkins. 495,889	F. Warustoff Honey shipping case, T. McManus. Hook. See Check hook. Horsesboe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson.
Car coupling, W. H. Grove. 495,787 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins 495,889 Car coupling, M. Q. Keith 495,481 Car coupling, W. Mable 495,501	F. Warnston Honey shipping case, T. McManus. Hook. See Check book. Horseshoe nall machine, C. H. Yarington. Hose cauping. A. W. Jackson. Hose reel, E. M. Birdsall. Hub. yehiele. P. F. Rachal.
Car coupling, W. H. Grove. 495,787 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins 495,889 Car coupling, M. Q. Keith 495,481 Car coupling, W. Mable 495,501 Car coupling, B. McMonagle. 495,501	Honey Shipping case, T. McManus. Hook. See Check hook. Horsesboe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson. Hose cele, E. M. Birdsall. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz.
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,889 Car coupling, M. W. Keith 495,493 Car coupling, W. Mable 495,508 Car coupling, B. McMonagle 495,508 Car coupling, L. Moore 495,508 Car coupling, R. Wilson 495,508	F. Warnston Honey Shipping case, T. McManus. Hook. See Check hook. Horseshoe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson Hose reel, E. M. Birdsall. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid.
Car coupling, W. H. Grove. 495,737 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,889 Car coupling, M. V. Keith. 495,493 Car coupling, W. Mable. 495,501 Car coupling, B. McMonagie. 495,501 Car coupling, L. Moore. 495,508 Car coupling, R. R. Wilson 495,509 Car, hand, J. M. "Faft 495,529	F. Warustoff Honey Shipping case, T. McManus. Hook. See Check hook. Horseshoe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson. Hose reel, E. M. Birdsall. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, Harmon, & Rhodes.
Car coupling, W. H. Grove. 495,737 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,889 Car coupling, M. Q. Keith. 495,493 Car coupling, W. Mable. 495,501 Car coupling, B. McMonagie. 495,598 Car coupling, L. Moore. 495,598 Car coupling, R. R. Wilson 495,599 Car, hand, J. M. Taft 495,529 Car platform, railway, H. D. Arkland 495,529 Car start attachmant Busines A. Marketing 495,682	Honey Shipping case, T. McManus. Honey Shipping case, T. McManus. Hook. See Check hook. Horsesboe nali machine, C. H. Yarington. Hose red, E. M. Birdsail. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, Harmon & Rhodes. Insulated pipe joint or coupling, T. J. Pierce.
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,893 Car coupling, M. W. Kelth. 495,403 Car coupling, W. Mabb. 495,508 Car coupling, B. McMonagie. 495,508 Car coupling, L. Moore. 495,538 Car coupling, L. Wore. 495,539 Car, band, J. M. Taft. 495,529 Car pland, J. M. Taft. 495,652 Car safety attachment, Bustin & McMackin. 495,652 Car side bearing, W. W. Wooll 485,628	Honey Shipping case, T. McManus. Honey Shipping case, T. McManus. Hook. See Check hook. Horsesboe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson Hose reel, E. M. Birdsall. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, Harmon & Rhodes. Insulated pipe joint or coupling, T. J. Pierce. Insulator, L. Hills. Ironing table, J. Mooers.
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,893 Car coupling, W. Mable. 495,508 Car coupling, W. Mable. 495,508 Car coupling, L. Moore. 495,528 Car coupling, L. Moore. 495,528 Car coupling, R. W. Wolm. 495,529 Car, hand, J. M. Taft. 495,529 Car platform, railway, H. D. Arkland 496,652 Car safety attachment, Bustin & McMackin. 495,628 Car side bearing, W. W. Wooll 495,628 Car stafter and brake, H. Duys, Jr. 495,725 Car stafter and brake, H. Duys, Jr. 495,725	F. Warnstoff F. Warnstoff Honey Shipping case, T. McManus. Hook. See Check hook. Horseshoe nail machine, C. H. Yarington. Hose coupling, A. W. Jackson Hose reel, E. M. Birdsall. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, Harmon & Rhodes. Insulated pipe joint or coupling, T. J. Pierce. Insulated pipe joint or coupling, T. J. Pierce. Insulated pipe joint or coupling, T. J. Pierce. Joint. See Insulated pipe joint.
Car brake, Hanmore & McLean	F. Warnstoff Honey Shipping case, T. McManus. Honey Shipping case, T. McManus. Hook. See Check hook. Horsesboe nali machine, C. H. Yarington. Hose reel, E. M. Birdsail. Hub, vehicle, P. F. Rachal. Huller and scourer, combined, A. F. Hinz. Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, F. Brunbauer. Injector, Harmon & Modes. Insulated pipe joint or coupling, T. J. Pierce. Insulator, L. Hills. Journal base, J. Mooers. Journal bearnsulated pipe joint. Journal bearnsulated pipe joint. Journal bearnsulated.
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,889 Car coupling, M. Q. Keith 495,403 Car coupling, W. Mabb. 495,508 Car coupling, W. Mabb. 495,508 Car coupling, L. Moore. 495,598 Car coupling, L. Moore. 495,598 Car coupling, L. Wilson 495,539 Car, hand, J. M. Taft 495,529 Car, hand, J. M. Taft 495,520 Car safety attachment, Bustin & McMackin. 495,652 Car safety attachment, Bustin & McMackin. 495,652 Car starter and brake, H. Duys, Jr. 495,753 Car, stock, B. C. Hicks 495,536 Car, stock, B. C. Hicks 495,539 Cars, stock, A. P. Powell. 495,939 Cars, system of distributing steam for heating	Knife. See Excelsior knife.
Car coupling, W. H. Grove	Knife. See Excelsior knife.
Car coupling, W. H. Grove. 495,737 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins 495,889 Car coupling, W. Mable 495,501 Car coupling, W. Mable 495,501 Car coupling, B. McMonagie. 495,562 Car coupling, L. Moore. 495,563 Car coupling, L. Moore. 495,563 Car coupling, L. Wilson 495,563 Car coupling, R. Wilson 495,563 Car platform, railway, H. D. Arkiand 495,622 Car platform, railway, H. D. Arkiand 495,622 Car side bearing, W. W. Wooll 495,533 Car side bearing, W. W. Wooll 495,533 Car stock, B. C. Hicks 495,533 Car, stock, B. C. Hicks 495,533 Car, stock, A. P. Powell 495,532 Car, system of distributing steam for heating railway, C. B. Grim. 495,612 Card clothing, M. Duesberg-Delrez. 495,614 Carpet fastener. H. Solt 495,844 Carpet fastener. H. Solt 495,844	Knife. See Excelsior knife.
Car coupling, W. H. Grove. 495,797 Car coupling, T. H. Hawick. 495,487 Car coupling, A. H. Hopkins. 495,487 Car coupling, M. Q. Keith 495,483 Car coupling, W. Mabb. 495,508 Car coupling, W. Mabb. 495,508 Car coupling, L. Moore. 495,598 Car coupling, L. Moore. 495,598 Car coupling, L. Wilson 495,539 Car, hand, J. M. Taft 495,529 Car, hand, J. M. Taft 495,520 Car safety attachment, Bustin & McMackin. 495,652 Car safety attachment, Bustin & McMackin. 495,682 Car stack bearing, W. W. Wooll 1 Car starter and brake, H. Duys, Jr. 495,738 Car, stock, A. P. Powell. 495,538 Car, stock, A. P. Powell. 495,538 Car, stock, A. P. Grim. 495,538 Car, stock, D. Grim. 495,632 Cars, system of distributing steam for heating railway, C. B. Grim. 495,612 Card clothing, M. Duesberg-Delrez. 495,634 Carptef fastener, H. Solt. 495,476	Knife. See Excelsior knife.
Cars, system of distributing steam for heating railway, C. B. Grim. 495,612 Card clothing, M. Duesberg-Deirez. 495,634 Carpet fastener, H. Solt. 495,844 Carriage, baby, Dietrich & Habicht. 495,476 Cart, Butts & O'Marra. 485,722	Knife. See Excelsior knife.
Cars, system of distributing steam for heating railway, U. B. Grim. 495.612 Card clothing, M. Duesberg-Deirez 485.634 Carpet fastener, H. Solt. 495.434 Carriage, baby, Dietrich & Habicht. 495.476 Cart, Butts & O'Marra 495.722 Case. See Honey shipping case.	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Bux- torf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamn, electric, T. Hudson.
Cars, system of distributing steam for heating railway, U. B. Grim. 495.612 Card clothing, M. Duesberg-Deirez 485.634 Carpet fastener, H. Solt. 495.434 Carriage, baby, Dietrich & Habicht. 495.476 Cart, Butts & O'Marra 495.722 Case. See Honey shipping case.	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Bux- torf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamn, electric, T. Hudson.
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Cars, system of distributing steam for heating railway, U. B. Grim. 495.612 Card clothing, M. Duesberg-Deirez 485.634 Carpet fastener, H. Solt. 495.434 Carriage, baby, Dietrich & Habicht. 495.476 Cart, Butts & O'Marra 495.722 Case. See Honey shipping case.	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Bux- tori. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. & L. C. Beauvalet. Lamp, electric arc, E. & L. C. Beauvalet. Lamp, electric arc, W. A. Turbayne. Lamp heater, W. Masters.
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Cars, system of distributing steam for heating railway, U. B. Grim	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Buxtorf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. & L. C. Beauvalet. Lamp, electric arc, E. E. & L. C. Beauvalet. Lamp, electric arc, E. Adams. Lamp, electric arc, F. T. Schmidt. Lamp, electric arc, W. A. Turbayne. Lamp heater, W. Masters. Lamp holder, incandescent electric, L. C. Whitney, Jr. Lamp, Incandescent electric. E. W. Applegate. Land roller, E. W. Farr Land roller and harrow, C. Storia. Lanten, railway, I. R. Thomas. Latch, J. M. Coffield.
Cars, system of distributing steam for heating railway, U. B. Grim	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Buxtorf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. & L. C. Beauvalet. Lamp, electric arc, E. E. & L. C. Beauvalet. Lamp, electric arc, E. Adams. Lamp, electric arc, F. T. Schmidt. Lamp, electric arc, W. A. Turbayne. Lamp heater, W. Masters. Lamp holder, incandescent electric, L. C. Whitney, Jr. Lamp, Incandescent electric. E. W. Applegate. Land roller, E. W. Farr Land roller and harrow, C. Storia. Lanten, railway, I. R. Thomas. Latch, J. M. Coffield.
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Cars system of distributing steam for heating cars system of distributing steam for heating cars and system of distributing steam for heating 495,612 Cardet dothing, M. Duesberg-Delrez. 495,642 Carpet fastener, H. Soit	Knife. See Excelsior knife. Knife, M. L. Hawks. Kniting machine yarn feeding device, E. Buxtori. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. & L. C. Beauvalet. Lamp, electric arc, E. E. & L. C. Beauvalet. Lamp, electric arc, E. T. Schmidt. Lamp, electric arc, W. A. Turbayne. Lamp heater, W. Masters. Lamp heater, W. Masters. Lamp holder, incandescent electric, L. C. Whitney, Jr. Lamp, Incandescent electric. E. W. Applegate. Land roller, E. W. Farr Land roller, F. W. Farr Land roller, E. W. Farr Land roller, F.
Cars, system of distributing steam for heating railway, C. B. Gim. 495,612 Card clothing, M. Duesberg-Deirez. 495,634 Carpet fastener, H. Soit. 495,634 Cartage, baby, Dietrich & Habieht. 495,434 Cartage, baby, Dietrich & Habieht. 495,436 Cart, Butts & O'Marra. 495,772 Case. See Honey shipping case. Cash drawer and recorder, C. W. Weiss. 495,772 Cash register money drawer, E. N. Foote. 495,674 Cash register money drawer, E. N. Foote. 495,674 Cash registering machine, Range & Foote. 495,634 Casher, H. Russell. 485,651 Casting machine, type, J. G. Pavyer. 485,732 Celling, metallic, A. Friedley. 485,635 Check hook, W. Eckert. 485,652 Chiumney attachment, S. R. Heberling. 485,637 Chiristmas tree candle holder, H. Schlueter. 485,641 Churn, H. Drymon. 485,732 Cigarette machine, R. Hardie. 485,532 Ciamp. See Saw brazing clamp. Ciotbes pin, J. H. Russell. 485,651 Ciutch, E. Shaw. 485,662	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Bux- torf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. E. & L. C. Beauvalet. Lamp, electric arc, E. T. Schmidt. Lamp, electric arc, W. A. Turbayne. Lamp beater, W. Masters. Lamp bolder, incandescent electric, L. C. Whitney, Jr. Lamp, Jr. Lamp, Arc, W. Masters. Lamp heater, W. Masters. Lamp heater, W. Masters. Lamp holder, incandescent electric, L. C. Whitney, Jr. Lamp, Arc, W. A. Thomas. Land roller, E. W. Farr Land roller, B. W. Farr Land, Sand, W. M. C. Nichols. Latch, J. M. Coffield. Latch, gravity, F. O. Miller. Lath, Sheathing, M. C. Nichols. Lathe, polyhedral, M. Rul Lathetool holder, Barraclough & Rhodes. Leather turning machine, Q. W. Hooth.
Cars, system of distributing steam for heating railway, C. B. Gim. 495,612 Card clothing, M. Duesberg-Deirez. 495,634 Carpet fastener, H. Soit. 495,634 Cartage, baby, Dietrich & Habieht. 495,434 Cartage, baby, Dietrich & Habieht. 495,436 Cart, Butts & O'Marra. 495,772 Case. See Honey shipping case. Cash drawer and recorder, C. W. Weiss. 495,772 Cash register money drawer, E. N. Foote. 495,674 Cash register money drawer, E. N. Foote. 495,674 Cash registering machine, Range & Foote. 495,634 Casher, H. Russell. 485,651 Casting machine, type, J. G. Pavyer. 485,732 Celling, metallic, A. Friedley. 485,635 Check hook, W. Eckert. 485,652 Chiumney attachment, S. R. Heberling. 485,637 Chiristmas tree candle holder, H. Schlueter. 485,641 Churn, H. Drymon. 485,732 Cigarette machine, R. Hardie. 485,532 Ciamp. See Saw brazing clamp. Ciotbes pin, J. H. Russell. 485,651 Ciutch, E. Shaw. 485,662	Knife. See Excelsior knife. Knife, M. L. Hawks. Knitting machine yarn feeding device, E. Bux- torf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes. Lamp, electric, T. Hudson. Lamp, electric arc, C. F. Adams. Lamp, electric arc, E. E. & L. C. Beauvalet. Lamp, electric arc, E. T. Schmidt. Lamp, electric arc, W. A. Turbayne. Lamp beater, W. Masters. Lamp bolder, incandescent electric, L. C. Whitney, Jr. Lamp, Jr. Lamp, Arc, W. Masters. Lamp heater, W. Masters. Lamp heater, W. Masters. Lamp holder, incandescent electric, L. C. Whitney, Jr. Lamp, Arc, W. A. Thomas. Land roller, E. W. Farr Land roller, B. W. Farr Land, Sand, W. M. C. Nichols. Latch, J. M. Coffield. Latch, gravity, F. O. Miller. Lath, Sheathing, M. C. Nichols. Lathe, polyhedral, M. Rul Lathetool holder, Barraclough & Rhodes. Leather turning machine, Q. W. Hooth.
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Coin shooting machine, Haydon	& Vail	495,734	Lo
Coin shooting machine, Haydon Collapsible and folding boat, Ga Combination lock, J. Ringen Comminuter, hollow roll, J. M. Commode apparatus, night, O.F. Commutator for dynamo-elect	mole & Allen	495,549 495,911 495,665	Lu Lu
Commode apparatus, night, O. H. Commutator for dynamo-elect	I. Ebert or	495,546	Lu Ma
Commutator for dynamo-elect motors, B. S. Paterson Cooking apparatus, W. T. Martic Cooler. See Milk cooler. Copying book, manifold, H. Sche Corn popper, W. D. Winfield Corn popping machine, R. W. H. Cotton scoop, W. C. Brown Coupling. See Car coupling. coupling. Hose coupling. Thill coupling.	n	495,821	Ma Ma Me
Copying book, manifold, H. Scho Corn popper, W. D. Winfield	eckelhoff 495,521,	495,522 495,8 64	Me Me
Cotton scoop, W. C. Brown Coupling. See Car coupling.	Car and air brake	495,579	Mi Mi
Cover for household utensile A	Schott	105 694	Mı. Mi
Crane, traveling, J. B. Anderson Crank shafts, machine for bendi Crate, egg, C. T. Belt	ing, F. Hart	495,574 495,631	Mil
Cultivating sugar beets, machin	e for W. V. Gaf-	495,794 495,901	Mi Mo Mo
Cultivator and planter, J. W. M. Curling tool, B. Westervelt	ullins	495,901 495,765 495,780	Mo Mo
Curling tool, B. Westervelt Current wheel, W. F. Buckmann Currycomb, M. J. Bagley Cutter. See Thread cutter.		495,871	Mu Mu
Cycle, C. E. Hadley Dam, flexible, L. Debarle Dandy roll. Young & Davis		495,788 495,573	Mu Mu Ne
Disinfecting apparatus, S. G. Pl Display box, F. Fear	umb	495,563 495,949	Ne Nu Nu ●il
Dam, flexible, L. Debarle. Dandy roll, Young & Davis. Disinfecting apparatus, S. G. Pl Display box, F. Fear. Draught regulator, M. F. Campt Dress shield, E. Pickhardt. Drill. See Grain drill. Brilling mechine, electric roter.	- D M T	495,512	Ore
Drill. See Grain drill. Drilling machine, electric rotar, Drums or pulleys, means for Grist. Egg beater, A. C. Albrecht. Egg poacher, C. T. Gott. Elastic woven fa bric, Stokes & Electric lighting system, H. Ed Electric machine, dynamo, T. L. Electric motor and driven mach	supporting, B. W. 495,884,	495,738 495,885	Or Or
Egg beater, A. C. Albrecht Egg poacher, C. T. Gott	Hudgon	495,925 495,796 495,762 495,932	Org ●v
Electric lighting system, H. Edr Electric machine, dynamo, T. L	nunds, Jr	495,932 495,538	Pa
Electric motor and driven mach FullerElectric motor or generator. W.	ine, combined, R. Koedding	495,547 495,941	Pa Pa Pa
Fuler. Electric motor or generator, W. Electricity, ground generator of Electrolytic apparatus, G. O. R. Elevator. See Grain elevator Passenger and freight elegators	M. Emme	495,582 495,600	Pa Pa
Passenger and freight ele-	vator. Tobacco	105.554	Do
elevator, W. H. Kern Elevator, A. Larsen Elevator, O. R. Olsen Elevator or conveyer, M. M. She		495,554 495,813 495,598	Per Per Per Per Ph
Elevator or conveyer, M. M. She Engine. See Steam engine.	ellaberger	495,685	Ph Pia
Excelsior knife, H. C. Cloyd Extension table, J. Couch		495,879 495,723	Pia Pia Pia Pia Pia
Fabric. See Elastic woven fabr Fan, W. H. Youngs Fan, rotary J. M. Seymour	16.	495,619 495,525	
Engine. See Steam engine. Excavator, hydraulic, A. Fairch Excelsior knife, H. C. Cloyd Extension table, J. Couch Fabric. See Elastic woven fabr Fan, W. H. Youngs Fan, rotary, J. M. Seymour. Fastening, J. Samson. Fastening device, T. Westermai Faucet and vent bung and bush Faucet attachment, bung, and D. Beebe	n	495,710 495,537 495,719	Pla Pla Pla
Faucet attachment, bung, and D. Beebe.	bush, combined,	495,718	Pic Pic Po
D. Beebe. Feed trough, G. W. Dunks. Fence machine, wire, P. Trick. Fence machines, electric weld	er for wire, J. D.	495,666 495,533	Po Po Po
Fence post, H. Brown Fence post driving machine, E.	Mohn	495,626 495,471 495,747	Po
rence machines, electric weld Curtis	ching and remov-	495,873	Pr
Fibrous substances, evening me chines for opening, carding, A. Davis	and drawing, H.	495.609	Pri Pr
chines for opening, carding, A. Davis Fifth wheel, D. A. Piecker Fire escape, J. Martin. Fire escape, J. Martin. Fire escape, projectile for, J. M. Firearms, breech bolt for, K. Ki Fireplace, W. R. Dawson Fishing rod and reel, G. H. New Floors, banger for laying fireprice. Flower pot and stand, Holt & K Flue for buildings, A. Zerban Fluid distribution apparatus, J. Flush tank for closets, P. Falkir Folding apparatus, sheet, S. G.	fartin 495,5 6 3,	495,833 495,504 495,505	Pr Pu Pu
Firearms, breech bolt for, K. Ki Fireplace, W. R. Dawson	nka	495,741 495,786	Pu
Floors, hanger for laying strepro Flower pot and stand, Holt & K	of, H. Graham	495,672 495,808	Pu Fu Pu Pu
Flue for buildings, A. Zerban Fluid distribution apparatus, J.	McNaughton.	495,648 495,904 495,611	Ra Ra Ra
Folding apparatus, sheet, S. G. Ernit pitter, E. W. Weare	Goss	495,482 495,860	Ra
Folding apparatus, sheet, S. G. Fruit pitter, E. W. Weare. Funnel and strainer, combined, Fur from petts, machine for cu Sr., et al.	tting, E. Beesley,	495,635 495,470	Ra
calcining furnace. Ultrama	rine furnace.		Ra Ra Ra
		495,509	Ra Ra Ra
Game apparatus, C. Neilson Game apparatus, H. C. Smith Garment hanger, W. O. Bement Garment supporter, F. Kern Gas apparatus, L. & L. Stevens, Gas generator and burner, hy. Edwards	· · · · · · · · · · · · · · · · · · ·	495,926 495,893	Ra
Gas generator and burner, hyd Edwards	drocarbon, E. A.	495,726	Ra Ra Ra
Gog lighter and extinguisher t	time F. A. Lang-	•	Re Re
with Gas manufacturing apparatus, I Gear cutting machine, D. C. Wo Generator. See Gas generator. Girder breging tie ber I M. Cor	odward	495,9 6 0 495, 8 66	Re Re Re
Grider bracing tie bar, J. M. Cor Grain drill, A. J. Fisher Grain elevator, Flagg & Guymoi Grain mixing device, F. Kauche Guu, breakdown breech-loading Guns, discharging valve adap Winne	neii	495,785 495,670 495,69 8	Ro Ro Ro
Grain mixing device, F. Kauche Gun, breakdown breech-loading Guns, discharging valve adam	g, G. A. Sachs ted to air. T. J.	495,590 495.639	Ro Ru
Gut cleaning machine, C. C. Pos	t	495,514	Sa Sa
gutta-percha from the leaves gutta-fercha tree, process for the extraction of, D. Rig Hair drying apparatus, J. Mach Hamme and trace connector, W. Hammock stretcher and awni bined, V. P. Travers	of and apparatus	495, 757 495, 558	Sas Sas
Hair drying apparatus, J. Mach Hame and trace connector, W. Hammock stretcher and awni	B. Nichols ng support. com-	495,558 495,560	Sar Sar Sar
bined, V. P. Travers Hanger. See Garment hanger.	inger. Window	495,532	Sar Sar Sar
Harrow W Williams		405 094	Sar
Harvester, corn, J. Simser Harvester reel, Whiteley & Per Harvester reel mechanism, A. S Hat pouncing machines, pounci	rigo stark ng head for, J. B.	495,862 495,846	Sca Sca Sea
Hay carrier, J. W. & J. W. Prov	an	495,491 495,756 495,826	Ser Ser
Hat pouncing machines, pounci If ove	g gnnarotus for	495,831	Sh
W. S. Stuyvesant	T Saharffus	495,528 495,567	Sh
Hermetically closing receptacl	les, means for, L.	495,814	Sid
	and gauging, W.		Sig
Honeycomb, device for casting P. Warnstorf Honey shipping case, T. McMan			Sig Sla Sle
Hook. See Check hook.	.		Sp Sp
Hose coupling, A. W. Jackson Hose reel, E. M. Birdsall		495,890 495,720	Sp
Huller and scourer, combined, A. Scheid.	A. F. Hinz.	495,803 495,711	Sta
Horseshoe nail machine, C. H., Hose continuing, A. W. Jackson. Hose reel, E. M. Birdsall. Hub, vehicle, P. F. Rachal Huller and scourer, combined, Hydrant, A. Scheid. Injector, F. Brunbauer. Injector, Harmon & Rhodes. Insulated pipe Joint or coupling Insulator, L. Hills. Ironing table, J. Mooers	. T. J. Pierce	495,778 495,486 495,513	Ste
Joint. See Insulated nine joint.		495,552 495,680	Ste
Keyhole guard, E. Riley.	• · · · · · · · · · · · · · · · · · · ·	495,919 495,517	Ste
Knife, M. L. Hawks Knitting machine yarn feeding	ng device, E. Bux-	495,699	Sto
Ladder, T. A. Strohm Lamp, bicycle, Bown & Hughes		495,472 495,920 495,661	Sto
torf. Ladder, T. A. Strohm Lamp, bicycle, Bown & Hugbes Lamp, electric, T. Hudson Lamp, electric arc, C. F. Adams Lamp, electric arc, F. T. Schmic Lamp, electric arc, F. T. Schmic Lamp, electric arc, W. A. Turbi Lamp holder, w. Masters Lamp holder, incandescent ele nev Jr.	Rogawalot	495,676 495,649	Sto
Lamp, electric arc, F. T. Schmid Lamp, electric arc, W. A. Turba	lt ayne	495,601 495,643	St
Lamp heater, W. Masters Lamp holder, incandescent ele ney, Jr	etrie, L. C. Whit-	. 495,559 . 495,951	Su Sw
Lamp noter, incandescent electric. E. Lamp, hcandescent electric. E. Land roller, E. W. Farr. Land roller and barrow, C. Stor Lantem, railway, I. R. Thomas Latch, J. M. Coffield. Latch, grayity, F. O. Miller.	W. Applegate	495,933 495,933	Sw
Lantern, railway, L. R. Thomas Latch, J. M. Coffield.		495,530 495,624	Ta Ta
Lath, sneathing, M. C. Nichols.		490,500	Ta Te
Latne tool holder, Barraclough Lend, manufacturing white, Ho Leather turning machine. O. W.	or Knodes nman & Vulliez . Booth	495,576 495,490 495,776	Th Th Th
Lathe, polyhedral, M., Rul. Lathe tool holder, Barraclough Leud, mannflacturing white, H. Leather turning machine, Q. W. Life-saving device or fender, W. Lightning arrester, E. Thomsor Lock. See Combination lock. Locamicities	7. E. Holmes 1495,714	495,632 495,853	Ti Ti
Local	upplying purified	495 496	Ti

495,734 495,549 495,911	Looms, pneumatic let-off mechanism for, F. Stiner Lubricator. See Axle lubricator.	495,847	To To Tr
495,665 495,546 495,561	Looms, pneumatic let-off mechanism for, F. Stiner. Lubricator. See Axle lubricator. Lubricator, J. C. Mackintosh. Lubricator, A. W. Walker. Magnet, field, F. A. Perret Mallet, G. F. Barney. Matrix making machine, C. L. Redfield Measuring and delivering apparatus, liquid, Benton & Keyes.	495,819 495,535 495,562 495,607	Ti
495,821 495,522	Matrix making machine, C. L. Redfield Measuring and delivering apparatus, liquid, Benton & Keyes	495,835 495,657	Tı
495,864 495,886 495,579	ton & Keyes. Mechanical movement, G. Beekman. Metallic surfaces, coating, H. Giessler. Micrometer rauge, F. Spalding. Milk cooler, C. A. Clark Milk tester, centrifugal, Augustenborg & Han-	495,656 495,629 495,915 495,877	
495,684	Milk tester, centrifugal, Augustenborg & Han- sen. Mill. See Pugging mill. Windmill.	495,653	Tr Tr
495,574 495,631 495,773	sen Mill. See Pugging mill. Windmill. Millstone mounting, H. C. Shaw Mining apparatus, Placer, M. D. Platner Mixing apparatus, R. Smith. Moulding machine, A. L. Teetor	495,832 495,603 495,570	T T
495,794 495,901 495,765 495,780	Moulding machine, A. L. Teetor. Motor. See Electric motor. Vehicle motor. Mower and tedder, combined, K. & F. H. Jackman. Mower field or lewn D. M. Miller	495,677 495,825	T: UI
495,732	man Mower and tedder, combined, K. & F. H. Jack- man Mower, field or lawn, D. M. Miller Mowing machine, J. Dain, Jr Music book or folio, W. H. Ayres- Music leaf bolder, Wood & Wilkinson. Music leaf turner, J. W. Paschall Net for horses, fly, J. Finley Nut lock G. E. Hain.	495,475 495,870 495,865	U: V: V:
495,788 495,573 495,563 495,949	Music leaf turner, J. W. Paschall. Net for horses, fly, J. Finley. Nut lock, G. E. Hain. Nut lock, W. M. Sayre	495,599 495,730 495,551 495,520	V
495,473 495,512	Peniston	495,509	V
495,885 495,925	Ore roasting and calcining furnace, R. C. Greer Ore separator, centrifugal, O. B. Peek. Ore separator, magnetic, G. G. Crosby Ores, lixiviating, S. R. Whitall Organ, mouth, R. Seydel Overflow for bath Or laundry tubs, B. S. Giles Packing box C. B. Overbaugh.	495,608 495,715 495,842	V
495,796 495,762 495,932 495,538	Packing box, bottle, Vance & Leaver	495,534	V
495,547 495,941 495,582	Pan. See Bake pan. Paper bag holder, O. M. Stiehl	495,605	V
495,600	Paper for toilet or other purposes, apparatus for holding and issuing. J. M. Keep Paper making machine, Sho rook & Martin Passenger and freight elevator, W. W. Renwick Pan grat pencil holder A. W. Coffin.	495,892 495, 9 50 495,616	V
495,554 495,813 495,588	Pen, fountain, L. B. Woolfolk. Perimeter, E. B. Meyrowitz. Phonograph componented mechanism I H	495,647 495,506	W
495,685 495,791 495,879	Ling. Photographic camera, R. F. Rice Piano J. W. Macy. Piano forte action, G. Lyon Pin. See Clothes pin.	495,557 495,566 495,678 495,745	W
495,879 495,723 495,619	Pipe coupling, flexible steam. J. E. Marble	495,896	W
495,525 495,710 495,537 495,719	Roberts. Planter J. M. King. Planter attachment, corn, Wallace & Osborn Plow, R. G. Rivero	495,495 495,858 495,837	W
495,718 495,666 495,533	Plow and harrow, combined, G. W. Lee. Plow attachment, W. W. Speer. Pocket, safety watch, H. J. Martin. Post. See Fence post.	495,895 495,916 495,820	w
495,626 495,471 495,747	Post driver, S. G. Harris Pot. See Coffee pot. Flower pot. Potato separating and grading machine, A. J. McDonogh	495,800 495,945	W
495,873	Press. See Baling press. Hay press. Stamping press. Printing press delivery apparatus, S. G. Goss,	105 100	W
495.609 495,833 495,504 495,505	Propeller, ship's, A. T. Elford. Propellers, apparatus for moulding, L. His. Propellers, apparatus for moulding, L. His. Pugging mill, W. H. Hall Pulley, W. Muron. Pulp strainer, J. H. Baker et al. Pump, J. W. Clayton Pump, centrifugal, F. Seitz. Punch, check, W. F. Judy. Puzzle, C. I. Dayton Races, time indicator and signal for, A. Bartlett. Rack. See Broom rack.	495,727 495,804 495,485	W
495,505 495,741 495,786 495,827	Pulley, W. Muron. Pulp strainer, J. H. Baker et al. Pump, J. W. Clayton. Pump, centrifugal, E. Seitz.	495,749 495,769 495,878 495,760	Zi
495,672 495,808 495,648 495,904	Punch, check, W. F. Judy Puzzle, C. I. Dayton. Races, time indicator and signal for, A. Bartlett	495,553 495,724 495,770	Zi
495,611 495,482 495,860	Rail circuit closing contact, F. Von Hefner-Alteneck.	495,674	
495,635 495,470	LAST	430 433	Be
495,509	Railway guard, el evated, J. H. Sullivan	495,850 495,943 495,938 495,691	Bi Bi Ca
495,527 495,926 495,893 495,917	Railway crossings, danger signal for, J. S. Savage, Jr. Railway, elevated bicycle, G. F. Brott Railway guard, elevated, J. H. Sullivan Railway rails, guard for adjacent, H. Litner. Railway signal, auto-mechanical, G. J. Cady. Railway tie plate, W. W. Holmes. Railway ties, etc., composition of matter for, W. P. Emery. Railway trolley, electric, W. Duncan. Railways, crossover switch for electric, F. B. Rae Rake or fork, M. H. Rison.	495,807 495,581	Ca
495,726 495,556	Railways, crossover switch for electric, F. B. Rae Rake or fork, M. H. Rison Reel. See Harvester reel. Hose reel. Refrigerator, Holt & Howson.		
495,9 0 0 495,866	Register. See Cash register.		Co
495,785 495,670 495,698 495,590	Resms and their residues, treating crude, G. Col Roller. See Land roller. Log roller. Rolling mill appliance, H. Rigby	495,683 495,828 495,875	C
495,639 495,767 495,514	Rooting, metal, L. S. Bonbrake. Rudders, metal, L. S. Bonbrake. Sandpapering machines, block setting rack for, C. L. Ruebs. Sandpapering machines, block setting rack for, C. L. Ruebs. Sab fastener, B. Bernstein. Sash fastener, C. Noumann. Sash holder, H. E. Willer. Saw attachment, Gallagher & Johnson. Saw dressing device, J. A. McRanolds. Saw gride and cooler, band, E. G. Pake. Saw, hand, T. S. Disston. Saw, insertible tooth, J. E. Emerson. Scale, recording, R. McFarlane. Scale, sack, L. L. Maxhimer. Scale, sack, L. L. Maxhimer. Secondary bacters, L. B. Rowley. Separator. See Ore separator. Sewage, treating, J. J. Powers.	495,623 495,908	F
495, 757 495, 558 495, 560	L. Ruehs. Sash fastener, B. Bernstein. Sash fastener, C. Neumann. Sash holder, H. E. Willer.	495,758 495,659 495,905 495,646	F G H
495,560 495,532	Saw attachment, Gallagher & Johnson Saw brazing clamp, band, C. M. Emerson. Saw dressing device, J. A. McRanolds Saw cuide and cooler band, F. G. Pales.	495,731 495,881 495,946	Je K
495,924 495,526	Saw, hand, T. S. Disston. Saw, insertible tooth, J. E. Emerson. Scale, recording, R. McFarlane.	495,931 495,729 495,752	L: L: M
495,862 495,846 495,491	Scale, sack, L. L. Maxhimer. Secondary battery, L. B. Rowley	495,751 495,897 495,638	M M
495,491 495,756 495,826 495,831	Sewage, treating, J. Powers Sewing machines, thread cutting attachment for Sahoe, V. Buck Sahoe, V. Buck Holderman A Power of the Counter, F.	495,834 495,542	M N O
495,528 495,567 495,814	Holderman Shelf, folding, H. C. Reynolds Shell placer, C. S. Hisey Ship's log. C. F. Holt Side light or scuttle and ventilator, combined, T.	495,806 495,910 495,888 495,587	ř P
495,775 495.761	Side light or scuttle and ventilator, combined, T. Utley Sieve, flour, M. Eberle Sifter ash J. A. Murphy	495,8545 495,545	P
495,781 495,572 495,597	Side light of scatter and vertilator, combined, T. U't.ey. Sieve, flour, M. Eberle. Sifter, ash, J. A. Murphy Signal. See Railway signal. Slate picker, A. W. Housser. Sleigh, W. N. Scow. Sole, electric shoe, R. F. Carnes Spectacle or everless frame, W. E. Stevens.	495,809 495,845	R Si Si
495,606 495,890	Sole, electric shoe, R. F. Carnes. Spectacle or eyeglass frame, W. E. Stevens. Spindle fastening device, F. Singleton Sporting ball, R. B. Whitzel Spiring. See Vehicle spring Watchcase spring. Stamp mill guide, W. H. Brown. Stamping press, bydraulic, Knight & Higgins. Stay, dress, D. H. Warner Steam boiler, C. Ahrens Steam boiler, L. A. Olsen	495,918 495,712 495,863	Si
495,720 495,803 495,711 495,778	Stamp mill guide, W. H. Brown. Stamping press, bydraulic, Knight & Higgins. Stay, dress, D. H. Warner.	495,876 495,591 495,618	So
495,778 495,486 495,513 495,552	Steam boiler, M. L. Severy	495,524	
495,680 495,919 495,517	Steam engine, G. De Laval Steam engine, S. H. Rathburn Steering mechanism. J. Christensen. Steneil apparatus H. Sorg	495,742 495,516 495,622 495,604	W
495,699	Stocking and knitting same, E. R. Branson	495,660 495,575	
495,472 495,920 495,661 495,676	Steam boiler and frebox therefor, C. W. Hullings Steam engine, G. De Laval. Steam engine, S. H. Rathburn. Steering mechanism. J. Christensen. Stencil apparatus, H. Sorg. Stocking and knittling same, E. R. Branson Stop and waste device, H. C. Apel. Stop per. See Bottle stopper. Store service apparatus, C. W. McCormick. Stove, J. Lamb. Stove and attachment therefor, lamp, F. Higbie Stove railway car, M. E. Cook.	495,555 495,802 495,880	Ba
495,649 495,772 495,601 495,643	Striking and strength testing machine, coin-con-	495,740	B
495,559 495,951	Sugar, refining, E. Langen Surface gauge, P. A. Renko. Swing, W. R. Wilcox Swing, lever, W. R. Wilcox	495,614 495,565 495,923 495,929	F G G
495,620 495,933 495,848 495,530 495,624	Table leg fastening, J. Volz Tack or nail machine feeder, E. O. Benson	495,857 495,774	M O
495,624 495,824 495,906 495,839	Talking machine, J. L. Atkins Tanning agents, making solid extracts of sumac, hemlock, and other, P. T. Austen. Telegraphic messages, indicating, J. Levi.	495,768 495,744	ar
495,576 495,490 495,776 495,632	Talking machine, J. L. Atkins Tanning agents, making solid extracts of sumac, hemlock, and other, P. T. Austen. Telegraphic messages, indicating, J. Levi. Thill coupling, H. P. Faris. Thill coupling, H. Tydeman. Thimble, R. M. Durham. Thread cutter and holder. E. B. Look. 'i'n cans, blank for the manufacture of, W. J. Phelos	495,697 495,855 495,79 0 495,500	188 25 0 f B1
495,853	Tin plate, apparatus for the manufacture of. D.	200,100	ve
495,496 495,716 495,766 496,644	Edwards. Tire, pneumatic, P. Bouery. Tire tightener, A. B. Bowen. Tobacco elevator, B. F. Vanlandingham.	495,777 496,641 496,783	in

Pooth, artificial, E. C. Merrill. Toy derrick, H. Cotton Treelis, vine, A. S. Hart Treelis, vine, A. S. Hart Trestle, adjustable, F. Jones Proley, electric, J. W. Kenevel. Proley wre finder, Cleminshaw & Bradt Prough. See Feed trough. Truck, car, W. Koedding. Truck, car, G. L. Stuebner Truck, castet, W. Clouser. Trunk, Thacker & Down Trunk Thacker & Down Trunk trap fastener, W. H. Mitchell. Tup hame, C. H. Scarlett. Twine making machine, F. G. Becker. Twisting and spinning machine spindie, G. Singleth	495,898
Toy derrick, H. Cotton	495,62
Trellis, vine, A. S. Hart	495,67
Prolley, electric, J. W. Kenevel	495,94
l'rolley wire finder, Cleminshaw & Bradt	495,69
Truck on W Koodding	405.90
Truck, car. G. L. Stuebner.	495.849
Truck, casket, W. Clouser	495,47
Trunk, Thacker & Down.	495,85
l'ube drawing bench. F. Deming	495,610
Tug, hame, C. H. Scarlett	495.61
Twine making machine, F. G. Becker	495,46
gleton gleton	495,713
rwisting and spinning machine spinning, v. Singleton. Type machine, J. G. Pavyer. Type machine mould, J. G. Pavyer. Type setting machines, indicator mechanism for,	495,70 495,70 495,70
Type machine mould, J. G. Pavyer	4 95,700
J Hooker	495 58
Types for printing and stamping and type made	100,00
J. Hooker Types for printing and stamping and type made by such process, manufacturing, H. Duning Ultramarine furnace, Prochazka & Scharring-bausen	495,66
hausen	495.51
Undergarment, combination, W. F. Kneip (r)	11,32
Valve, D. Kennedy,	495,739
Valve and laucet, R. Marsh	495,050
Varnishing machine, H. Haefner	495,48
Vehicle, C. C. Leiwenich	495,74
Vehicle brake, J. H. Grayson	495.883
Vehicle gear, A. J. Cook	495,54
Vehicle motor, W. T. Harris	495,73
Vehicle, self-propelling, T. J. Thorp	495,53
Vehicle, steam, J. M. Richmond	495.70
Vehicle wheel, M.W. Lowinsky	495,81
Vehicle wheel, J. Pool	495,75
Velocipede attachment, G. E. Pfeiffer	495.51
Vending apparatus, G. A. Welch et al	495.53
Ventilation and heating system, J. Schermus	495,56
rator, car, E. T. Earl (r)	11,32
by such process, manufacturing, H. Dunning. Litramarine furnace, Prochazka & Scharring- hausen Undergarment, combination, W. F. Kneip (r). Valve, D. Kennedy. Valve and faucet, K. Marsh. Valve mechanism, air brake, J. T. Hayden. Varnishing machine, H. Haefner. Vehicle, C. C. Leiwenich. Vehicle cover, Warren & Wike. Vehicle cover, Warren & Wike. Vehicle gear, A. J. Cook. Vehicle motor, W. T. Harris. Vehicle spring, J. Henrie. Vehicle spring, J. Henrie. Vehicle spring, J. Henrie. Vehicle wheel, J. Pool Vehicle wheel, J. Pool Velocipede A. Levin. Vehicle, Steam, J. M. Richmond. Vehicle wheel, J. Pool Velocipede attachment, G. E. Pfeiffer. Vending apparatus, G. A. Welch et al. Ventilation and heating system, J. Scherffius. Ventilator and combined ventilator and refrigerator, car, E. T. Earl (r). Vessesie, raising sunken, J. T. Kelly.	11,324 495.49
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rator, car, E. T. Earl (r). Vessels, raising sunken, J. T. Kelly. Veterinary ecraseur, A. Fete. Vise, smith's, G. W. Deafenbaugh Wagon, dumping, J. T. Richardson.	11,324 495,494 495,664 495,784 495,700
rator, car, E. T. Earl (r). Vessels, raising sunken, J. T. Kelly. Veterinary ecraseur, A. Fete. Vise, smith's, G. W. Deafenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker.	11,32,495,49 495,66 495,78 495,70 495,46
ventuator and combined ventuator and terrigerator, car, E. T. Earl (r). Vessels, raising sunken, J. T. Kelly. Veterinary ecraseur, A. Fete. Vise, smith's, G. W. Deafenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker. Wagon running gear, W. & D. McKee. Washing machine, J. A. E. Anderson.	11,32: 495,49: 495,66: 495,78: 495,70: 495,46: 495,90:
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versels, raising sunken J. T. Kelly. Versels, mith's, G. W. Deafenbaugh Vagon, during, J. T. Richardson. Wagon platform gear, H. Baker. Wagon platform gear, H. Baker. Wagon platform gear, W. B. D. McKee. Washing machine, J. J. E. D. McKee. Washing machine, J. H. Kessler. Washing machine, J. Turrier. Washing top, A. G. Guerin. Watchesses graing, N. J. Eality.	11,32,495,495,495,70,495,495,495,81,495,85,495,495,495,495,495,495,495,495,495,49
veriator, car, E. R. Earl (r) Vetermary ecraseur, A. Fete. Vise, smith's, G. W. Dearenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker. Wagon platform gear, W. & D. McKee Washing machine, J. A. E. Anderson. Washing machine, J. H. Kessler. Washing machine, J. Turner. Watch, stop, A. G. Guerin. Watchcase spring, N. J. Felix. Water gauge, float, A. E. Seinecke.	11,32:495,495,66495,76'495,461495,85495,58495,58495,52495,52
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veriation as E. T. Earl (1) rator, car E. T. Earl (1) Vetermary ecraseer, A. Fete. Vetermary ecraseer, A. Fete. Vagon, dumping, J. T. Richardson Vagon platform gear J. H. Baker. Wagon platform gear J. H. Baker. Wagon machine, J. A. E. Anderson. Wagon machine, J. H. E. Anderson. Washing machine, J. H. E. Anderson. Washing machine, J. Turner. Wator and J. T. Washer. Wator washing machine, J. Turner. Wator gauge, float, A. E. Seinecke. Water wheel and elevator, J. B. Lockwood.	11,32: 495,49: 495,66: 495,70: 495,46: 495,65: 495,85: 495,85: 495,62: 495,62: 495,68: 495,68: 495,68:
veriator, car, E. R. Earl (f.) Vetermary ecraseur, A. Fete. Vise, smith's, G. W. Deartenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker. Wagon running gear, W. & D. McKee Washing machine, J. A. E. Anderson. Washing machine, J. H. Kessler. Washing machine, J. H. Kessler. Washing machine, J. Turner. Watch stop, A. G. Guerin. Watchcase spring, N. J. Felix Water gauge, float, A. E. Seinecke. Water tube boiler, S. A. Pratt. Water ing cart, H. E. Fair an. Welding apparatus, Pross & Lipe.	11,32: 495,49: 495,66: 495,70: 495,40: 495,65: 495,81: 495,58: 495,68: 495,68: 495,68: 495,69: 495,94:
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ventator and terrige- ventator, car. E. T. Earl tr. Kelly. Vetermary ecraseer, A. Fete. Vetermary ecraseer, A. Fete. Vagon, during sunken, J. T. Kelly. Vagon, during gear, J. F. Kelly. Vagon, during gear, J. F. Lichardson. Wagon platform gear, J. H. Baker. Washing machine, J. J. E. A. McKee. Washing machine, J. J. F. L. McKee. Washing machine, J. J. T. Urrner. Washing machine, J. J. T. Urrner. Watch stop, A. G. Guerin. Watch stop, A. G. Guerin. Watch geas spring, N. J. Felix. Water gauge, float, A. E. Seinecke. Water wheel and elevator, J. B. Lockwood. Water wheel and elevator, J. B. Lockwood. Watering cart, H. E. Fair an Weld in gapparatus, Oil, J. Barrett. Well drilling apparatus, oil, J. Barrett. Well drilling apparatus, oil, J. Barrett. Well sand connecting pipes, system of exhausting air from artesian, J. T. Langford. Wells, apparatus for preventing obstructions to the flow of oil in oil, F. Gardner.	11,32:495,494 495,684 495,787 495,707 495,461 495,685 495,582 495,683 495,683 495,797 495,94 495,683 495,853 495,81
veriator, can, E. T. Earl very veriator, can, E. T. Earl very cratery, can, E. T. Earl veterinary ecraseur, A. Fete. Veterinary ecraseur, A. Fete. Vise, smith's, G. W. Dearenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker. Wagon running gear, W. & D. McKee. Washing machine, J. H. Baker. Washing machine, J. Turner. Washing machine, J. Turner. Watch stop, A. G. Querin. Watchcase spring, N. J. Felix Watchcase spring, N. J. Felix Water gauge, float, A. E. Seinecke. Water tube boiler, S. A. Pratt. Water wheel and elevator, J. B. Lockwood. Watering cart, H. E. Fair Well drilling apparatus, oil, D. J. Thayer. Well drilling apparatus, oil, J. Barrett. Wells and connecting pipes, system of exhausting air from artesian, J. T. Langford. Wells, apparatus for preventing obstructions to the flow of oil in oil, F. Gardner. Welting, making, R. K. Johnstone. Wheel. See Current wheel. Fifth wheel. Ve-	11,32:495,49 495,49 495,78 495,70 495,40 495,65 495,81 495,58 495,68:495,68:495,68:495,68:495,81:495,88:495,81:495,81:495,81:495,81:495,83:495
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ventator and terrige- verator, car, E. B. Earl t. Kelly. veremany ecrasew. A. Fete. Vetermany ecrasew. A. Fete. Vagon, dumping, J. T. Kelly. Vagon, dumping, J. T. Richardson. Vagon platform gear, J. H. Baker. Wagon platform gear, J. H. Baker. Washing machine, J. H. Kesterson. Washing machine, J. T. Washing machine, J. Turner Washing machine, J. Turner Washing machine, J. Turner Washing machine, J. Turner Watch stop, A. G. Guerin. Watch stop, A. G. Guerin. Watch geas spring, N. J. Felix Water gauge, float, A. E. Seinecke. Water wheel and elevator, J. B. Lockwood. Watering cart, H. E. Fair Weld drilling apparatus, Oil, J. Barrett. Well drilling apparatus, oil, J. Barrett. Well drilling apparatus, oil, J. Barrett. Well drilling apparatus, oil, D. J. Thayer. Wells and connecting pipes, system of exhausting air from artesian, J. T. Langford. Wells, apparatus for preventing obstructions to the flow of oil in oil, F. Gardner. Wheel. See Current wheel. Fifth wheel. Velnicg wheel. Water wheel. Windning silk, etc., apparatus for, E. Fougeirol. Windning silk, etc., apparatus for, E. Fougeirol.	11,32:495,49 495,49 495,68 495,70 495,46 495,85 495,85 495,85 495,52 495,52 495,52 495,85 495,85 495,85 495,85 495,85 495,85 495,85 495,85 495,85 495,85
vertator, can, E. T. Earl V. Veterinary ecraseur, A. Fete. Veterinary ecraseur, A. Fete. Vise, smith's, G. W. Dearenbaugh Vise, smith's, G. W. Dearenbaugh Vise, smith's, G. W. Dearenbaugh Wagon, dumping, J. T. Richardson. Wagon platform gear, J. H. Baker. Wagon running gear, W. & D. McKee. Washing machine, J. H. Baker. Washing machine, J. H. Kessler. Washing machine, J. Turner. Watch stop, A. G. Querin. Watchcase spring, N. J. Felix Watch graye, float, A. E. Seinecke. Water tube boiler, S. A. Pratt. Water beel and elevator, J. B. Lockwood. Watering cart, H. E. Fair an. Welking apparatus, Fross & Lipe. Well drilling apparatus, oil, J. Barrett. Well drilling apparatus, oil, J. B. Lockwood. Wells and connecting pipes, system of exhausting air from artesian, J. T. Langford. Wells, apparatus for preventing obstructions to the flow of oil in oil. F. Gardner. Welting, making, R. K. Johnstone. Welting, making, R. K. Johnstone. Wheel. See Current wheel. Fifth wheel. Vehicle wheel. Water wheel. Windming lik, etc., apparatus for, E. Fougeirol. Windminl, T. Perry. Windmill derrick, G. H. Brown.	11,32:495,494 495,469 495,661 495,901 495,651 495,62:495,62:495,62:495,68:495,81:495,794 495,48:495,58:495,495,495,495,495,495,495,495,495,495,
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TRADE MARKS.
Beer, lager, Bartholomay Brewery Company 22,825 Beer, lager, Wacker & Birk Brewing and Malting
Beer, lager, Bartholomay Brewery Company
Carriages and wagons, G. B. Marx 22,856 Cigars, H. H. Knollenberg & Son. 22,823 Cigars and cigarettes, G. W. Emich & Co. 22,824 Cloth, press and filter, Puech & Freret 22,821 Coats, Dantaloons, and vests, men's, C. R. Lewis 28,221
Clothing Manufacturing Company. 22,813 Combs, fine tooth, W. H. Noyes & Bro. 22,638 Copying Ipress, bath, or moistening apparatus, H. C Davison. 22,810
Cotton fabrics. Amoskeag Manufacturing Com-
pany. 22817 Cotton goods, gray bleached, dyed, printed, and fame domestic, Neuss, Hesslein & Co. 22,818 to 22,820 Dress shields, seamless stockinet, I. B. Kleinert Rubber (Course).
Rubber Company. 22,812 Face powder, Oak Chemical Company. 22,844 Flour, wheat, C. S. Seaver. 22,830 Grease, plumba o, axle, United States Graphite
Company
ing 22,807 ing sing 22,807 22,852 22,852 Laxatives and tonies, Searby, Zeilin & Co. 22,854 Lubricating compounds, J. Dego. 22,850
Medical compound containing golden rod, C. F. Fortin. 22,835 Medical plasters, Johnson & Johnson. 22,832
Medicines for coughs, colds, rheumatism, sprains, • brulses, and healing purposes, J. C. Banaszyn-
Strict S
used in dispensing, McKesson & Robbins, 22,853
Co
Remedy for indigestion, Monterey Company
Soaps, toilet, shaving, and laundry, Bernheimer
Teas and coffees, Chase & Sanborn. 22,827 Tin plate, terne plate, and coated and uncoated sheet metal, N. & G. Taylor Co. 22,854 Tollet articles and preparations, certain named. A. & F. Pears 22,843 Tollet powder, Tellance Manufacturing Company. 22,845 Witches Warneldow West Company.
Toilet powder, Reliance Manufacturing Company. 22,845 Watches, Hampden Watch Company. 22,806 Water wheels, James Leffel & Company. 22,867
DESIGNS

DESIGNS.

Barrel scrubbing machine frame, U. Eberhardt	22.361
Bottle, T. C. Wheaton	22.351
Brush back, toilet, C. C. Wientge	22,355
Cake basket, S. H. Leavenworth	22.352
Fence panel, J. W. Dwiggins	22,350
Flush tank casing, C. E. Yerge	22,360
Gimp, C. E. Hertlein.	22,351
Glass, surface ornamentation of sheet, Brogan &	
Malloch	22,356
Match safe, Bernard & Frank	22,353
Oiler, bicycle, H. O. Hall	22,357

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