NEW BOOKS AND PUBLICATIONS.

 T_{IIE} YACHTS AND YACHTSMEN OF A standard work of re-AMERICA. ference. Edited by Henry A. Mott. Vol. I. New York: International Yacht Publishing Company. 692. Price \$20.

This work, the first volume of which has been re ceived, will undoubtedly be the most important contribution to the history of yachting that has ever been written, and the enterprising publishers are to be conratulated upon the success attained in the making of the book, in the cuts and type; while the editor, the wellknown Professor Henry A. Mott, here appears in the new and well filled role of a yachting editor. The work begins with a historyof early yachting and descriptions of many types of sailing vessels of different kinds, from the five masted ship to the house boat. Accounts of yacht clubs and yachting regattas, and descriptions of a vast number of yachts, with a quantity of illustrations of vessels of all types, constitute the text. Numerous portraits are given. Many of the cuts are most elegant photogravures, and some views of the interiors and exteriors of club houses are very attractive. Under each club the general by-laws are given. The many illustrations of yachts, each one famous in its day or at the present time, illustrate most interestingly the gradual evolution of the modern type of American sailing yacht, which now approaches so nearly to the English that there is little difference between the yachts of the two coun tries. The frontispiece shows the Vigilant in a very handsome photogravure, and other yachts of the latest type are likewise given, so that anybody who appeals to it will find the most recent information on the subject The great size of the book, its thoroughness, and the exhaustive treatment of the subject make it utterly out of the question for us to adequately review it, so that this short notice must be taken in place of an adequate review. The work itself speaks for its own merits

SCIENTIFIC AMERICAN

BUILDING EDITION

AUGUST, 1894.—(No. 106.)

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- 1. An elegant plate in colors showing a residence a Plainfield, N. J., recently erected for George H. Babcock, Esq. Perspective views and floor plans A picturesque design. Mr. E. L. Hyde, architect New York City.
- 2. A residence at Edgewater, Ill., recently erected for Mrs. Eva L. Prescott. Perspective elevations and plate in colors, together with floor plans. An ex cellent design. M. J. L. Silsbee, architect, Chicago
- 3. A residence recently completed for J. P. Clarendon Esq., at Hackensack, N. J. Two perspective elevations and floor plans. Mr. J. E. Turhune, architect, Hackensack, N. J. An attractive design.
- 4. A dwelling at Erie, Pa., erected for William J. Sell, Esq., at a cost of \$4,500 complete. Two perspec elevations and floor plans. Mr. C. F. Dean, architect, Erie, Pa.
- 5. A beautiful residence recently erected at Belle Haven Conn. Three perspective elevations, one interior view, together with floor and ground plans. Mr. C. P. H. Gilbert, architect, New York City. A model
- 6. The beautiful residence of E. Einstin, Sq., at Pompton, N. J. Perspective elevation and floor plans. Cost complete about \$20,000. Architect, Mr. Manly N. Cutter, New York City.
- 7. A conveniently and economically arranged suburban cottage recently erected for George W. Payne, Esq., at Carthage, Ill. An attractive and picturesque design. Perspective elevation and floor plans. Cost \$3,000 complete. Architects, Messrs. G. W. Payne & Son, Carthage, Ill.
- 8. Perspective elevation and floor plans of a well arranged dwelling, recently erected for A. N. O'Harra, Esq., at Carthage, Ill. A pleasing design. Cost complete, \$5,500. Architects, Messrs. G. W. Payne & Son, Carthage, Ill.
- 9. A stable at Belle Haven, Conn. Perspective viewand ground plan. A unique design. Mr. C. P. H. Gilbert, architect, New York City.
- 10. The Club House of the Knickerbocker Field Club, recently erected at Flatbush, L. I., N. Y. Engravings and floor plans. Messra Parsett Bros., architects, Brooklyn, N. Y. A neat design in the Colon-
- architect. New York City.
- 12. Miscellaneous Contents: The Hayes metallic lathing, illustrated.—Nonsuch Palace.—The Joseph Dixon place, illustrated.-The "P. & B." sheathing and What becomes of all the lumber.—Globe ventilator, illustrated.-An improved sadiron, illustrated.

The Scientific American Architects and Builders Edition is issued monthly. \$2.50 a year. Single copies, 25 cents. Forty large quarto pages, equal to about two hundred ordinary book pages; forming, practically, a large and splendid MAGAZINE OF ARCHITEC-TURE, richly adorned with elegant plates in colors and with fine engravings, illustrating the most interesting examples of Modern Architectural Construction and allied subjects.

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References 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.

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Minerals sent for expenients peould be distinctly

Minerals sent for examination should be distinctly marked or labeled.

(6196) G. H. will find a small plating dynamo described in Supplement, No. 720.

(6197) J. H. C.—Magneto calls for telephones may be purchased from any of the dealers in elec trical supplies who advertise in our columns

(6198) D. E. writes: We wish to erect a pole 75 or 80 feet high on our school campus, and would be greatly obliged for information as to the best kind and size of timber to use and the best method of lapping or splicing upper stick to enable us to lower the top. A You probably can do no better than to use pine for your staff. Square offfive or six feet of the top and fasten on it two mast irons as far apart as the length of the square part. These are a sort of double hoop of iron or figure of eight shape, one section fitting the squared mast, the other section projecting therefrom, giving a round aperture for the top mast to slide through. A sheave or grooved pulley wheel is mortised in the foot of the top mast, with horizontal pin or journal. A couple of screw eves are fastened to the top of the lower mast. A rope passing around and under the sheave is used to hoist the top mast; one end is secured to one screw e e, the other goes through a pulley fastened to the other screw eve. When in place the top mast is secured by a cross pin or "fid," going through a hole in it, bored just above the lower iron. The fid when in place projects about an inch on each side.

(6199) C. E. B. asks: 1. What power will the simple electric motor have with a cast iron field magnet armature made of 4 cast iron rings with a projec-11. An elegant residence of A. B. Bigelow, Esq., at Crantion of iron between each coil, each ring insulated from ford, N. J. Perspective elevation and floor plans. each other, built, except casting, the same as in SUPPLE-MENT, No. 641? Is this a good armature for small mo tors and dynamos? How close should the armature run to field magnets? A. Properly constructed, the motor will give % horse power. Cast iron is very objectionable Crucible Co.-The slate business.-New and old for the armature. The armature wound should fit the styles of eaves troughs, illustrated.—The Weathered | field as closely as possible. 2. Are there any reliable hot water heaters.—Design for mantel and fire- rules for finding the tonnage of small boats? If so, give them. A. Measure a number of cross sections and compute insulating papers.—An improved vise, illustrated. it by regular rules for displacement. For general rules as to tonnage measurements we refer you to Haswell's "Mechanic's and Engineer's Pocket Book," \$4 by mail. 3. Where can I get the sailing rules the New York Yacht Club use in racing? A. Address the Secretary of the New York Yacht Club, 67 Madison Avenue, New York, N.Y. 4. What is the fastest time any steam vessel has ever been known to make, and what do you think is the limit? A. Ahout 31 miles an hour is claimed. The limit for practic work on long distances is about 20 miles an hour, less for most vessels, and more for large ocean ships. You have not given sufficient data for an wering your other query.

(6200) A. B. D. says: Will you please tell how to restore the color of russet shoes? 1 part, palm oil and 3 parts common soan, and heat to 100° Fah., then add 4 parts oleic acid and 134 of tanning solution, containing at least one-sixteenth of

tannic acid (all parts by weight) and stir until cold. This s recommended as a valuable grease for russet leather and as a preventive of gumming.

(6201) C. E. B. asks: 1. How many enses in a first class stereopticon and their names, from the light out? A. Generally six. Two plano-convex lenses placed near each other and near the source of light (when the latter is artificial), with their convex surfaces adjacent, but not in contact. The condenser is located between the source of light and the slide. Beyond the slide is the objective, containing (in first class instruments) the rear combination consisting of a meniscus of flint glass, with its convex side toward the slide, and a +meniscus of crown glass with its convex side toward the - meniscus, and the front combination consisting of a biconcave lens of flint glass and a biconvex lens of crown glass. 2. What are the respective sizes of lenses to make a fifteen foot picture at a distance of sixty feet? A. A half size portrait lens is commonly used. The lenses are about 21/2 inches in diameter. 3. Can a fifteen foot picture at sixty feet distance be made with an oil lamp? A. Under these conditions the picture Co will be dim and unsatisfactory. 4. Can the lantern as mentioned in query 3 be used in showing pictures in C houses wherean eight foot picture at a distance of fifteen feet is desired? If so, with what change? A. A good picture will be produced, but it will be something less than 8 feet. 5. Please give name and address of parties who sell lenses apart from the instrument. Also give names and addresses of parties who deal in strong oil lamps suited for lanterns. A. Address opticians whose advertisements appear in our columns.

(6202) O. H. says: If a certain pendulum vibrates say once in three seconds and a second pendulum once in two seconds, what rule would be required to find the ratio of the lengths of these two pendulums? What were the so-called Alabama claims spoken of in American history? A. The length of pendulums for time beats are as the squares of the time mulplied by the standard length for a given latitude. Thus for New York the standard seconds length is 39:1017 inches. For a 2 second beat the square of 2 is $4\times39\cdot1017$ =156.4068 inches and for 3 seconds is $9\times39.1017=351.9153$ inches and for half seconds 1/2=1/4×39·1017=9·7754 inches. The Alabama claims were made by the United States government against England for the destruction of American vessels by the warship Alabama, which was built and equipped in Englandfor the confederate States.

(6203) J. T. G. asks directions for making sulphate of mercury batteries, suitable for running small electric motor. A. Use a zinc and a carbon plate. No porous cupis needed. Charge with a mixture of sulphate of mercury and ammonium chloride in equal parts, mixed to a thin paste with water.

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 patentseverywhere. 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 office for prices 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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August 21, 1894,

AND EACH BEARING THAT DATE.

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Malam Irick Irick Book holder for reading stands, Anderson & Irick Boot or shoe. A. A. Collins. Boring bit, E. C. Phillips Bottle sealing device, J. S. Detrick Bottle stopper, C. O. Neudorii Box. See Axie box. Folding hox. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Brake. See Air brake. Bicvcle wheel brake. Brick mould, D. J. C. Arnold. Burial casket, M. M. Hoffmann. Camera. See Magazine camera. Can labeling machine, Tardlif & Wethered. Cans, liquid emptying device for, A. F. Chable Car coupling, Tolar & Langston. Car coupling hooks, die for forging, Wyman & Gordon. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, T. Rumrell. Car fender, T. Hommon. Car fender, Street, C. C. Rice. Car fender, Level of the Richery C. C. Borton.	524,926 524,886 524,952 524,890 524,971 524,876 524,762 524,762 524,763 524,785 524,863 524,863 524,863 524,818 524,734 524,813 524,734 524,813 524,734 524,813 524,734 524,813	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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Malam Irick Irick Book holder for reading stands, Anderson & Irick Boot or shoe. A. A. Collins. Boring bit, E. C. Phillips Bottle sealing device, J. S. Detrick Bottle stopper, C. O. Neudorii Box. See Axie box. Folding hox. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Brake. See Air brake. Bicvcle wheel brake. Brick mould, D. J. C. Arnold. Burial casket, M. M. Hoffmann. Camera. See Magazine camera. Can labeling machine, Tardlif & Wethered. Cans, liquid emptying device for, A. F. Chable Car coupling, Tolar & Langston. Car coupling hooks, die for forging, Wyman & Gordon. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, T. Rumrell. Car fender, T. Hommon. Car fender, Street, C. C. Rice. Car fender, Level of the Richery C. C. Borton.	524,926 524,886 524,952 524,890 524,971 524,876 524,762 524,762 524,763 524,785 524,863 524,863 524,863 524,818 524,734 524,813 524,734 524,813 524,734 524,813 524,734 524,813	
Malam Jrick Book holder for reading stands, Anderson & Irick Boot or shoe. A. A. Collins Boring bit, E. C. Phillips Bottle sealing device, J. S. Detrick Bottle stopper, C. O. Neendorff Box. See Axle box. Folding hox. Box fastener, D. E. J. Wellhoener. Brake. See Axle box. Folding hox. Box fastener, D. E. J. Wellhoener. Brake. See Axle box. Folding hox. Brick mould, D. J. C. Arnold. Brial casket, M. M. Hoffmann. Camera. See Magazine camera. Can labeling machine, Tardiff & Wethered. Can labeling nachine, Tardiff & Wethered. Car coupling now be blanks, making. Wyman & Gordon. Car coupling hooks, die for forging, Wyman & Gordon. Car, electric railway, J. C. Henry. Car fender, R. Thomson. Car fender, R. Thomson. Car fender, R. Thomson. Car fender, trolley of other, Bockman & Hagan. Cars anding device, H. F. Roobey. Cars, draubt rigging for platform, C. C. Borton. Carriage jack. O. W. Bowen. Carriage spring, C. A. Behlen. Carrier. See Harvester sheaf carrier. Trace	524,926 524,856 524,852 524,952 524,971 524,971 524,976 524,764 524,764 524,764 524,764 524,764 524,764 524,764 524,764 524,863 524,819 524,823 524,818 524,818 524,735 524,819 524,735 524,818 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819	
Malam Irick Irick Book holder for reading stands, Anderson & Irick Boot or shoe. A. A. Collins. Boring bit, E. C. Phillips Bottle sealing device, J. S. Detrick Bottle stopper, C. O. Neudorii Box. See Axie box. Folding hox. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Box fastener, D. E. J. Wellhoener. Brake. See Air brake. Bicvcle wheel brake. Brick mould, D. J. C. Arnold. Burial casket, M. M. Hoffmann. Camera. See Magazine camera. Can labeling machine, Tardlif & Wethered. Cans, liquid emptying device for, A. F. Chable Car coupling, Tolar & Langston. Car coupling hooks, die for forging, Wyman & Gordon. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, J. Rumrell. Car fender, T. Rumrell. Car fender, T. Hommon. Car fender, Street, C. C. Rice. Car fender, Level of the Richery C. C. Borton.	524,926 524,856 524,852 524,952 524,971 524,971 524,976 524,764 524,764 524,764 524,764 524,764 524,764 524,764 524,764 524,863 524,819 524,823 524,818 524,818 524,735 524,819 524,735 524,818 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819 524,735 524,819	

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Case, H. Peake Cash register and indicator, A. Pfaff. Cash register and indicator, C. W. Shihe ley. Cash register, indicator, and check printer. C. W. Welsa	. 524,950 . 524,836 . 524,812
Cash register, indicator, and check printer. C. W Welss Ceilings, etc., sheet metal paneling for, F. G	
Chain clasp, watch, T. Mason	524,782
Fassett. Chain, machine for making predetermine lengths of, C. F. Smith. Chair. See Barber's chair. Reclining chair.	. 524,964 d 524,794
Surgical chair. Chamfering machine, T. Craney	. 524.889 . 524,992
Chamfering machine, T. Craney. Checkrein attachment, G. W. Taylor. Cligar tip cutter and advertising device, combined, C. H. Gould. Circuit controller, E. J. McEvoy. Circuits, safety switch for bigh-potential, S. Hangis	. 524,992 524,713 524,808
Circuit controller, E. J. McEvoy. Circuits, safety switch for high-potential, S. Han	. 524,717
Clamp. See Bicycle bell clamp. Clothes drier, H. R. Sheets. Clutch, C. A. Weller. Coal scuttle, J. W. Krieger. Coffin handle, C. F. Mosman. Coin controlled mechine, H. A. Marley.	524,869 524,797
Coffin handle, C. F. Mosman Coin controlled machine, H. A. Manley Combination lock, J. H. Whittington. Commutator cylinder, A. J. Sbaw	524,786
Commutator for dynamo-electric machines, G. I	·
Card Conduit for electrical conductors, underground J. F. Cummings	1
J. F. Cummings. Conveyer, C. S. Schenck. Cork board, method of and apparatus for manu facturing, T. A. Weber. Corset busk stay, H. G. Stiebel, Jr. Cotton openers, evening mechanism for, J. Coportion of the control of	6. 524,747 . 524,874
Cotton openers, evening mechanism for, J. (Potter Counting See Car counting Flactricwire cour	524,730
Potter. See Car coupling. Electricwire coupling. Radiator coupling. Thill coupling. Crane, F. B. Griffith. Cultivator, W. W. Cox. Curtain stretcher rod and guide attachmen book car A Schulte	524,780 524,935
Curtain stretcher rod and guide attachmer hook, car, A. Schulte. Cuspidor, stationary, O. W. Smith. Cutter. See Cigar tip cutter.	it 524,972 524,913
I Decorrigating ching grass, etc., machine for J. A	١.
Lacote. Dental vulcanizer, J. H. Beebee Derrick, havelevsting, D. Oglivie Distillation, apparatus for continuous, R. A. Chese brough Door obener and closer, G. Rischmuller Door operating device, G. Rischmuller. Draught equalizer, N. H. Roberts. Drier, See Cottes drier.	
Chese brough Door opener and closer, G. Rischmuller. Door operating device, G. Rischmuller.	524,704 524,810 524,769
Dynamo regulator, automatic, H. D. Symmes Edger, bevel, S. H. Randall. Ezg case, folding, O. W. McNeill. Elastic washer, W. Heiser	524,845 524,767 524,727
retue for transforming continuous F S	1- F
Schneider.	524,911 524,881 524,706
Electrical distribution, system of, G. Westing	g-
house, Jr. Electrical testing switch, H. Smith. Electricity for light and power purposes, appratus for supplying, M. M. Kohn. Electrodes, producing, D. G. Fitz-Gerald. Electrolytic purposes, tank or cell for, F. E. & A.	524,749 524,844
ratus for supplying, M. M. Kohn. Electrodes, producing, D. G. Fitz-Gerald Electrolytic purposes, tank or cell for, F. E. & A	524,983 524,710
Electrotyping, machine for making wax form	022,010 18
For C. M. Letz. Elevator safety appliance, M. C. Fullen love. Elevators, swivel spout for, D. A. Robi uson. End gate, wagon, F. F. Varing. Engine. See Beating engine. Rotary engin	524,765 524,979 524,984 524,741
Explosive compound, G. J. Buechert. Eyerlasses, G. W. Bennum Farm gate, A. Gano	524,698
Fence ratchet, wire, J. E. Betz. Fertilizers, making, C. Weigelt. Fibor from gargen of the whole for contracting	524,775
Exercising machine, R. H. Bath. Explosive compound, G. J. Buechert. Eyegiasses, G. W. Bennum. Farm gate, A. Gano. Fence, farm, G. Rossell. Fence ratchet, wire, J. E. Betz. Fertilizers, making, C. Weigelt. Fiber from agaves, etc., machine for extractin E. Samper. Filter, H. Eisner. Filter, Jones & Test. Filter go W. Rafter. Filtering apparatus, W. Oliphant. Fire alarm system, J. W. White Fishing jig, J. E. Bacon.	524,956 524,821
Filter G. W. Rafter. Filtering apparatus, W. Oliphant. Fire alory system I. W. White	524,865 524,835
Folding box, G. H. Savacool	524,910
Furnace. See Regenerative furnace.	504,948
Gauge. See Lumber gauge. Game apparatus, C. F. Burtis. Game or puzzle. combination. W. T. Carter	524,981
Gauge. See Lumber gauge. Game apparatus, C. F. Burtis. Game or puzzle, combination, W. T. Carter. Garment pattern, adjustable, H. M. Lambright. Garment supporter, W. A. Stephen. Gas burner safety attachment, H. Eschweiler. Gas meter, dry. E. McGrady Gate. See End gate. Farm gate.	524,966 524,872 524,801
Gas meter, dry. E. McGrady. Gate. See End gate. Farm gate. Generator. See Motor generator.	524,859
Glass for skylights etc., Croskey & Locke	524,93 6 524,937 524.838
Granulating mill, T. A. Weber Grate bar, F. W. Schnautz Grinder, knife or sickle, H. C. Deane.	524,748 524,866 524,963
Gate. See End gate. Farm gate. Generator. See Motor generator. Glass for skylights etc., Croskey & Locke Glass structure, E. W. Cunning ham Glove fastener, F. F. Raymond, 2d. Granulating mill, T. A. Weber. Grate bar, F. W. Schnautz. Grinder, knife or sickle, H. C. Deane. Gun, folding magazine, A. Burgess. Gun, magazine, J. M. Browning. Handle. See Coffin handle. Non-conducting handle.	524,800 524,702
Harvester, corn, W. K. Liggett Harvester sheaf carrier and dumper, S. D. Lock	524,968 e,
Jr. Hay press, J. A. Stokeley. Heater. See Electric heater. Water heater. Hod. Brandt & Spencer. Hoisting and conveying apparatus, bucket, T.	524,991 524,771
moore	024,000
Moore. Horse checking device, J. Davie. Horses from vehicles in motion, safety device f detaching, I. Briggs	or 524.987
Hydrometer, H. S. Keating. Insulator, C. N. Hammond.	524,944 524,850
Horse checking device, J. Davie Horses from vehicles in motion, safety device f detaching, I. Briggs. Hydrocarbon motor, J. H. Knight. Hydrometer, H. S. Kealing. Insulator, C. N. Hammond. Iron. See Laundry iron. Iron. carburizing, J. Meyer. Jack. See Carriage Jack. Journal bearing, antifriction, T. Voegtli. Knob attachment, C. F. Doebler. Knob attachment, H. M. Newington. Lace clipping machine, Willcox & Range. Ladder, extension, M. B. Monroe. Lamp, electric arc, R. H. Jabr. Lamp shade, H. Hohenstein. Latch and lock combined, N. H. Colwell Laundry iron, box, Potter & Hewitt. Leather splitting machine, S. H. Randall. Locked Reg Lorden. Lorden and lock combined, N. H. Colwell Laundry iron, box, Potter & Hewitt. Leather splitting machine, S. H. Randall. Locked Reg Lorden.	524,904
Knob attachment, C. F. Doebler Knob attachment, H. M. Newington Lace clipping machine. Willow & Range	524.848 524,861 524,924
Ladder, extension, M. B. Monroe Lamp, electric arc, R. H. Jabr. Lamp bolder, electric, F. O. Farwell.	524,784 524,981 524,707
Lamp shade, H. Hohenstein Latch and lock combined, N. H. Colwell Laundry iron, box. Potter & Hewitt	524,825 524,756 524,732
Leather splitting machine, S. H. Randall Lock. See Bag lock. Combination lock. Un brella lock.	524,768 n-
Locomotive boiler, E. C. Jordan	524,901 524,898 524,930
Lung power tester and developer, J. R. Hanlon Magazine camera, A. A. Foiret Magazine camera, J. F. Parsons	524,899 524,802 524,949
Magazine camera, A. A. Foiret. Magazine camera, J. F. Parsons. Mailing tube, G. P. McIntyre. Mantel, sheet metal, J. Graves. Marble, manufacture of artificial L. Nathan. Measuring device, cloth, W. E. Clarke. Measuring device, cloth, W. E. Clarke. Measuring device, conting of Research	524,860 524,714 524,907
Measuring device, cloth, W. E. Clarke	524,755 524,900 524,736
Meter. See Electric meter. Gas meter. Milking machines, teat cup for, A. Shiels Mill. See Granulating mill. Model, folding or collapsible, F. C. Krantz Mould. See Brick mould. Motor. See Hydrocarbon motor. Railway moto Spring motor.	524,738
Mould. See Brick mould. Motor. See Hydrocarbon motor. Railway moto Spring motor.	<i>02</i> 4,000 r.
Spring motor. Motor generator, J. C. Henry. Needle threader, C. S. Goldman. Net, landing, A. Holmes. Nipple holder, J. Canney. Non-conducting handle, F. O. Farwell. Nut lock, D. M. Fulton. Nut lock, D. M. Fulton. Nut lock, B. Porter. Nut lock, Ril brace, and tie plate, combined, W. & O. P. Page. Organ sheath. mouth, H. C. Boetticher. Packing, piston rod, J. Lister. 524,8 Paper cases for inclosing cigarettes, apparat.	524,852 524,896 524,949
Nipple holder, J. Canney Non-conducting handle, F. O. Farwell Nut lock, Duane & Peck	524,777 524,708 524,778
Nut lock, D. M. Fulton Nut lock, B. Porter. Nut lock, rail brace, and tie plate, combined,	524,895 524,864 C.
W. & O. P. Page Organ sheath. mouth, H. C. Boetticher	524,809 524,700 31, 524,832
Paper cases for inclosing cigarettes, apparat for making, Dalton & Wills. Pattern See Garment pattern. Paving roller, beated, W. E. Dennison. Pencil lead, J. A. Cook. Phonograph return carriage, H. Hoeschen.	us 524,938
Pencil lead, J. A. Cook. Phonograph return carriage, H. Hoeschen.	524,769 524,757 524,761
Phonographs, coin-released actuating mechanis for, G. T. Waldron. Photograph mounts, device for cutting car with beveled edges for, B. McHugh. Pian ofortes, keyboard attachment for, P. Sobli Plck, J. Z. Cohlens	524,921 ds
District of the control of the contr	DOL. (A)
Plan of ortes, keyboard attachment for, P. Soon Plan, J. Z. Cohlens	k. 524,959 to 524,820