Electric machines, brushholder for dynamo, E.

540,073

not go outside of mechanics. The description of Hicks ballistic balance, with a "comparison of masses," is particularly to be noted as an example of the treatment given the subject by the author.

POPULAR ESSAYS UPON THE CARE OF THE TEETH AND MOUTH. By Victor C. Bell. Published by the author. 1894. Pp. 103. Price \$1.25.

It really seems to us as if this book were one which might have considerable utility. It treats of the general sensible care of the teeth, home remedies, and an excellent chapter is given in conclusion on "quackery," which is really an appeal for good work, and as such must be recommended. The book has no index, but, perhaps on account of its shortness, it hardly needs one

TELEGRAPHIST'S GUIDE TO THE NEW EXAMINATIONS IN TECHNICAL TELE-GRAPHY. Together with an appen-dix dealing with dry and secondary cells, universal battery system, direct reading battery instrument, duplex (bridge method), new system of morning testing, fast speed repeaters, etc. By James Bell, A.I.E.E.. Certified Teacher City and Guilds of London Institute. London: Electricity. Pp. 101. Price 60 cents.

PRACTICAL TELEGRAPHY. By F. E. Wessels. A book for self-instruction. 1895. Pp. 24. Price 50 cents.

The Locomotive, a monthly publication of the Hartford Steam Boiler Inspection and Insurance Company, has just completed its 15th volume Its inspectors' reports of examinations of boilers, with the defects found therein, and its notes on boiler explosions, render this little work an especially valuable one to engineers, when it is remembered that the boiler inspections number as many as from ten to twelve thousand per month. In 122,893 boilers examined last year ere condemned, and dangerous defects were found in 12,390. As might be looked for in such a publication it contains much valuable information on boiler construc

SCIENTIFIC AMERICAN

BUILDING EDITION.

JUNE, 1895.-(No. 116.)

TABLE OF CONTENTS.

- 1. A cottage at Bronxwood Park, Williamsbridge, N. Y., recently erected for Dr. Geo. P. Shirmer, at a cost of about \$2,500. Perspective elevation and floor plans. A pleasing design. A. F. Leicht, Esq., architect, New York City.
- 2. An elegant plate in colors showing a cottage at Bronxwood Park, Williamsbridge, N. Y., recently erected at a cost of \$2,200. Perspective view and floor plans. Mr. A. F. Leicht, architect, New York City. A neat design.
- 3. A cottage at Flatbush, L. I., recently erected for W. K. Clarkson, Esq., at a cost of \$5,000. Perspective elevation and floor plans. Mr. Christopher Myers, architect, New York City. A picturesque design.
- 4. A modern cottage at Bedford Park, New York City, recently erected at a cost of \$3,000. Perspective elevation and floor plans. A picturesque design. Mr. Edgar K. Bourne, architect, New York City.
- 5. The Bedford Park Congregational Church. Two perspective elevations and floor and basement plans. Cost complete, \$7,000. Mr. Edgar K. Bourne, architect, New York City.
- 6. A Colonial cottage recently erected at New Dorp. 5. I., at a cost of \$3,675, complete. Perspective elevation and floor plans. Messrs. Child & De Goll, architects, New York City. An attractive design.
- 7. A residence at Germantown, Pa. Two perspective elevations and floor plans. Cost complete, about \$10,500. Messrs. Child & De Goll, architects, New York City.
- 8. The New Theater, San Luis de Potosi, Mexico. Architect, Don Jose Noriega.
- 9. Design for a window decoration
- 10. The residence of E. P. Sandford, Esq., at Montclair, N. J. Two perspective elevations and floor plans An elegant design. Architect and builder, Mr. E. P. Sandford, Montclair, N. J.
- 11. A cottage in the English half-timbered style recently erected for F. E. Kirby, Esq., at Glen Ridge, N. J. Perspective view and floor plans. E. Rollin Tilton, designer, New York City.
- .2. Miscellaneous contents: The Hanging Gardens of Babylon.—Perspective drawings.—Concrete roofs. -Points of support.-Architects' estimates.-An improved hot water heater, illustrated .- A new invention for raising water, illustrated.-Improved paving.-The Bommer spring hinge, illustrated.-A mixing regulator for gas machines, illustrated. Adjustable sliding door track and hanger, illus trated.—Woodworker's improved vise, illustrated, —African mahogany.—A new steam and hot water heater, illustrated.-Powers' improved automatic chimney top, illustrated.-Improved wood working machinery, illustrated.

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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 examination should be distinctly marked or labeled.

(6543) D. T. W. asks: What is the ve locity of electricity, as in telegraphy? A. It depends on the delicacy of the receiving instrument and on the capacity of the line. It is fair to assume that the first faint and imperceptible disturbance goes with the speed of light (about 186,000 miles per second), but considerable time may elapse before

(6544) Machinist, Memphis, writes: If an eccentric on an ordinary stationary engine is chucked in the lathe, got dead true on the outside, turned off 1/8 or 1/4 of an inch and the straps bored out to suit, will it change the throw of the valve or not? A. The size of the eccentric does not control the throw of the valve The amount of eccentricity only is considered, whether it be a pin or a large disk.

(6545) C. A. M., Cal., writes: In laying pipe line 40 miles long, using 2 inch and 3 inch pipe which is the most practical method in laying the using 20 miles of each? Which will make the most fric tion, the 2 inch pipe at the pump end and the 3 inch at the outlet, or the 3 inch at the pump end and the 2 inch at the outlet? The pump will lift the oil 200 feet for the first half mile, then it will have a fall of 1,500 feet for 3916 miles. A. The 3 inch pipe should be laid at the nump end of the line. This will relieve the friction on therisingend of the siphon from the work of the pump, and allow the best condition for gravity flow on the long leg of the siphon. This will relieve the work of the pump to a small extent and yield the largest possible de livery at the discharge end.

(6546) B. H. T. asks: 1. Why does not more surface of plate give more current in cell? Text book says that the only difference size of cell makes is difference in internal resistance. A. It does give more current. Lowering the resistance implies at a constant voltage the development of more current. 2. What makes telegraph or telephone wire sing? A. The action of wind upon them, on the principle of the Æolian harp. Governments have done considerable in the way affording State support to colleges and universities. As a rule, anything in the nature of a substantial support received by any individual in pure science is derived from a connection with one of these institutions. There have been some government prizes, but these are of comparatively little importance.

(6547) W. H. K. asks: Which will run the easier, a 26 inch or a 28 inch bicycle, both geared to 60 inch, weight c rried the same, over ordinary roads; A. It is hard to answer this question authoritatively. We should decidedly incline to recommend the larger wheel. The larger sprocket on the rear wheel counts as an advantage, and for even gear the larger sprocket will go on the larger wheel.

(6548) D. R. W. asks: What is the best known (solid) non-conductor of sound? A. Indiarubber is about as good as any.

(6549) H. A. asks how to clean and nake smooth the outside of an upright boiler, and what kind of paint is used to paint boilers, and make them shine? A. The boiler can be rubbed smooth with a piece of pumice stone and water, then painted with black japan varnish, or, what is more commonly used, coal tar

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one tundred 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 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.

INDEX OF INVENTIONS

For which Letters Patent of the

United States were Granted		
May 28, 1895,	F	
AND EACH BEARING THAT DA [See note at end of list about copies of these pate	TE.	
Acid, making phosphoric, J. Van Ruymbeke	540,022 F 540,028 F 539,900 F	
Annunciator, F. A. Jennings	539,870 F 539,881	
Armature winding and making same, W. Hoch-	539.943 G	
Axle. axietree, and box of vehicles, J. Tagell		
Arles means for connecting motors to car. S. H.	G	
Short. Bail, bucket, W. D. Rudy Bailing press, C. D. Neeb. Band cutter and feeder, A. Johnson. Ba rel beater, Menzel & Emmitt. Battery. See Galvanic battery. Secondary bat-	540,004 G 540,183 G 539,814	
Battery. See Galvanic battery. Secondary bat-	_ 0	
tery Bed, J. B. Ryan Bed bottom attachment for invalids, Davis & Keith	540,194 G 540,016 G	
Bed bottom attachment for invalids, Davis & Keith. Bed brace, J. F. Sachs. Bedstead, P. Finley. Bedstead, W. Heyns. Beer drawing off. C. Kalser. Bell, electric. C. B. Sterling. Bell, link, W. P. Taggart. Belt tightener, A. D. Chandler. Bicycle, F. M. Bowell. Bicycle habit, H. Luey. Bicycle babit, H. Luey. Bicycle pedal, J. A. Goebler. Bicycle saddle support, E. C. Stearns. Binders, compressing and tripping device, for automaticself, W. Butterfield. Boiler. See Drop tube boiler. Steam boiler. Tubular boiler.	540,113 539,864 540,163 540,167 539,966	
Bell, electric, C. B. Sterling Bell, link, W. P. Taggart	539,966 H 540,199 H 540,088 H	
Bicycle babit, H. Lucy	540,139 E	
Bicycle saddle support, E. C. Stearns. Binders, compressing and tripping device, for	539,865 E 540,118 H 539,852 H	
Boiler. See Drop tube boiler. Steam boiler. Tubular boiler.	539.941 E	
Doot or chooseness machine for trimming F &	539,835	
Harris. Bottle nipple, nursing, S. R. King Bottle, non-fillable, Grossmann & Kliemand. Bottle stopper, W. Painter Bowling aller, W. H. Wiggins. Box. See Advertising match box. Jeweler'ssawdust box.	540.064 539,867 540,072	
Bowling alley, W. H. Wiggins. Box. See Advertising match box. Jeweler'ssaw-	540,038 I	
dust box. Box strap, J. J. Wolf. Brake shoe, W. G. Carey.	539.845 H 539.855 H 540.203 H	
Box strap, J. J. Wolf. Brake shoe, W. G. Carey. Brake shoe, J. E. Worswick. Broiler, J. I. Conklin. Broom staffs or other handles, attachment for, R.	539,857 H 539,793 H	
Dwiigh M Ugliwig	530 049	
Brush, W. Morrison Brush cup, G. J. Wohltman Brush cup, G. J. Wohltman Buckle, backband, C. C. Krouse Buildings, construction of portsble, O. Abruzzo. Buildings, construction of portsble, O. Abruzzo. Buildings, construction of portsble, O. Abruzzo. Buildings, construction, F. C. Blaisdell. Bundle tying machine, F. C. Blaisdell. Bundle tying machine, F. C. Blaisdell. Burner. See Garbage burner. Oll burner. Can opening machine W. N. Anderson. Candle bolder L. E. Resell. Car coupling, H. Cavanagh Car coupling, H. Christie. Car coupling, H. F. Forsth. Car coupling, T. F. Hodsen. Car coupling, T. F. Hodsen. Car conder, E. L. Kelly Car tender, E. L. Kelly Car fender, B. Lev. Car fender, B. Lev. Car fender, J. W. Madden. Car fender, R. Mayolini.	540,129 H 539,955 H 540,084 H	
Bundle tyling machine, P. C. Blaisdell. Buoy, bell, J. M. Babbitt et al	539,953 1 540,136 I 540,039 I	
Can opening machine. W. N. Anderson	540,099 I 589,971 I	
Car coupling, M. Cavanagh Car coupling, H. Christie	540,170 J 539,932 J 539,794 J 539,988 F 540,057 F 540,111 F 540,066 F 540,066 F	
Car coupling, J. F. Hudson Car coupling, J. A. Roosevelt.	540,057 540,111 540,000	
Car fender, B. L. Kelly.	540,101 E 540,066 I	
Carrender, B. Lev Carfender, J. W. Madden. Car fender, R. Mayolini Car fender, safety, S. C. Kindig Car fender, street, W. N. Taggart. Car fender, steeet, J. Titley. Car, military railway J. Beck Carousel, M. T. Weston. Cart, street deaning, J. H. Byram. Cart, street deaning, J. H. Byram. Cartridge belt, J. B. Williamson.	540,106 I 540,063 I	
Car fender, street, W. N. Taggart. Car fender, steeet, J. Titley. Car, military railway, J. Beck.	540,120 540,005 540,134 I	
Cart, street cleaning, J. H. Byram	540 127 539,853 539,970	
Peters. Caster, C. F. Mosman. Caster, beard Stillers! & Promon	540,221 J 540,070 I 539,832 I	
Peters. Mosman. Caster, C. F. Mosman. Celling board, Stillwell & Broman. Chain pins, machine for making, C. M. Spencer. Chair attachment, H. V. Swan. Change maker and coin assorter, registering, S. J.	539,832 I 539,964 I 540,034 I	
Taylor. Checkrein fastener. J. A. Small. Check rower. G. D. Haworth. Chimney top. E. Finch Chip breaker. S. J. Leonard. Clear tip cutter. L. C. Miner. Cigarette machine, W. Hughes. Cigarette mouthpiece, I. Voron	539,885 I 539,831 I 539,915 I	
Chimney top, E. Fincb. Chip breaker, S. J. Leonard.	540,018 1 539,919 1 539,817 1	
Cigarette machine, W. Hughes. Cigarette mouthpiece, I. Voron.	540,210 1 539,839 540,204 1	
Clasp. See Letter clasp. Clasp, C. M. & G. W. Hilliker. Clasp, T. N. Parker.	539,916 1 540,108 1	
Clevis, plow, N. P. Bolin. Clotb sponging and shrinking machine, J. Feiss Clutch frietton H. R. Stone.	539,788 539,938 1 539,833	
Coal conveyer or chute. F. Collins, Jr	589,797 I	
Coat and hat book, F. W. Carnell.	540,044 1 539.834 1 540,166 1	
Coin-controlled apparatus, G. F. W. Schultze Combination table, F. J. Merceret	540,166 1 540,195 1 540,178 1 539,990 1	
Clasp. C. N. E. C. W. Hilliker. Clasp. T. N. Parker. Clasp. T. N. Parker. Clasp. T. N. Parker. Clasp. T. N. Parker. Coloris, plow N. P. Bolin. Coloris, plow N. P. Collins, Jr. Coloris, plow N. P. Collins, Jr. Coloris, plow N. C. S. C. S. Coloris, plow N. C. S. Coloris, plow N. C. S.	539,990 1 539,879 1 540,117 1 539,925 1	
Cores, machine for covering fibrous or metal, P.	540 048	
& W. Deissler Corn shock loader, F. H. Austin. Corset steel, C. W. Linscott. Costume, theatrical, G. Casparian. Cot, folding, C. A. Blomberg. Coupling, See Car coupling. Tbill coupling. Coubling spiral coupling.	540,067	
Cot, folding, C. A. Blomberg. Coupling. See Car coupling. Tbill coupling. Vehicle Swive! coupling. Coupling. T. J. Close.	540,045 1 540,041	
Cover for garbage receptacles, etc., Darling &	539,796 539,937	
King. Crank of varying length for driving cycles, etc., jointed, A. Prunier. Cusher. See Stone crusher. Culinary utensil, J. E. Epp. Cultivator, H. W. Aubrey. Cultivatort ooth, D. K. Yorgey. Cup. See Brush cup. Cutter. See Band cutter. Cigar tip cutter. Pipe and bott cutter.	540,189	
Culinary utensil, J. E. Epp. Cultivator, H. W. Aubrey Cultivatort ooth, D. K. Yorkey	539,861 539,784 539,888	
Cup. See Brush cup. Cutter. See Band cutter. Cigar tip cutter. Pipe	1	
and bolt cutter. Cutter head, S. J. Shimer. Damper, J. E. Gaitley. Die for sheet metal mantels, J. Graves.	540,075 540,049 539,896	
Digger. See Potato digger. Disinfecting device, J. H. Werner	539,927	
for Pescheux & Paulet	540,217 539,893 540,019	
for Pescheux & Paulet. Door check, S. Frisbie. Door check, W. A. Gay. Door banger, H. L. Ferris. Door obsutter holder, C. W. Blackburn. Door selvice for opening or closing double sliding, W. R. Snead. Draught mechanism, P. Brown. Dredging machine bucket, J. M. Seward.	539,987 539,930	
ing, W. R. Snead. Draught mechanism, P. Brown. Dredging machine bucket, J. M. Seward Drier. See Tobacco drier.	540,077 540,143 539,962	
Drier. See Tobacco drier. Drill making machine, M. C. Johnson Drive wheel for elevators, carriers, or the like.	539,945	
Drive wheel for elevators, carriers, or the like, G. S. Fouts. Drop tube holler, J. Demarest. Earthenware, porous, Mitchell & Ewing. Electric alternating currents, app r tus for detarming currents, app r tus for detarming currents.	540,158 539,980 540,180	
M. von Dolivo-Dobrowolsky Elect ic cable, W. D. Gharky	539,939	

Electric machines, brush holder for dynamo, Thomson	540.035 539.886
Thomson Electric meter. Thomson. Electric meter. Thomson. Electric motor, J. B. Atwater. Electrical connection P. Reith Electrical distribution system, E. G. P. Oelschla	539,849 539,825
ger	540,216 540,168
Elevator. See Grain elevator. Water elevator Elevator safety device, W. P. Kidder Embroidering machine thread gulde. L. Abeles	540,169 539,929
Emery wheels, manufacture of, W. F. Hausman Engine. See Gas or gasoline engine.	539,868
Exercising apparatus, I. G. Kheiralla. Explosive compound, F. G. A. Broberg	539,872 540,141
Eyegiass nose piece, J. L. Borson Eyeglasses, W. N. Blanchard Fare register, Marggraff & Leisring	540,040 539,816
Electrical connection P. Reith Electrical distribution system, E. G. P. Oelschia ger. Electrical exchange, A. E. Keith, et al. Elevator. See Grain elevator. Water elevator Elevator. See Grain elevator. Water elevator Elevator safety device, W. P. Kidder. Embroidering machine thread guide, L. Abeles Emery who eels, unanufacture of, W. F. Hausmai Engine. See Gas or gasoline engine. Engine steering device, traction, F. M. Theiser Exercising apparatus, I. G. Kheirsila. Explosive compound, F. G. A. Broberg. Exergiass nose piece. J. L. Borsch Exeglasses, W. N. Blanchard. Fare register, Margraff & Leisring. Fence machine, O. P. Pierson. Fence post, G. F. Bauer. Fence, wire, J. M. Gross. Fender. See Car fender. Plant fender. Filter, S. J. Sullivan. Filter, water, D. H. Erdman. Fire excinquisher, S. Banfill. Flambeau, Gavin & McDonald. Flooring, walls, etc., istructural rrangement of, L. Pease. Flue cleaner, hammer, W. H. Tebeau. Forceps, castrating, N. Farish Froming machine, J. Clark. Fruit knife, W. S. Cooper. Fruncel. H. Strater Furnace. See Boiler furnace. Hot water for ance. Metallurgical furnace. Gelvanic battery, H. T. Jobnson. Game apoparatus, H. H. Sargent.	540,027 540,085 P.
Rosback	540,192 540,161
Filter, S. J. Sullivan Filter, water, D. H. Erdman	539,884 539,892
Fire escape, J. W. Madden Fire extinguisher, S. Banfil Flambeau, Gavin & McDonaki	539,956 539,850 539,989
Flooring, walls, etc., structural rrangement of, L. Pease.	E. 540,186 540,081
Forceps, castrating, N. Farish Forming machine, J. Clark	540,092 539,856
Funnace. See Boiler furnace. Hot water fu	539,965
nace. Metallurgical furnace. Galvanic battery, H. T. Johnson	539,871
nace. Metallurgical furnace. Gelvanic battery, H. T. Johnson. Game apparatus, H. H. Sargent. Game board, F. C. Stockdell. Game illustrating apparatus, base ball, M. Compton.	D. 540,197
Compton. Garbage burner, domestic, Taylor & McLaughi Gas or gasoline engine, G. W. Roth. Gate, J. B. Bean. Gate, J. M. Crews. Gear cutting and milling machine, automatic, H. Bultman.	in. 540,080 539,923
Gate, J. M. Crews. Gear cutting and milling machine, automatic,	540,047 F.
H. Bultman	539,792 540,208
Gold separator, C. W. Canfield	540,144 1r-
Grain cleaning and scalping machine, Royal Giles.	540,193
Grain dampener, W. H. Hill. Grain elevator and weigher, B. E. Haugen Guitar, L. F. & D. P. Boyd.	539,812 540,052 539,789
Hammer, foot power, A. S. Lockrem	539,815 540,140
Handle. See Sad iron bandle. Harness attachment, G. Beck.	540,014
Harvester ceel, M. S. Sharp Harvester reel, M. Schneider. 539,8 Hasp lock, C. T. Gibson.	328, 539,829 539,805
Hats, method of and means for blocking a banding felt, R. Eickemeyer	nd 540,219 539,997
Gold separator, electromagnetic, Gibbens & Mr Grain cleaning and scalping machine, Royal Grain dampener, W. H. Hill Grain elevator and weigher, B. E. Haugen Guitar, L. F. & D. F. Boyd Hammer, foot power, A. S. Lockrem Hammer, foot power, A. S. Lockrem Hammer, Foot power, A. B. Lockrem Hammer, Foot power, B. Boynton et al. Harness attachment, G. Boharde, Harvester, T. Gibson. Harvester, T. Gibson. Hasp lock, C. T. Gibson. Hats, method of and means for blocking a banding feit, R. Eickemeyer. Hay derrick, D. Oglivie. Heater, See Barrel heater. Electric heat Water heater. Heater and purifier, E. R. Stillwell.	er.
water neater. Heater and purifier, E. R. Stillwell. Heaters with bot water, apparatus for supplyi storage, J. F. McEiroy Heating apparatus, J. Demarest. Heating apparatus, combination, J. Demarest. Heel, W. Wass. Hitch, three horse C. N. Perkins.	ng 540,215
Heating apparatus, combination, J. Demarest. Heating apparatus, combination, J. Demarest. Heel, W. Wass.	539,979 539,978 540,126
Hitch, three horse, C. N. Perkins	539,824 0n. 539,995 539,921
Hoisting bucket, J. H. Smith Hook. See Coat and bat book. Safety book.	540,116
Healing apparatus, combination, J. Demarest. Heel, W. Wass. Hitch, three horse, C. N. Perkins. Hoisting and conveying apparatus, C. W. Nass Hoisting bucket, C. Pay. Hoisting bucket, J. H. Smith. Hook. See Coat and hat book. Safety book. Hoops, sizing and nailing barrel, L. Weidmann Horseshoe calk, J. W. Miller. Horseshoe calks, rolled metal bar for use in ming, G. W. Wemple.	540,023
Horse spreader, W. B. addrain Hose nozzle, Stanton & Moreton Hot water furnace, E. F. White Hub, box, and spindle, vehicle, D. M. Loucks, Incubator, N. McAslan Index, Hall & McChesney	540.128 540,172
Indicator. See Measure indicator. Stationin	540,050 di-
cator. Inkstand B. Fietsam	539,802 539,809
lack See Liffing tack	
Jack, 11. W. Armstrong	539.909 540.205
Inkstand B. Fietsam Inkstand id closing attachment, T. L. Harlow. Jack See Lifting lack. Jack H. W. Armstrong. Jeweler's sawdust box C. T. Bradshaw. Kitchen cabinet, J. M. Brooks. Kitchen cabinet, J. M. Brooks. Kitchen cabinet, E. A. No.	530 910
Knitting machine F A Nyo	530 910
Knitting machine, F. A. Nye. Knitting machine, A. Townsend. Knitting machine, circular, B. M. Denney. Knitting machine, thread-supplying device, J. Brewin.	539,819 539,837 540,151 C. 539,791
Knitting machine, F. A. Nye. Knitting machine, A. Townsend. Knitting machine, circular, B. M. Denney. Knitting machine, thread-supplying device, J. Brewin.	539,819 539,837 540,151 C. 539,791
Knitting machine, F. A. Nye Knitting machine, A. Townsend. Knitting machine, Circular, B. M. Denney Knitting machine, teread-supplying device, J. Brewin. Lace machine, twist. E. Cope. Ladder, clothes rack, and ironing board, cobined step. J. C. Mifflin. Lamp, electric arc. J. A. Mosher Lamp filling attachment. C. E. Van Cleef.	539,819 539,837 540,151 C 539,791 539,936 540,179 539,877 540,007 539,959
Knitting machine, F. A. Nye. Knitting machine, A. Townsend. Knitting machine, circular, B. M. Denney. Knitting machine, thread-supplying device, J. Berwin Laee machine, twist, E. Cope. Ladder, clothes rack, and ironing board, co- hined step. J. C. Miffili. Lamp, electric src. J. A. Mosher. Lamp filling attachment, C. E. Van Cleef. Lamp shade, electric, A. S. Marten. Lamps, producing incandescing bodies for e- tric, K. O. E. Trobach.	539,819 539,837 540,151 C. 539,791 539,936 540,179 539,877 540,007 539,959 ec-
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Knitting machine, F. A. Nye. Knitting machine, A. Townsend. Knitting machine, circular, B. M. Denney. Knitting machine, thread-supplying device, J. Brewin. Lace machine, twist, E. Cope	539,819 539,837 540,151 539,791 539,936 60,179 539,937 539,930 539,930 539,931 539,931 539,936 60,125 60,12
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Knitting machine, F. A. Nye. Knitting machine, A. Townsend. Knitting machine, c.rcular, B. M. Denney. Knitting machine, thread-supplying device, J. Brewin. Lace machine, twist. E. Cope. Ladder, clothes rack, and ironing board, colined step, J. C. Mifflin. Lamp, electric arc, J. A. Mosher. Lamp shade, electric, A. S. Marten. Lamp shade, electric, A. S. Marten. Lamps sproducing incandescing bodies for electric, K. O. E. Trobach. Lamps producing incandescing bodies for electric, K. O. E. Trobach. Lantern frame, C. L. Betts. Latch, gate, S. Y. Beam. Leaf turner, H. Kramer Lens, H. D. Taylor. Letter, clasp, Nedgroschl & Walters. Letter, sign, R. F. Levy. Level, plumb, W. O. Proctor. Light. See Search light. Linotype machine, P. T. Dodge. Light. See Search light. Linotype machine, O. Mergribaler. Linotype machine, O. Mergribaler. Linotype machine, O. Mergribaler. Linotype machine, C. Mergribaler. Linotype machine, C. Mergribaler. Linotype machine, E. A. Tagliabue. Liquors containing gas under pressure, apparator retailing, L. Nathan. Lock. See Hasp lock. Permutation lock. Lock-controlling mechanism, R. A. Palmer. Lock see Hasp lock. Mather. Lock see Hasp lock. Lock trike, J. B. Wells. Lock martike, J. S. Wells. Lock see Hasp lock. Mathers, Soponing too, N. E. Varney. Matrix, separable, J. Hency. Matrix, separable, J. Hander. Mechanical movement, B. Rumer & Plagman. Mechanical movement, B. R	539,819 540,151 539,361 539,366 539,367 539,368 539,366 539,366 539,366 539,367 539,368
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