#### Business and Personal.

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

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Cheap steel for expensive tools is false economy; hence the demand for Jessop's high grade.

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Stow flexible shaft. Invented and manufactured by Stow Mfg. Co., Binghamton, N. Y. See adv., page 174.

Screw machines, milling machines, and drill pre The Garvin Mach. Co., Laight and Canal Sts., New York. Centrifugal Pumps for paper and pulpmills. Irrigating

and sand pumpingplants. Irvin Van Wie, Syracuse, N. Y. Meritorious inventions purchased or developed. Send particulars, with stamp for reply. Chas. Babson, 24 Congress St., Boston, Mass.

Guild & Garrison, Brooklyn, N. Y., manufacture steam pumps, vacuum pumps, vacuum apparatus, air pumps. acid blowers, filter press pumps, etc.

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Hydrocarbon Burner (Meyer's patent) for burning crude petroleum under low pressure. See adv. page 381. Standard Oil Fuel Burner Co., Fort Plain, N. V.

For Sale or on Royalty—The simplest, most economical, and practical reel for winding barbed wire by horse power. No. 467,498. R. S. Dickinson, Columbus, Neb.

The best book for electricians and beginners in electricity is "Experimental Science." by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 361 Broadway, N. Y.

Canning machinery outfits complete, oil burners for

For Sale—Patent No. 437,533, potato digger, and a good one. Working model in the World's Fair. For terms and particulars, address James Gohm, 40 Broadway, Newport, R. I.

Competent persons who desire agencies for a new popular book, of ready sale, with handsome profit, may apply to Munn & Co., Scientific American office, 361

Vilh. Lohmann and Carl Andersen, Copenhagen. Described in Scientific American, April 8, page 219. Address V. L., P. O. box 2212, New York.

Wanted-A live and energetic man who understands draughting and is capable of supervising mechanical department of a large manufacturing plant. Must be a thorough mechanic. State reference, experience, and salary wanted. Address "Mechanic," P. O. box 773, New

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HINTS TO CORRESPONDEN'I'S.

windmill, which in good wind gives me 8 horse power. Is details of boat and engine. it practicable or even possible for me to light my house and barn electrically from this power? A. You can use your windmill power for driving a dynamo for lighting your house; but it will be necessary to use storage batteries in order to secure a steady current. We shall probably publish at an early date an article on this subject.

(4903) J. M. B. asks: Is it compulsory for the patentee of a patent, or the person selling the patent, to have date of patent and name of patentee on the article sold? A. No; it is not compulsory. But if not so marked, if any one should imitate the article, not knowing it was patented, such person would not be held liable for infringement until notified.

(4904) W. W. P.-You can find the current given out by your dynamo by dividing the electromotive force by the resistance. There is no trouble with your galvanometer needle. If you wish to measure the current, you should use an amperemeter, or a galvanometer with a single large bar for a conductor instead of a

(4905) W. H. L., Jr., writes: There was

equivalent to 93 watts, as stated. Allowing an efficiency of 92 per cent (about) = 100 watts.

 $P \div E = C = 100 \div 500 = \frac{1}{8}$  ampere.  $E \div C = R = 500 \div \frac{1}{6} = 2,500 \text{ ohms.}$ 

Proof.

 $C \times R = E = \frac{1}{5} \times 2,500 = 500$  volts.  $E \times C = P = 500 \times \frac{1}{8} = 100$  watts.

(4906) E. E. D. says: I have made the castings and am ready to wind my armature and field magnets for the motor described in Supplement No. 600. Everything is to a ¾ scale, that is, I have made the castings, etc.,  $\frac{3}{4}$  the size of the original. Please let me know what size wire to use on the magnets and armature respectively, and how many coils on each. Also let me know how many volts the machine, 34 size, will stand and how many it will take to run it, and how many revolutions. A. If you reduce the size of the wire to 34 of that given in the article referred to, you will be approximately correct, but a machine of a new size requires not only a great deal of calculation but some experiment to secure the best proportions.

(4907) W. H. S.—The wire will change 0014 of an inch per rod for each 10° Fah., or 1.4 inches for 100 rods. Its elasticity will keep it from breaking, if not overstretched.

(4908) W. B. says: 1. Could you tell me the power of a water wheel, the diameter of the wheel being 9 inches and of the bucket type, the jet being threesixteenths inch, and the water pressure being 35 pounds to the square inch? Would the wheel have to be any larger to drive the small hand power dynamo in Supplement 161? A. The water wheel, if of the Pelton type, will give you about one-twelfth of a horsepower, and should make 900 revolutions per minute. If you make the jet of good form for velocity and one-fourth inch diameter, it will give the same wheel at the same speed about one-eighth of a horse power, and will drive dynamo illustrated in Scientific American Supplement, Fine Castings in Brass, Bronze, Composition (Gun No. 161. 2. Could I not use a piece of very soft Jas. J. rod iron instead of sheet iron for the drum armature? A. Any soft iron is good for the armature. 3. Will common soldering acid solder platinum or not, and what acid will? Platinum cannot be soldered like other metals The parts to be soldered must be made clean and a thin electro deposit of copper made upon the surface, when it can be soldered with tin and the ordinary tinner's acid.

(4909) S. W. L. writes: I inclose a sample of a deposit which formed around the sides of a water barrel during a light rain on night of March 13th. Very heavy, threatening clouds formed about 8 P. M., accompanied by some lightning and thunder, but the rain that soldering, air pumps, can wipers, can testers, labeling fell was very light. This deposit, which looks like sulmachines. Presses and dies. Burt Mfg. Co., Rochester, phur, could be seen everywhere the next morning. Can you tell me what it is and what caused it? A. The phenomenon of showers of sulphur, which has been many times described as falling with rain or during great storms and found floating on water and covering the grass and roofs of buildings, while yellow and sulphurous in appearance, is not sulphur. Accurate researches have proved that this dust is nothing else than the pollen of certain flowers, and of pines in particular, which are Broadway, New York.

swept off by the wind and precipitated by the rain, the
For Sale—Patent No. 494,106, lubricator. Inventors, nature of the pollen depending upon the vegetation that is flowering in the direction from which the wind blows. In Europe, in March and April, the pollen is supposed to be that of alders and filberts. In May and June, that of pines, elders, and birch. In July, August, and September, that of lycopodium, typha, and equise-The dust from sand storms is readily recognized tum. by its gritty feel.

of sand and the proportions. Also the best thing to clean and brighten copper. A. Portland cement 1 part, sand 2 parts, broken stone 3 parts, for concrete foundations. For mortar, the same without the broken stone. For floors, first coat as above for mortar, finish with equal parts Portland and sand. Use for all clean, sharp sand. With Louisville and other American cements, 50 per cent more cement than the above. All cements should be mixed with the sand dry, then wet, stir, and use at once. Oxalic acid in water is much used for cleaning and

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

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

Inquiries 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.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

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

Books referred to promptly supplied on receipt of price.

Without the manufacture of the supplied on receipt of price.

Without the same and the same and the same at the same and the same at the same and the same over steam or oil alone? I would like it as automatic as \$4 mailed. in your engine; cylinder, 5 inches diameter, 7 inches Minerals sent for examination should be distinctly stroke; boiler, 30 inches diameter, 48 inches high, tubular; marked or labeled.

> recover the precious metals from salt water? A. In the confined in small spaces by fibrous material. Scientific American of June 18, 1892, you will find an excellent article on this subject. It is calculated that the size smokestack for steamer that has two boilers, 103 there are 10,000 million tons of silver in the ocean.

(4913) C. P. McC. asks: 1. Why are the carbons of arc lamps plated with copper? A. It makes them better conductors. 2. What is the salt used or substance in nickel electroplating? A. Nickel sulphate, or a double sulphate of nickel and an alkaline metal. Vari-310, 436, 755, and 848. 3. Can a person practically run the small motor in Supplement 641 with a storage battery? If so, how large a one? A. Yes. Two cells will run the motor. 4. Of what substance is the carbon est temperature that has ever been artificially produced? regard to the explosion of the idea of two kinds of ing to Fahrenheit's scale and also what it is by the Centi- while the capacity of the pump is said to be 5,000 gallons a mistake made in your reply to (4771) W. H. D., March 25, 1898. This is the correct formula: A 1/2 horse power is exploded. See Lodge's "Modern Views of Electricity." is -140° C., -220° Fah., with bisulphide of carbon and What remedy would you suggest to have our pumps hold

(4914) H. L. asks: How will I be able to obtain a black finish on brass tubing that will not scale or knock off? A. Immerse the tube, after being thoroughly cleaned, in a solution of chloride of platinum, which is made by dissolving platinum to saturation, 2 parts hydrochloric to 1 part nitric acid. For other receipts, see

(4915) A. H. W. asks what size magnet it would take (size of wire, etc.) and how many batteries to secure a lifting pull of one-half pound one-fourth of an inch, also of one pound. A. Make the core of your inches long, and on the spools wind enough No. 20 wire to make the depth of the wire equal to the diameter of

(4916) E. L. R. asks: What size pipe must I use to put in an artesian well that brings water within 75 feet of surface, and put into tank 25 feet above, to put into said tank a stream of water from five to six thousand gallons per hour? Can I use a steam jet pump or had I better use a piston pump? What horse power will it require to do said work? What kind of well boring apparatus is cheapest and best to use in boring said have different coefficients of expansion, it is obvious that well, say 500 feet, through blue marl, or earth formation at any other temperature than that at which the organ is like that at Niagara Falls? A. You will have to provide for a lift of about 150 feet; this will be too great for a economy in a steam jet pump. For so large a quantity of water a direct-acting artesian well pump will be the most economical. Such a pump with 10 inch steam cylinder, 6 inch water plunger, 24 inch stroke, making 40 strokes per minute, will do the work. With the friction of the moving parts this will require 8 horse power, with a mean steam pressure of 40 pounds per square inch. The well should be bored 8 inches, which will give room for a 6 inch chamber, although the pipe below the bucket may be 4 or 5 inch. If the well is to be tubed, it should be with 7 inch pipe, which, if casing pipe is used, requires the drill hole to be 8½ inches diameter. Rock drilling through limestone and sandstone is quickest done with a diamond drill. The earthy covering of the rocks should be bored out from the inside of a larger tube than is used for the rock work, the large tube being driven  $\mbox{\bf down}$  as the boring proceeds. See Scientific American SUPPLEMENT, Nos. 156, 157, 158, 159, and 160, for illustrated description of drilling artesian wells, tools, cost, etc., 10 cents each mailed.

(4917) W. W. writes: I want to get at the amount of heat necessary to disintegrate the various gases or odors, and the various plans tried by others. I can handle acid gases, but oily odors are ahead of me so far. A. The odor of oils and animal matter was neufell was very light. This deposit, which looks like sul- tralized in the fat rendering establishments around New York, a few years since, by conducting the odorous gases and vapors under the fire grates. We have no literature on this subject.

> (4918) C. D. B. says: I am putting on top of a framework 40 feet high a 35 bbl, tub or water tank, insert a 114 inch gas pipe perpendicularly in bottom of tank down 2 feet below surface of ground (or 42 feet), then at right angles a 116 inch pipe from standpipe 800 feet on a level, then turn up 2 feet and discharge the water in open air, how high will it throw the water with fountain head kept full depth of tank, 8 feet? A. The height of a jet from your tank will vary very much with the size of the nozzle. If the water level is 48 feet above a half inch nozzle of good form, your jet may be thrown 38 feet high. See Scientific American Supplement, No. 792, on "The Height of Jets and Fire Nozzles."

(4919) H. M. asks: In case some-(4910) A. T. B. asks the best mode of thing gets under the check, will the engineer have to mixing and using Portland and Louisville cement, both in dry and wet places, foundations, and floors; the kind when the check does not shut after pumping. There should always be a valve between the check and the boiler, which can be closed when the pump stops, or you can keep the pump running slowly. In such emergencies ders for different horse powers; average steam pressure, it only requires a little attention to keep the plant running until the proper time for examination of the check valve. It is a very common and proper practice to close, rule, subject to small variations for special service. the valve between the check and the boiler and clean out the check valve while under full steam head.

inform me how to find the proper amount of directradiation to heat a room by steam or hot water? A. The ordinarypractice for your climate is one square foot of steam-heated surface to 125 cubic feet of space in room. and one square foot to 100 cubic feet space for hot water. The quantities are derived from deductions and experience. They have been fixed mathematically for differspeed? Also size wheel and number of blades. I would ent conditions and exposure of buildings and the amount of glass. See Baldwin's work on "Steam Heating," \$2.50 mailed, and his work on "Hot Water Heating,"

(4921) W. B. M. asks for the name of the best known filling for lining for small ice box, say canacity of two to three hundred pounds. I have one screw 30 inches, 5 feet pitch, three blades. Hard coal built of hard oak plowed and grooved, double solid (4902) J. J. R. says: I have a large factory result. Address advertisers in this journal for and sides, latter space filled with pounded charcoal, but fail to get satisfactory results. A. Dry asbestos (4912) C. H. R. asks: What proportion fiber and mineral wool are the only materials suitable being flat, it is best to put the letters and ornaments unof silver is held in solution (estimated) by the water of the ocean per ton? What proportion of gold? Has should be lightly packed so as to prevent air circulation, heated by the water of the ocean per ton? What proportion of gold? Has there ever been an experiment on an extensive scale to as the air alone is the best non-conductor of heat when

> (4922) C. F. B. writes: I wish to know tubes in each, 14 feet by 21/2 inches; the draught goes through the tubes and about half way back under the | Cyclopedia of Receipts, Notes and Queries.' boilers iuto stack between boilers. The present stack is 30 feethigh. 36 inches diameter, but draught is not as good as desired. Can you tell me what change to make? A. Your chimney is not high enough. By adding 10 feet ous formulas are given in our Supplement, Nos. 210, to the height you will gain 30 per cent stronger draught. tion, you will obtain full duty from the boilers.

(4923) A. E. A. asks: What is the lowin the Edison incandescent lamp made? A. Bamboo Also by whom it was observed and by what process it end being so much eaten. We have been pumping about fiber carbonized. 5. Where may I find information in was obtained. Please mention that temperature accord-

liquid nitrous acid by evaporation. See Scientific AMERICAN SUPPLEMENT, Nos. 449 and 489, on the liquefaction of gases and low temperatures.

(4924) W. A. P. writes: I am using a tubular boiler and feed with an inspirator; the connection for supplying the boiler with water is on top at the front 'Cyclopedia of Receipts, Notes and Queries," \$5, end, the supply pipe running down between the tubes. The blow-off pipe is at the back end of boiler near the bottom. Now I want to connect another inspirator to boiler. Would there be any objection to connecting water supply in blow off pipe? Of course would connect in such a manner as not to interfere with blowmagnet one-half inch in diameter, with the spools three off. A. There is no objection to feeding the boiler through the blow-off pipe, if the feed pipe has a valve and check valve properly arranged, whether the blow-off the core. Use four cells of plunging bichromate battery. pipe is at the front or rear end of the boiler. Feeding through the blow-off pipe is in common practice.

> (4925) B. A. C. writes: A few days ago I was assisting an organ tuner, by sounding different notes and chords for him. In our conversation he told me that it was necessary to have the temperature  $65^{\circ}$ before the organ could be tuned. Why is this? A. As the different materials of which the organ is constructed tuned, some of the pipes will be slightly out of tune. For this reason the tuning is done at a temperature of 65°, which is about the average temperature of churches or places where organs are used.

> (4926) A. R. writes: I want to pump water from a tube 10 feet high through a half inch pipe. What kind of a pump will require the smallest power to do the work? Will a pump which draws the water from the top take less power than one pressing the water from the lower end of the pipe? A. Any hand force pump will answer your purpose. It takes no more power to force than to lift the water.

> (4927) W. McV. asks: What kind of cement will stick on a stone wall over whitewash, to prevent the water from coming through? The above refers to the foundation of a flour mill. The river rises in the spring and leaks through the walls of basement, causing considerable annoyance. It is well plastered now, but water seems to leak through and requires the services of a fire engine to keep it pumped out. A. It will be difficult to make such a basement as you describe water tight. It might perhaps be done by carefully pointing the walls with best quality Portland cement, and laying a three inch Portland cement pavement.

> (4928) J. F. R. asks the amount of shrinkage that should be allowed for, inmaking patterns for the eight light dynamo. A. For iron allow 1/8 inch to a foot. For brass 3-16 inch to a foot.

> (4929) J. W. H.—For dye vats as you describe, set the glazed bricks as close as possible in a putty made of glycerine and litharge. Mix in small quantities and use at once.

> (4930) J. S. asks: What sized propeller would be required to run a 13 foot boat, if the engine is 1/2 H. P.? How many miles per hour could the above boat go? A. Your boat will require 10 inch propeller, and may make 4 miles per hour.

> (4931) W. R. writes: I am making a small box of aluminum and would like to solder the corners together. Now I ask you, Is there anysolder that will hold? If so, where shall I be able to get it? Also, can aluminum be welded or fastened together by heat? If so, what way? A. You can make a solder of tin 3 parts, zinc 2 parts, cadmium 5 parts, to solder with a soldering copper, using paraffine as a flux. Aluminum cannot be welded as you suggest.

> (4932) E. E. P. T. asks for a rule for determining the requisite thickness of iron in engine cylin-100 pounds. A. The cube root of the diameter in inches  $\times$  0.36 for the thickness of the iron in inches is a good

(4933) G. E. S. asks how to gild the edges of books. A. White of egg, well beaten up, is the (4920) R. M. W. asks: Will you kindly ordinarysticking material used by binders to putthe gold leaf on. The leather back of the book is varnished with it, and when dry, a strip of gold leaf is put on the place where the letters or ornaments are to be placed; the letters used are common printing types (they must be new, however, and not been used with printing ink). They are heated a little above the boiling point of water, which is easily tried with a wet finger, and then they are pressed on the gold leaf for a few seconds only, when the heating of the albumen or white of egg under it fixes them to the leather of the book. The ornamental figures used are commonly made of brass and manufactured for the use of bookbinders, while the type is screwed in an appro-priate brass or iron holder, with wooden handle. The back of a well bound book being always round, the proper way of putting on the gilded letters and ornaments requires a certain way of manipulation, which it is best to acquire by visiting some good . bookbinder's shop in the next large city to see the operation and use your eyes prothe book, covered with gold leaf on the right place, and the press screwed down. Sometimes the binder puts the strip of gold leaf on the face of the type, in place of on the book. This is equally good, and under certain circumstances preferable. From the "Scientific American

(4934) S. C. S. writes: We are pumping waste sulphuric acid a distance of 1,400 feet, with a rise of about 35 feet, and are experiencing a great deal of trouble with the pumps used, and would like to have some suggestions from you in regard to the matter. The pumps we have been using are built especially for us of so-called acid metal, probably a composition of copper and lead, by reliable manufacturers; but after two or three weeks' service they commence to churn, the water 2,000 gallons per hour, and our line is 2 inch lead pipe, out, or could you suggest any other method of transfer ring the liquid? A. The most satisfactory method of pumping acids is by means of compressed air, for which you will need an air compressor equal to 20 cubic feet free air per minute. One of the smallest sizes made by the Ingersoll-Sergeant Drill Company w ll be large enough. Drawthe acid into closed tanks suitable for 50 pounds pressure per square inch, although you may not need a higher air pressure than 30 pounds per square inch. Attach air pipes to top of tanks and the exit pipe at the bottom. You will need no extra valves other than the draw cock from the acid vat and a cock to let out the air when the acid is discharged into the tanks.

(4935) F. T. B. asks: Which side of a leather belt should be run next the pulley? Why? Should this hold true under all conditions? A. For best efficiency the hair side should run on the pulley; but appearance and custom has made the flesh side on the pulley the almost universal practice. The soft surface of the hair side gives a belt a closer and more perfect contact with the pulley, which increases its pull or decreases the tension necessary for the same pull with the flesh side next the pulley.

(4936) M. F. asks: Which of the two is the superior incandescent lamp, one with carbon filament or one with platinum flament, both being of good manufacture? A. We believe it is pretty well settled that platinum incandescent lamps are of no practical value.

(4937) W. B. F.—You can make your aluminum solder by melting together 3 parts tin, 2 parts zinc, 5 parts cadmium; or 9 parts tin, 1 part bismuth. Use paraffine, stearin, or copaiva balsam as a flux. Use  $\boldsymbol{a}$  soldering copper to coat the surfaces to be soldered.

(4938) J. M.—You will find batteries described in Supplements 157, 158, 159, and 793; but we would advise you to purchase a battery for your purpose rather than to try to make one. For ringing belis on an open circuit, we recommend the Leclanche battery.

(4939) J. C. F.-You could not successfully reduce the voltage for electroplating by means of a resistance box.

#### TO INVENTORS.

An experience of forty-four years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & Co., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

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April 11, 1893,

### AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

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Box. See Fruit box. Match box. Necktie box. Propagating box. Stamp box. See Fruit box. Match box. Necktie box. Propagating box. Stamp box. Box for preserving articles of food, etc., G. F. Palm.  Brace. See Bit brace. Brake. See Car brake. Wagon brake. Brake shoe, H. B. Robischung. Brand, stock, N. Rozell.  Brick kiln, N. B. Heafer. Brick mills, pug mill for, Bond & Hilling. Buckle, F. Keily. Buckle, W. F. Ssborne. Building, W. E. Stearns. Building block, J. Heatley. Burner. See Hydrocarbon burner. Butter, making. V. Storeb. Buttons, machine for turning pearl or other, F. Doellbor. Cable trainway grip, A. Rosenholz. Camera shutter, photographic, Shakespeare, Jr., & Low. Can. See Oil can. Can. G. Brinton. Can. G. Rinton. Can. C. N. Tyler. Can body making machine, Murch & Gray. Can opener, R. J. Jones.	495,162 495,269 495,270 495,134 495,115 495,115 495,119 495,119 495,411 495,381 495,381 495,374 495,374 495,066 495,012 495,073 495,073 495,041 495,041 495,041 495,041 495,041 495,041 495,041 495,041 495,041 495,041	HERE HERE THE THE LITTING JJ JJ

Car coupling, D. Lippy	495,160 495, <b>96</b> 2 495,230 495,250	Lar Lar Lar
Car doors, etc., locking device for, W. W. Haley Cars, storm f for railway, G. S. Powell et al Carbon, electric arc lamp, G. M. Lane Carding machines, burr and shive extractor for,	495,327 495,369 495,463	Lan Las Lat
A. & F. A. Howarth. Carriage, child's, E. L. Campbell. Carriage wheel lock, baby, G. A. Watkins Carving machine, F. Snow Casket analle, J. McCartbey. Casket top fastener, S. N. Hiser. Cement materials, apparatus for mixing wet and dry H. Froebling	495,413 495,301 495,211 495,233 495,226	Lev
Casket top fastener, S. N. Hiser Cement materials, apparatus for mixing wet and dry, H. Froehling. Chain, drive, J. Baker	495,412 495,323 495,006 495,319	Lig Lig Loc
dry, H. Froehling. Chain, drive, J. Baker. Chair fan attachment, A. Flierboom. Check row attachment, M. C. McMillan. Chlorine, making, J. A. Just. Churn, H. W. Lanphere. Churn, C. M. Robert. Chart in cutter power actuated C. W. Beers.	495,429 495,462 495,202 495,103	Loc Loc Loc Loc Ma
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Cloth cutting machine, P. D. Van Vragenburg. Clothes drier, T. Fry. Clutch, Meserve & Morse. Clutch, Meserve & Morse.	495,287 495,174 495,409 495,425 495,440 495,328	Med Med Med Med Mid
Clutch, Meserve & Morse. Clutch, Meserve & Morse. Clutch, friction, H. R. Tillison. Clutch, friction ratchet, R. F. Hargraves. Coal, ore, etc., machine for handling, G. H. Hulett. Coffee mill, Morgan & Redlinger, Jr. Coars, madels, etc., because for G. I. Handfold	495,328 495,040 495,099 495,248 495,244	Mil Mil Mo Mo
Coffee mill, Morgan & Redlinger, Jr. Coins, medals, etc., keeper for, O. J. Handfield Collar or cuff drying machine, J. G. Dixon. Combination lock, Skinner & Farrand. Commutator brush, K. Koch. Commutator connector, E. D. Priest	495,276 495,276 495,136 495,058	Mo Mo Nec
Commutator brush, K. Koch. Commutator connector, E. D. Priest. Condenser, J. Laichinger. Condenser, surface, J. F. Allen. Contact device and switch, overhead, C. J. Van Depoe le. Cork screw, A. R. Weisz.	495,417 495,128 495,383 495,386	Net Nic Nu Nu Oil
Depoe le.  Corkscrew, A. R. Weisz.  Cotton, machine for cleaning seed, B. Cannon.  Coupling. See Ser ccapling. Thill coupling.  Crate, can, Moseley & Walsh.  Cream separator, centrifugal. A. Malmros.  Cresol, etc., compound for, J. Messinger et al.  Cultivator, H. W. Eisenbart.	495,392 495,355 495,352	ore Ove
Cultivator, H. W. Eisenhart. Cultivator, A. G. Perry. Cultivator, N. B. & J. B. Robinson Curtain poles, acjustable bearing for, J. Heimke.	495,404 495,365 495,207 495,332	Pag Pag Pag
Cultivator, H. W. Eissenhart. Cultivator, A. G. Perry. Cultivator, N. B. & J. B. Robinson. Curtain poles, adjustable bearing for, J. Heimke. Cut-out, multiple thermal, W. S. Hill. Cutter. See Band cutter. Cigar tip cutter. Cutter and cutter holder, J. Martignon Cutting table, V. Jones. Dental tool holder, C. M. Richmond	495,038 495,256 495,252 495,267 495,214 495,342	Par Par Per Per
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Display shelf and elevator, combined, Bessing & Barker  Dough raising appliance, A. A. Davis  Drawing board, A. H. Johnson  Drier. See Clothes drier.	495,024	Pla Pla Pla
Drill. See Rock & rill.  Dumb waiter, J. J. Kelly.  Dynamometer, E. J. Wood.  Electric arc light, R. M. Hunter  Electric battery, F. M. Archer		Plo Pos Pos Pos
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Feedwater purifying apparatus, S. G. Cabell	495,242	Pu Pu Pu Pu Py
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Journal bearing, car, L, Porter	. 490,188	Sto

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Horse detaching device, C. E. Harris	330         Stphon for washbasins, etc., combined discharge and overflow, C. T. Byrne.         49           Sling for jars, cans, etc., G. B. Wilson.         49           5,181         Snap hook, safety, D. Y. Wilson.         49	.018   Suspenders and braces, E. H. Lieberthal
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Jars or cans, removable thumbpiece for, C. T.  Brant  Journal bearing, car. L. Porter.  Lournal bearing, car. L. Porter.	Steam trap, J. Q. C. Searle	any patent in the coregoing ist, or any patent in print issued since 1863, will be furnished from this office for 1833 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361
Kiln. See Brick kiln. Knife, Hayes & Lewis	Stove, heating, I. Lissner 49.001. Stoves, combined wick tube and burner plate for oil, W. H. Clemes. 49.	A printed copy of the specification and drawing of a part of the foregoing list, or any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 1875 to the patent desired, and remit to Munn & Co., 361 Broadway, New York.  Cannalian patents may now be obtained by the inventors for any of the inventions named in the foregoing list, provided they are simple, at a cost of 340 each. [169] If complicated the cost will be a little more. For full 1611 intructions address Munn & Co., 361 Broadway, New 2016 Vork. Other foreign patents may also be obtained.
Ladder hook, C. A. Stone. 44 Lamp, L. J. Atwood. 44 Lamp, electric arc. A. G. Watarhousa. 44	0.108 Stoves, gas beating attachment for solid fuel, G. 2.79 W. Graves. 495 5.289 Stump extractor, W. E. McCall. 495 5.077 Sulky, W. S. Bull. 496	going list, provided they are simple, at a cost of \$40 each. 169: If complicated the cost will be a little more. For full 1611 instructions address Munn & Co., 331 Broadway, New 1015: York. Other foreign patents may also be obtained.
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ting, W. W. Jacques. Telescope, R. H. Richards.	495,090 495,231 495,205
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Brusb or mirror back, A. F. Jackson	22,341
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Medal, C. Orsini. Metallic finishing plate, W. S. Grafton et al., 22,344 to	22,346
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Butter, cheese, and milk sugar, Potsdam Milk
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Cements, Portland and other stone, Baetjer &
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Chucks, Westcott Chnck Company
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struments, such as, A. Gemunder & Sons 22,760
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Wbisky, Distillers Company.         22,771           Wines and brandtes, M. Lienau & Co.         22,772           Wines, Hungarian. S. Lenck.         22,773
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A printed copy of the specification and drawing of