See Sloane's "Arithmetic of Electricity," \$1 by mail. 3. Please tell me if it is proper to say amperage or ampage. I have heard the word pronounced both ways. A. Amperage.

(6476) J. F. B. writes: Will you give me the approximate diameter of a windmill that will develop about one horse power with a twenty mile per hour breeze? Also what would be the increase in power power. The increase of power will be a

power with a 22 mile wind.

(6477) A. C. M. asks if two of the simple electric motors described in "Experimental Science' can be put on one shaft, and what horse power they would develop together at full capacity, also how many volts and amperes would the two motors require at full 1893. load, and whether each motor should be connected separately. A. You can connect as described, and get nearly two-tenths horse power at eight volts and eight or nine amperes.

(6478) W. B. asks: What is the best way to produce the greatest amount of heat by electricity? If possible, give several ways of producing heat by electricity, and state which is the best to create the greatest amount of heat. A. All methods of producing heat by electricity are based on the arc or on plain incandescence of a conductor. For examples of the first we refer you to our Supplement, Nos. 904, 905, 901, 986, 610, 840, 635; for the latter method, used on the large scale in electric welding, we refer you to our SUPPLE MENT, Nos. 582, 682, 768, 892.

(6479) D. J. F., Newfoundland, writes: 1. What is a ship's metacenter, and how is the same found? A. The metacenter of a vessel is the point of intersection of the vertical line passing through the center of gravity of the vessel, when in its position of equilibrium, and a vertical line through the center of gravity of the water displaced when the body is careened or heeled over through any given angle, as of a vessel rolling in a sea. It is found by computing the center of gravity of the vessel as it floats when at rest, and the center of gravity of the mass of water displaced at any angle at which the vessel may be careened. The point of meeting of a vertical line from this last point at the angle of careening and the central line of the vessel is the metacenter. The height of this point above the center of gravity of the vessel is the measure of its stability. See Haswell's "Engineer's Pocket Book" for examples, \$4 by mail. 2. rosemary, 1 drachm. Melt together. Glycerine may be How is the contour of the keel of a ship found, when the substituted in part for the oil and rose water. From ou same is not straight, as is very often the case in wooden vessels? Is it found from the keelson? If so, how? which contains several hundred formulas for cosmetics. And provided the ship be laden, how is it found? A. | perfumery, toilet preparations, etc. Irregularities in keel alignment can be approximated by examination of the lines of the keelson. When irregularities are suspected, the keel blocks are made adjustable to bring them to a bearing. With a loaded vessel the problem becomes complex and may require the service of a diver. 3. How is the dead rise, which governs the height of the bilge blocks which support a ship in dry dock, found? A. The bilge blocks should be adjustable in height and angle and also be movable to their proper bearing when the keel touches the keel blocks. The dead rise must also be found by examination inside or outside. 4. Is any treatise or book published giving directions for dry-docking ships? If so, please give the name, price, and where procurable? A. There is no work on dry-docking of ships. We have one copy of Stuart's "Naval Dry Docks of the United States," now out of print, price \$6.00.

(6480) G. D. asks: Could you tell me why a permanent magnet was used in a telephone? thought it was to give tension to the diaphragm. A. It is far more sensitive than an unpolarized core.

(6481) C. W. C. asks: 1. Is the large plunge battery, Fig. 394, in "Experimental Science," sufficient to run a one horse power motor? A. No. 2. Is the dynamo described in SUPPLEMENT, No. 600, with proportions and directions given, suitable for a motor? And if so, could it be driven with above battery, and what power would it have? A. It makes a good motor and can be run with about three times this battery, and would give about 1/4 horse power for a short time only. of wave to be produced, p=any whole number. By taking The power would soon diminish. 3. How long would p=1 you will get the length for the fundamental, and the the battery run at full power on one charge? A. It would depend on the current taken from it. It would decrease rapidly after the first half hour.

(6482) H. K. M. asks: 1. How many brations per second, which you can take from any table horse power will it take to equal 1 kilowatt, or what is of the diatonic scale. Thus I is expressed in feet or a the relation between 1 horse power and 1 kilowatt? A. 'fraction of a foot. When the ratio of diameter: length 1 horse power is equal to 0.7459 kilowatts. 2. You give :: 1:12 ceases to exist or to be exceeded, an arbitrary a receipt for cleaning clothes, in Scientific American, 'formula must be used. Consult Ganot's "Physics.' of March 16, page 166. Does it make any difference how this should be mixed? If so, which should be mixed A. It makes little or no difference how the ingredients are mixed. 3. In your columns you advertise the "Kombi." Is it a success? How long will one last, and what will be expense of having negatives finished? A. Address the advertisers. They will give you all the information desired.

(6483) C. A. C. asks: 1. Which will work on the longest line (the line being metallic circuit) a Blake or a Hunning transmitter? A. We cannot undertake to pronounce upon the relative merits of the two transmitters. Both are good. The Hunning's transmitter is described in the Scientific American, vol. 64, No. 4. 2. What is the internal resistance of ordinary gravity batteries? A. Two to four ohms. 3. Some of the Scientific Americans tell how to make storage batteries. A. See Scientific American, vol. 62, No. 10; vol. 65, No. 22; vol. 68, No. 9; vol. 69, No. 20; and our Supplement, Nos. 838, 845, and 997. 4. What is a two phase alternating dynamo? A. A dynamo of the simple alternating current type produces a single phase current. By special connections it may be made to give polyphase currents. In Walmsley's "Electric Current," \$3 by mail, page 458 et seq. the production of polyphase currents is very well explained. A two phase dynamo gives a two phase current.

15 candle power incandescent lamp, as well as a 16 can dle nower lamp, can be bought, the first one needing only about 15 volts to make it give the proper light, and the second one will require some 50, 75, it give the proper light? See E. S. Greeley's Catalogue N. Y. A. The low voltage lamps are of proportionally lower resistance; hence they pass more current, so that with additional wind pressure, say of five and ten per the watts per candle power are the same in all. The cent? A. An 18 foot mill should be equal to 1 horse watts is the unit of rate of work—the volt is merely the unit of electric pressure. 2. How is the aluminum the ratio of the velocity of the wind. Thus 10 per cent | iodine battery made, what are the elements and charging fluid, and what is its lasting power and quality, both to 20 m. is 22 miles, and —=1·1, the square of which is with regard to material as well as electricity? A. Carbon and zinc are the electrodes; the excitantis a paste of the control of the con fluid, and what is its lasting power and quality, both aluminum chloride, zinc oxide, manganese dioxide and water; the depolarizer is iodine sulphide or a mixture of iodine and mercuric oxide. The battery proved unsatisfactory on the time test. The voltage was 1.4 to 1 65. An illustrated paper on the subject appeared in the Journal of the Franklin Institute for March and April,

> (6485) E. A. Le S. asks: Where can I find the results of a complete analysis of common sea water? A. The following is of sea water from the British

Water	.963-745
Sodlum chloride	. 28.059
Potassium chloride	. 0.766
Magnesium chloride	. 3.666
Magnesium bromide	. 0.029
Magnesium sulphate	. 2.296
Calcium sulphate	. 1.406
Calcium carbonate	. 0.033
—8c	chweitzer.

(6486) P. C. S. asks: How can a Leyden jar be disruptively discharged so you can get a current vibrating with extreme rapidity? If a two quart jar were charged by a battery and then discharged as above, would the current be dangerous, or will it run one of Tesla's coils? A. The ordinary discharge of a Leyden jar is of the character you describe, but as the entire duration of the discharge is very short, it cannot be used for a Tesla coil.

(6487) J. M. B. says: Will you have the kindness to give a receipt for making camphor ice? Also do you publish a book on manufacturing perfumery and cosmetics? A. 1. Oil of sweet almonds, 2 ounces; spermaceti, 4 ounces; white wax, 2 ounces; camphor 1/2 ounce; melt them over a water bath, run in moulds of proper size and form. 2. Expressed oil of almonds and rose water, each 1 pound. White wax and spermaceti, each, 1 ounce. Camphor, 2 ounces. Oil of "Cyclopedia of Receipts, Notes and Queries," price \$5,

(6488) C. H. asks: How many B. T. U. (or heat units) are there in one gallon of alcohol as compared to one gallon of coal oil? A. For a pound of alcohol the thermal units are 12,929; for a pound of petroleum, 27,531: You may take refined coal oil as of about twice the heating power of alcohol.

(6489) A. C. asks: 1. Of what number of wire and what size must I make an induction coil to lift one-third of a pound, and how much battery will be required to operate six of them at once? A. The size depends on the current you propose using. A core of one-quarter inch area must be charged with about 9,000 lines of force per square inch of section to have the desired traction, requiring perhaps twenty or thirty ampere turns. The question of leakage so complicates solenoid and straight bar calculations as to affect considerably their reliability. The ampere turns can be given by low potential batteries with low resistance coils or vice versa 2. How large and at what distance apart shall I make noles in a tube 9-16 inch in diameter to make notes of a diatonic scale, the same to be made like a small boy's cane whistle? A. Arrange them on the principle that the undulations of the notevary with the length of the pipe as determined by the position of the holes. For narrow

(1:12) stopped pipes the formula is L=(2p+1) and for

open pipes $L = \frac{p}{2}$; in which L=length of pipe, l=length other values of p will give the harmonics; 1 is obtained

by the formula $l = \frac{1120}{n}$ in which n =the number of vi-

Query No. 6406. — In your answer to R. K. B., February 23, 1895, No. 6406, I am inclined to think his trouble does not lie with dirty contacts, but with an improper adjustment. I have frequently met with the same trouble, and bell would ring when several pushes were given successively. The successive pushes I believe give an accumulative series of vibrations to the bell hammer, and if synchronized properly will finally set the bell ringing. In such cases I generally investigate the adjustment screw and find it a little too far from the contact on the spring of the vibrating armature. Thos. D. Giliespie, Pittsburg.

TO INVENTORS.

An experience of nearly fifty years, and the preparation tents 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 Statesand all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or shroad, 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.

For which Letters Patent of the United States were Granted

April 2, 1895,

	AND EACH BEARING THAT DA	ATB.	GG
1	[See note at end of list about copies of these pat	ents.j	000000000000000000000000000000000000000
	Advertising and vending machine, F. M. Archer Advertising device, P. C. Talman	536,713 536,709 536,000	G
ĺ	Advertising and vending machine, F. M. Archer Advertising device, P. C. Talman Air forcing device, G. W. Lord Amalgamator, N. L. Raber Automatic coupling, J. Emerson. Baling press, P. C. Southwick Ban jo, O. H. Olssen Battery. See Electric battery. Bedstee al. P. F. Morrohy.	536,893 536,861 536,765	GGG
	Banjo, O. H. Olesen	536,649 536,644 536,644	G
Į	Backery, See Literary backery, Bedwizer, W. C. Nichols, Bicycle with the seed of the seed of the Bicycle support, portable, R. C. Krusebke Bill'ard cue, N. Bosmann.	536,723 636,835 536, 596	B
ļ	Billier for pampuleus, magazines, etc., temporary,	526 700	B
	Binder, temporary, G. Bonneil. Bind catch, window, J.D. Johnston. Block signal, electric, N. O. Guldsmith. Block signal, electric F. P. Snow. Block signal, electric double semaphore, N.O.	536,872 536,764	BBB
	Goldsmith Blower, acrew pressure, P. Erb. Boller, P. & J. J. Meehan. Boiler case, heating, D. F. Morgan. Boiler furnace. Mambourg & House. Bollers, low water signal for steam, L. Fritz. Book lock E. E. Bragers	536,925 536,755 536,755 536,733	
	Boiler furnace. Mambourg & House. Boilers, low water signal for steam, L. Fritz Book lock, E. E. Rogers	536,884 536,988 536,659	B
	Book lock, E. E. Rogers. Book, memorandum, T. McDowell. Book, memorandum, T. McDowell. Bottle filling machine, W. E. Gallagher. Bottle thand protector, J. Hageboeck, Jr. Bottle stopper and mon nt, W. Pearce. Box. See File box. Miter hox. Novelty hox. Train order hox.	536,989 536,928 536,700	H
		•	H
	Brake. See Wagon brake. Bridge, truss, C. M. Avery. Buggy top raising and lowering apparatus, F. H. Farnham Burial caskets, making composition, H. A. Gar-	536,680 536,864	I I I
	Burial caskets, making composition, H. A. Gar- yey Burial derrick, R. R. Richmond	536,749 536,938	I I
	Button, cuff, R. H. Lewis. Button, separable. W. E. Martin. Calipers, micrometer, M. Wilcox. Camera. See Magazine camera.	636,836 536,961 636,676	Į
	Can or vessel for containing oil, etc., and pro-	E04 045	II J J
	Car brass, H. F. Schroder, Jr. Car brass, H. F. Schroder, Jr. Car controllers, switch for street, G. Valley. Car coupling, C. P. Callaway. Car coupling, R. J. Edwards. Car coupling, Glass & Cowan Car coupling, Glass & Cowan Car coupling, Kline & Gallager.	536,947 536,762 536,795 536,717	B
	Car coupling, K. J. Edwards Car coupling, Glass & Coward Car coupling, Kline & Gallager Car coupling, H. T. Renne	536,619 536,931 536,931	E
	Car coupling. L. S. Strepey. Car fender, O. Cullison. Car fender, C. P. Stimpson.	536,894 636,741 636,852 636,708	I
	Car coupling, H. L. Renne. Car coupling, L. S. Strepey Car fender, O. Cullson. Car fender, C. P. Stimpson Car fender, C. B. Stuart Car fender, C. B. Stuart Car fender, W. B. Thomas. Car entilator, M. O. Mugan. Cars, safeguard for cable or electric, G. Rischmand	536,852 536,708 536,664 536,665 536,885	I
	Cars, system of electrical propulsion for rallway.	536,70 4 536,85 5	I
	L. Dion. Cars. trolley support for electric rallway, E. B. W. Reichel Carbon dioxide, process of and apparatus for expelling. A. Mueller.	536,967 536,642	L
	Carbon dioxide, process of and apparatus for ex- pelling. A. Mueller Carousel and panoramic apparatus J. Darling. Carriage curtain banging device, S. M. Fry. Cart, road A. Brobmann.	536,853 536,868 536,776	I
	Cart, road, A. Brobmann. Cartridge beit, W. C. Brown. Cartridge loading machine, L. B. Crosby. Case. See Show case. Chain, sprocket, C. E. Fanning. Chair. See Dental chair. Checkrein, E. E. Brown.	536,685 536,863	L N A
	Chair. See Dental chair. Checkrein, E. E. Brown. Checkrein holder, F. A. Le Count. Cider compound for making P. Nickola	636,597 636,635 536,888	N N N
	Checkrein bolder, F. A. Le Count. Cder, compound for making, P. Nickols. Clgar stamping apparatus, C. T. Stetson. Clgarette machine, H. Jerstrum Clamp, See Drill clamp.		A
	Cleat for electric wiring, self-locking, F. O. Creager	036,084	A A A
	Eastman C. Wood Cloth nappling machine, C. Wood Cloth pressing machine, D. Gessuer Clothee reel. T. J. Sullivan Cobstacker, J. Q. Adams Collar, horse, W. H. Lankford Combination lock, G. W. Hill.	536,926 536,679 536,686	N N
	Colors reel. T. J. Sullivan Cob stacker, J. Q. Adams Collar, horse, W. H. Lankford Combination lock, G. W. Hill	536,971 536,825 536,959 536,831	7
	Combination lock, G. W. Hill. Composition of matter, J. A. Freeze. Compound engine, C. J. Mellin	536,987 536,641 536,796	N
	L. Richards Converter bott om, M. L. Williams Conveying apparatus, J. C. Martin	536,655 536,904 536,731 536,910	N
	Conveying apparatus, overbead, W. G. Berg Cooking fried cakes, implement for, C. E. Dunlar Cotton in form of sliver, machine for preparing loose, W. H. Goldsmith.	536,910 536,986 536,620	N N
	Conductors, terminal attachment for flexible, W. L. Richards. Con verter bottom, M. L. Williams. Conveying apparatus, J. C. Martin. Conveying apparatus, overbead, W. G. Berg. Cooking fried cakes, implement for, C. E. Dunlaß Cotton in form of sliver, machine for preparing loose, W. H. Goidsmith. Couch, E. E. Peck. Coupling. See Automaticeoupling. Car coupling. Hose coupling.	536,620 536,701	2
	Coror or etopoer for milk care etc. C. M. Wooka	526,000	0
•	Crate, popitry, Hunsinger & Ensminger Culti vator, J. H. Hoober. Curling iron, G. M. Pitner. Curtain pole, R. A. Austin. Curtain roller, J. W. Morpeth.	536,839 536,747 536,933	0 0 (
ı	Curtain policy, J. W. Morpeth. Cutter bar, D. D. Dorney. Cycles, means for securing cranks and sprocket wheels to pedal shafts of, R. F. Hall. Dental chair, W. B. Mann. Depurator, J. T. Smith	536,924 536,694 536,814	H
	Digger. See Potato digger.	000,001	Ī
	Dish de sner, J. H. Nolen, Jr. Ditching machine, tile, W. Hubertz. Dock, balanced floating, J. J. Cousins. Door hanger, B. Erskine, F. A. Hetberington. Dough dividing machine, F. A. Hetberington.	636,613	E
,	Dreukink apparatus. C. Meer	. 200.120	F
	Drier, F. G. Wiselogel Drill clamp, J. F. Forsyth Dye, black, R. Kirchhoff Dye, blue, R. Hirsch. Dye, blue, R. Kirchhoff.	536,878 536,626 536,880	I
	Dye, blue, R. Kirchhoff. Dye, blue black, R. Kirchhoff. Dynamo driven from axles of railway cars, W. Biddle	636,879 636,748 636,671 536,689	I
)	Biddle Edge burnisher, A. S. Vose Electric battery, H. W. Libbey. Electric controller, G. Valley Electric convolers, contact finger for, S. Harris. Electric generator and current director. com-		E
t	Electric generator and current director, com- bined dynamo, J. F. McEiroy Electric machine, dynamo, J. F. McEiroy Electric machines and motors, brush holder for		l
1	dynamo, G. Valley. Electric mercurial switch or contact maker, H. Lemp. Electrical transformer. M. Dickerson.	536,973 536,811 536,608	H
•	Electrol ysis, H. Blumenberg, Jr. Elevator safety device, J. Cooper Elevators, electrical controlling system for, C. O.		Ė
	Engine. See Compound engine. Steam engine. Engine reversing gear, steam, J. L. Seyfang, 536.897.	636,730	, I
•	Envelopes etc. apparatus for dispensing F E	. 000,821	į F
1	Hough Excavator bank spud. A. W. Robinson. Exhaust muffler. C. Loper Fastening. F. A. Decker. Feedwater beater. J. E. Schileper. Ferore neat H. Pros.	536,658 536,753 536,607 536,660	B
•	Fence stay, wire, P. Frantz	536,784	I
1	Fence wire coupling device, C. Schulze	536,955 536,940	H
,	File box, J. M. Webster. Filter, J. G. Sutton. Firearm. magazine. M. C. Lisle	536,673 586,942 636,960	1 6 6 6
8	Fire escape, U. F. Fitz Gerald. Fire escape, J. L. Gregory. Flashlight apparatus, G. T. Shiras. Flower packaga, H. Bailay	536,866 536,927 536,790 598 000	HOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOT
	Flower package, H. Bailey	536,823	: 5

Fork, J. Eros. Furnace. See Boller furnace.	636,862
Furnace C R Merea	536,837 536,902
Furnace, W. W. Walnright. Garment supporter. G. N. Buck. Gas and air mixer, A. L. Avery	536,599 536,945
Gas and air mixer, A. L. Avery. Gas, apparatus for manufacture of oil and water, Christiani & Griffiths. Gas machine, bydrogen, H. W. & H. W. Neal	536,681 536,759
Con somietor Tuches & Craith	536,728 536,£53
Gate, See Kallway gate.	636,881
Generator. See Electric generator. Gle mill, C Wood Gle and making same, J. A. Just	636.678 636.633
Grain binder, M. Kane.	536,633 536,991
	636,698 636,785
Grill fret work, extension, E. T. A. Akass Gultar, J. G. Bates	536,593 536,846
Guns, apparatus for filling cartridge feed beits for machine, F. E. D. Acland et al	636,591
Grain drying apparatus, W. Griesser. Grill fret work, extension, E.T. A. Akass. Gultar, J. G. Bates Guns, apparatus for filling cartridge feed belts for machine, F. E. D. Acland et al Guns, ejector mechanism for breakdown, D. M. & C. F. Lefever. Hair straightener, A. Harris. Hame hook, F. P. White.	536,636 536,802
& C. F. Lefever. Hair straightener, A. Harris. Hame hook, F. P. White. Hammer, drop, J. L. Peck. Hammok supporting frame, W. L. Parmelee. Handle. See Saw handle. Handle for fire irons and implements. C. L. Dav-	536,944 536,819 536,650
Handle. See Saw handle.	636,650
_ tou	536,800 536,788
Harvester binder, J. A. McMaster. Heat supplying apparatus, S. Turner. Heater. See Feedwater heater. Heaters with hot water, apparatus for supplying railway storage, J. F. McElroy. Heating apparatus, W. E. Gallagher. Hoisting apparatus, N. Newman. Hook. See Hame hook. Lacing hook. Hop picking machine, J. A. Whitney. Horse driver and governor, H. A. & C. S. Arnold. Horse lex protector, A. D. Headley. Hose coupling, A. L. Balley.	536, 6 67
Heaters with hot water, apparatus for supplying railway storage, J. F. McElroy	536.838
Heating apparatus, W. E. Gallagher	536,719 536,789
Hop picking machine, J. A. Whitney	536,675 536,714
Horse leg protector, A. D. Headley	536,714 536,625 536,774
Hurl stomming and sorting machine N H Tile	536,962 536,972
den	-556,801
Hydrocarbon burner, L. T. Corneli	536,779 586,617 586,783
Injector, J. Desmond Insect powder blower, S. Meren Insectleide distributer, P. W. Berridge	536,783 536,922 586,732 536,911
Instrument of penetrating darkness, baze, or fog, C. A. Potter. Insulation of electric conductors, means for the,	536,759
L. IMOD	536.657
Insulator pins, machine for making, G. R. Butler. Iron. See Curling iron.	
Ironing machine, A. Kreuter Irrigating dam, H. C. Magarrell Jack, H. W. Armstrong. Jar. See Preserving jar.	536,958 536,883 536,594
Jar noider. J. Y. Kline	536,751
Knitting machine, automatic circular, E. J.	596 616
Knitting machine, circular rib, E. Tiffany. 536,743. Knob lock, W. Tucker.	536,744 536,666 536,740 636,856
Lamp giobe shade, incandescent, L. Dion Lamp, signal, O. S. Conkin.	536,856 536,603
Lamp socket, in candescent, F. H. Soden Last block fastener, C. Calton	536,792 536,799 536,780
Knob lock, W. Theker Lacing hook and fastening, H. J. Stevens. Lamp globe shade, incandescent, L. Dion Lamp, signal, O. S. Conk in. Lamp socket, incandescent, F. H. Soden. Last block fastener, C. Calton. Lasting machine nipper isw, J. Dalpe. Lathe, screw cutting, E. Fiather. Lathe tool post, S. L. Worsley. Lathing, met allic, G. Hayes. Leather, treating, R. Owens. Lock. See Book lock. Combination lock. Knob lock. Railway switch lock. Seal lock. Lock, B. Klein.	536,780 530,615
Lathing, met allic, G. Hayes.	536,845 536,624 536,966
Lock. See Book lock. Combination lock. Knob lock. Railway switch lock. Seal lock.	
Locomotive, F. A. Haughton. S86,622. Locomotive ash pan bottom, W. J. Norton. Log carrier, A. W. Tisdale. Loom, W. F. Draper. Loom reed, W. Orr.	536,648 536,745 536,948
Loom reed, W. Orr	536,699 536,969
Loom warp stop motion, C. F. Roper	536,969 536,824 536,820
Lunricator, I. F. Zimmerman Magnaine Camera, W. D. Robinson Malling machine, Vanderlip & McAfee Manbole cover, T. P. Grezer Manure spreader, H. Watkins. Match safe, J. Coyle. Measuring device, D. E. Brentlinger. Measuring liquids, Crawford & Wylie. Metal working tool for turning axles, J. A. Don- aldson.	536,710 536,621 536,712
Match safe, J. Coyle	536,983 536,716
Measuring liquids, Crawford & Wylie	536,606
Metal working tool for turning axies. J. A. Don-	
Meter See Fluid meter	,
Meter. See Fluid meter. Micrometer, O. J. Ebert. Mill. See Gig mill.	536,859
Meter. See Fluid meter. Micrometer, O. J. Ebert. Mill. See Gig mill.	536,859 536,912 536,936
Meter. See Fluid meter. Micrometer, O. J. Ebert. Mill. See Gig mill. Mining machine, Boland & Fritz. Miter bux, M. Nicholls. Moulding, finlabling, L. R. Harsba. Motor. See Water motor.	536,859 636,912 536,936 536,804
Meter. See Fluid meter. Mill. See Gig mill. Mining machine, Boland & Fritz. Miter bux. M. Nicholis. Moulding, finlsbling, L. R. Harsba. Motor. See Water motor. Mowing machine cutter bar, G. A. Hall. Muscle tester, H. W. Wilson. Music box damping mecbanism, A. C. Jaccard.	536,859 636,912 536,936 536,804
Meter. See Fluid meter. Mill. See Gig mill. Mining machine, Boland & Fritz. Miter bux. M. Nicholis. Moulding, finlsbling, L. R. Harsba. Motor. See Water motor. Mowing machine cutter bar, G. A. Hall. Muscle tester, H. W. Wilson. Music box damping mecbanism, A. C. Jaccard.	536,859 536,936 536,936 536,804 536,771 536,808
Meter. See Fluid meter. Mill. See Gig mill. Mining machine, Boland & Fritz. Miter bux. M. Nicholis. Moulding, finlsbling, L. R. Harsba. Motor. See Water motor. Mowing machine cutter bar, G. A. Hall. Muscle tester, H. W. Wilson. Music box damping mecbanism, A. C. Jaccard.	536,859 536,936 536,936 536,804 536,808 536,834 536,815 536,761
Meter. See Fluid meter. Micrometer, O. J. Ebert. Mill. See Gig mill. Mining machine, Boland & Fritz. Mining machine, Boland & Fritz. Mining machine, Boland & Fritz. Moulding, finishing, L. R. Harsba Motor. See Water motor. Mowing machine cutter bar, G. A. Hall. Muscle tester, H. W. Wilson. Musle box damping mecbanism, A. C. Jaccard. Musleal Instrument, muitiplex stringed, W. D. Kyle. Nipple cutting machine, W. Murchey. Novelty box, C. L. Ruebs. Nozzles, mechanism for operating exhaust, E. W. Harris.	536,859 636,936 636,936 636,804 636,005 536,771 536,808 636,634 636,815 536,761
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