302		Scientitic
Mop holder, W. B. Hadley	- 1	Top, B. B. Ward
Music leaf turner Shunk & Davis 68	85,638 85,533	Tramways, automatic bucket loader for wire rope, B. C. Riblet
Music leaf turning device, G. Culley 68 Musical instrument self-playing attachment, A. E. Whitehead	85,546	Wire rope, B. C. Riblet.         685,388           Trolley, electric railway, E. R. Coon.         685,575           Truck, mill, E. Whalley.         685,702           Trunk, J. Longshore, Jr.         685,284           Urine tester, E. A. Starz         685,538
sheet therefor, pneumatic tracker for, R. A. Gally 6. Neckwear fastener, W. H. Hart, Jr. 6. Needle holder, G. H. Wartman 6.		Urine tester, E. A. Starz.       685,538         Valve, S. Warburton       685,438         Valve gear, engine, C. Robinson       685,490         Valve, hydraulic, Anawalt & Shalkowski       685,662
Nut lock, P. J. Moran	85,340 85,620	Valve reseating machine, gate, F. L. Smith 685,697 Valve, safety, J. J. Tonkin
0il burner, coal, J. G. Maris	85,407	Vehicle steering device self propelled J H
Pancreas, obtaining a preparation of the. W.		Bullard 684,570 Vehicle steering mechanism, A. Thompson. 685,540 Vehicle wheel, C. Miller. 685,627 Vehicle wheel and means for attaching rubber tires thereto, W. J. Kent. 685,450
Weber Paper feeding machine, W. Bridgewater. 68 Paper weight, S. H. Huston. 68 Peat, means for extracting roots and foreign		Vehicle wheel and means for attaching rub- ber tires thereto, W. J. Kent. Vehicles, tank filling device for steam pro- 685,626 Vending machie, H. S. Mills. 685,627 Vending machie, H. S. Mills. 685,627
Peat, means for extracting roots and foreign matter from, Sims & Davis	85,650 85,398 85,258	Vessel, cargo, Fernez & Breuer
Photograph developing apparatus, S. Quincey 6. Photographic printing apparatus, A. Pickard 68 Photography, apparatus for submarine, L. E.	85,640	& Barnhart. 685,248 Warp beam tension device, C. A. H. Reitsch 685,643 Wash tub cover, stationary, G. W. Everett 685,589
Walkins	85,463 85.458	Watchmaker's tool, R. Leusch 685,338 Water closet ventilation, W. H. Stilwell 685,493
Piling, metallic sheet, G. W. Jackson. 68 Pipe coupling, automatic, J. E. Forsyth. 68 Pipe lifter, Odette & Gosselin. 68 Pipe or rod carrier, T. G. Stiles. 68 Pipe union, G. H. Schamp. 68 Pipe union, G. H. Schamp. 68	85,447 85,267 85,385 85,387	Water purifier, J. J. Rose
Plastic compounds, preparing, C. Reisser 68	85,469	Welt grooving and beveling machine, E. E. Winkley
Plow, H. A. Bean	85,656 85,674 85,596	Wheel, J. M. Rankin         685,296           Winding apparatus, yarn or thread, Rivett         6 Oldham         685,433           Windmill regulator, H. L. Ferris         685,746         685,746           Window         F. Bradshaw         685,466         685,466
Printing press punching attachment, A. O. Hayes		Window, E. Bradshaw.         685,466           Window tightener and holder, H. D. Trefry         685,309           Wrench, J. W. Grubbs.         685,273
685,461, 68 Propelling apparatus, boat, D. R. Sheen 69 Pulley, ribbed, Galloway & Whyman 68 Pulley cylinder machine, H. Gara 68	85,437 85,680 85,374	Window       E. Bradsnaw       085,309         Window tightener and holder       H. D. Trefry 685,309         Wrench       J. W. Grubbs       685,273         Wrench       F. T. Robinson       685,349         Wrench       F. Weimar       685,544         Wrench       F. T. Verharen       685,656         Wrench       G. F. Sprague       685,698
Pulp cylinder machine, H. Gaara. 68 Pulp, reclaiming, F. A. Franklin. 68 Pulp washing machine, F. A. Franklin. 68 Pump rod balance, A. A. Koch. 68 Punch, ticket, W. E. Clow. 68 Purch, ticket, W. E. Clow. 68	85,593 85,594 85,617	Wrench jaws, producing wrought metal, T. F. Cairns 685,256
		DESIGNS.
Rail joint, C. B. Mead	85,693 85,303	Clamp or fastener member, M. E. Phillips. 35,234 Dish, W. C. Muschenheim. 35,232 Display fixture for suspenders, etc., M. Jacobs 35,247 Door check, S. L. S. Stickle. 35,240
Railway, marine, J. L. Crandall 68 Railway rail fastening, metallic, J. S. Mc-	85,714	Garment supporter, F. G. Dietz. 35,235 Hat holder, E. H. Stowell. 35,246 Hinge member, D. W. Tower. 35,238 Hoe, F. M. Solomon. 35,242 Koch, D. W. Cower. 35,232
Awley 68 Railway sleeper and chair, A. Anderson 68 Railway tie, composite, R. M. Chapman 68 Railway track cleaner or flanger, Martin &	85,392	Metal ware, branch arm for solid or plated,
Emerson         68           Reclining chair, Davis & Sturm         68           Refrigerator, J. G. Ogden         68           Refrigerator, R. Hirsh         68	85,371   85,343   85,475	Mustache guard, for drinking vessels, strainer, W. H. Snedeker
Reclining chair, Davis & Sturm 65 Refrigerator, J. G. Ogden 65 Refrigerator, R. Hirsh 65 Revolver, C. P. O'Neill 65 Resolver, C. P. Derkins 65 Rossting furnace, E. B. Parnell 65 Rossting furnace, E. B. Parnell 65	85,292 85,485 85,344	D. & A. A. Mullen       35,249         Powder box cap and stopper, C. W. Lunt       35,233         Rug, A. Petzold       35,250 to         Scraper, mud, J. N. Todd       35,243         Show case, portable, J. T. Robin       35,243         Speculum blade blank, C. J. Pilling       35,229         Spoke holder       Jackson       35,244
Rotary engine, R. Sanderson	85,646 85,722 85,411	Show case, portable, J. T. Robin 35,248 Speculum blade blank, C. J. Pilling 35,229 Spoke holder, J. Jackson 35,244 Spoons, forks, etc., handle for, G. L. Cro-
Rudder propeller, W. S. Avard	85,328 85,368 85 423	Well   Jr.   35,230
Sash balance, A. E. Hewitt. 68 Sash lock, J. A. Hasenpfug. 68 Sash lock, F. B. Townsend. 68 Saw, buck, Nicol & Lionberger. 68 Saw, buck, Nicol & Lionberger. 68 Saw, buck, Nicol & Lionberger. 68	85,469 85,700 85,291	TRADE MARKS.
Saw grinder adjusting attachment. W. A.	85,609	Boots and shoes, Frank G. Jones Shoe Co 37,242
Huff 6: Saw horse, M. A. Elliott 6: Sawmill carriage gear, E. S. Berry 6: Saw set, double action, Roberts & Mara 6: Scale, computing, H. J. Henrichson 6: Scrap bunding press. C. W. Bray 6:	85,560 85,644 85,330 85,565	wealth Shoe and Leather Company 37,241 Brushes, R. P. Martin 37,262 Chains, J. F. Sturdy's Sons 37,263 Cigarettes, cigars, and smoking and chewing
Scale, computing, H. J. Henrichson	85,350   85,657   85,264	tobacco, Universal Tobacco Company 37,246 to 37,253 Corsets, corset materials, and underwear, ladies', D. Kops. 37,237 Crackers, or biscuit, and cakes, Columbus
Separator. See Gas and Oil Separator.	85 366	Crackers, or biscuit, and cakes, Columbus Biscuit Company
Shade roller, window, G. A. Berlinghof 68 Shafting hanger, A. Weed 68 Shafting hanging and lining up instrument, R. Kinkead 68	$85,711 \\ 85,312 \\ 85,455$	Extracts, essences, oils, waters, powders, and soaps, toilet, A. Raynaud & Cie.37,255 to 37,257 Fabrics, certain named woven. Albany Felt
Shank stiffener machine, Rich & Reed	59,459	Company 37,234 Feed cutters, carriers, and land rollers, Farmers Mfg. Co. 37,265 Gloves, kid, F. Schmidt & Co. 37,238 to 37,240
Shoe horn, A. G. Williams	85 294 :	Grinding and polishing machinery, Diamond Machine Company. 37,267 Leather and leather goods, certain named, American Oak Leather Company. 37,244
Sign, transposable or changeable, L. Buckstein       60         Signature gatherer, J. E. Smyth       60         Silo door, A. Walrath       60	85,251 85,535 85,500	Oil, lubricating, Signal Oil Company37,260 Ointment, H. F. Tripp37,258
Slide gage and try square, combined, Olson	85.634	Paints or wall finishes, cold water, Muralo Company
Snap hook, breast yoke, A. R. Otterman. 68 Snap, whiffletree, H. H. Brown. 68 Soldering cans, etc., J. McGinnis. 68	85,525 85,250 85,483	Spool cotton or cotton thread, Societe Anonyme Fliature et Fliteries Reunies 37,236 Steel and steel blanks, forms, shapes, and parts, Crucible Steel Company of America 37,264
Sound recording and reproducing machine, Osten & Spalding	85,409 85,712 85,587	Thread for sewing and for making lace, L. Jachlet
Spike grooving machinery, L. Williams	85,518 85,416 85,417 85,477	LABELS.
Sling support and tripping device, E. W. Wiley, Jr. Wiley, Jr. Stanp hook, breast yoke, A. R. Otterman. 6: Snap, whiffletree, H. H. Brown. 6: Soldering cans, etc., J. McGinnis. 6: Sound recording and reproducing machine, Osten & Spalding. 6: K. Cheney 6: Speed changing mechanism, G. A. Ensign. 6: Speed regulator, G. Lombardi. 6: Spike grooving machiner, L. Williams. 6: Spike grooving machine, L. Williams. 6: Spike grooving machine, L. Williams. 6: Spike grooving machine, L. Williams. 6: Square, bevel, E. C. Duncan. 6: Square, bevel, E. C. Duncan. 6: Stacker, pneumatic, G. W. Morris. 6: Stacker, pneumatic, G. W. Morris. 6: Stacker, pneumatic, G. W. Morris. 6: Stamp mill guide, E. Major. 6: Stamp retaining device, R. F. Herold. 6: Stamp retaining device, R. F. Herold	85,372 85,369 85,628	"Bohemian," for malt extract, Western Brewery Company
Steam boiler and burner therefor, J. H. Bul-	89,418	Company
lard 6 Steam engine, C. C. Worthington 6 Steam engine, R. H. Botts 6 Steam k head, A. Hulsberg 6	X5.332 L	Reiss & Brady
Stove fuel receptacle, cooking, C. D. Orcutt 6: Straightening trough and delivery guide to cooling tables. P. Royal	85,484	"Hartford's the Best Chewing Gum," for chewing gum, Hartford Chemical Co 8,748 "Laurel," for canned goods, A. von Cotzhausen 8,752
Strainer, A. Sidoti. Street cleaning implement, A. M. Grey. 6: Streether for artists use, S. S. Gardner. 6: Sugar, producing, S. Duffner.	85,599 85,511 85,585	"Laurel," for canned goods, A. von Cotz- hausen
Switch. See Electric Switch.  Switchboard and fuse box, M. H. Johnson. 6: Switch controlling device, G. H. Hill	85,613 85,279 85,595	"Red Cross Salve." for salve. Red Cross
Synchronizer, automatic, J. Pearson. 6 Table support, F. A. Millikan. 6 Tabulating apparatus, H. Hollerith. 6 Tamp, mechanical, W. R. Crane. 6	85,689 85,608	Salve Company
Telegraph key, Shirley & Skirrow 6 Telegraph or other system, J. Burry 6 Telegraph printing J. E. Wright 6	85,301 85,571 85,390	D. Higgins
Telephone power generator, E. Krahenbuhl 6 Telephone system, secrecy, F. A. Cumings. 6 Therma electric couple Hermite & Cooper 6	85,685 85,715 85 471	PRINTS.
Thermo electric couples, manufacturing copper sulfid rods for, Hermite & Cooper. 6 Thill coupling, E. P. Bowles	I	"Autohav Shoe," for shoes, Smaltz-Goodwin Company
Thill coupling, anti-rattling, R. E. Sears., 6 Threshing machine, E. T. Shelley	85,436   85,300	
Ticket transfer, Sittner & Geery	85,536 85,649 85,364	A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be
Tires composition for mending nunctures In	ı	given. Address Munn & Co., 361 Broadway, New York.  Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars
Tool, motive fluid operated, Vaughan & John-	185,396 I	going list. For terms and further particulars

5	Top. B. B. Ward	685,311
) 1	Top, B. B. Ward Toy egg, Perkins & Irwin	685,345
1	Tramways, automatic bucket loader for wire rope, B. C. Riblet	
3 !	rope, B. C. Riblet	685,387
	Tramways, automatic dumping bucket for	
2 :	Tramways, automatic dumping bucket for wire rope, B. C. Riblet	685,388
1	Trolley electric railway E. R. Coon	685,575
3	Truck, mill, E. Whalley	685,702
	Trunk, J. Longshore, Jr	685,284
	Truck, mill, E. Whalley. Trunk, J. Longshore, Jr. Urine tester, E. A. Starz. Valve, S. Warburton	685,538
9	Valve, S. Warburton	685,438
3	Valve gear, engine, C. Robinson	685,490
l	Valve, hydraulic, Anawalt & Shalkowski Valve reseating machine, gate, F. L. Smith	685,662
5	Valve reseating machine, gate, F. L. Smith	685,697
)	Valve, safety, J. J. Tonkin	685,496
)	venicle brake, alitomatic, J. D. Boden	685,246
r	Vehicle brake, road, Allen & Schumacher Vehicle steering device, self propelled, J. H.	685,240
. (	Vehicle steering device, self propelled, J. H.	
9	Bullard	684,570
5 ¦	Vehicle steering mechanism, A. Thompson	685,540
)	venicle wheel, C. Miller	685,627
۱,	venicle wheel and means for attaching rub-	COE 450
3	Vehicle wheel and means for attaching rub- ber tires thereto, W. J. Kent. Vehicles, tank filling device for steam pro- pelled, W. B. Mason	<b>685,45</b> 0
ίl	nelled W R Mason	685,626
1	Vending machine, H. S. Mills	685,457
ιl	Vessel, cargo, Fernez & Breuer Veterinary mouth_speculum, E. W. Cannon	685,591
)	Veterinary mouth speculum, E. W. Cannon	685,710
3	Vise, screw, C. Rauhe	685,386
3	Vise, screw, C. Rauhe	
ı	& Barnhart	685,248
)	Warp beam tension device, C. A. H. Reitsch	685,643
2	Wash tub cover, stationary, G. W. Everett	685,589
ιl	Watch, stop, J. Parkinson	685,635
3	Watchmaker's tool, R. Leusch	685,338
3	Water closet ventuation, W. H. Stilwell.	685,493 685,645
7 :	Water closet ventilation, W. H. Stilwell Water purifier, J. J. Rose Water raising and distributing system, A.	000,040
1	D. Strong	685,495
7	Weather strip. B. M. Whiting	685,547
7	D. Strong	•
١.	Reid	685,641
5	Reid	
)	Winkley Wheel, J. M. Rankin Winding apparatus, yarn or thread, Rivett	685,365
;	Wheel, J. M. Rankin	685,296
1	winding apparatus, yarn or thread, Rivett	COE 499
•	Windmill negulator H I Ferris	685,433 685,716
•	Window F Predchew	685 466
)	Window tightener and holder, H. D. Trefry	685,466 685,309
•	Wrench J W Grubbs	685,273
2	Wrench, F. T. Robinson	685,349
2 .	Wrench, F. Weimar	685,544
)	Wrench, F. T. Verharen	685,656
1	Wrench, G. F. Sprague	685,698
3	Wrench jaws, producing wrought metal, T.	
1	Wrench, J. W. Grubbs. Wrench, F. T. Robinson. Wrench, F. T. Verharen. Wrench, F. T. Verharen. Wrench, G. F. Sprague. Wrench jaws, producing wrought metal, T. F. Cairns.	685,256
(		
1	DEGLONG	
1	DESIGNS.	

Clamp or fastener member, M. E. Phillips	35,234
Dish. W. C. Muschenheim	35,232
Display fixture for suspenders, etc., M. Jacobs	35,247
Door check, S. L. S. Stickle	35,240
Garment supporter, F. G. Dietz	35,235
Hat holder, E. H. Stowell	
Hinge member, D. W. Tower	35,238
Hoe, F. M. Solomon	
Knob, D. W. Tower	35,239
Metal ware, branch arm for solid or plated,	,
S. W. Babbit	35,241
Mustache guard, for drinking vessels, strain-	00,-11
er, W. H. Snedeker	35,231
Pavements, marginal protecting strip for,	,
D. & A. A. Mullen	35.249
Powder box cap and stopper, C. W. Lunt	35,233
Rug, A. Petzold	
Scraper, mud, J. N. Todd	35,243
Show case, portable, J. T. Robin	35,248
Speculum blade blank, C. J. Pilling	
Spoke holder, J. Jackson	35,244
Spoons, forks, etc., handle for, G. L. Cro-	00,=
well, Jr.	35,230
Tumblers, etc., holder for, L. M. Hooper	35,245
Vending machine case, W. D. Doremus	35,237
Weighing machine case, W. H. Pumphrey	35,236
Treigning machine case, W. II. I amplifey	00,200

#### TRADE MARKS.

Boots and shoes, certain named, Common-	,
month Shoo and Louther Company	37,241
Described D. D. Montin	27 000
Brusnes, R. P. Martin	37,262
wealth Shoe and Leather Company Brushes, R. P. Martin Chains, J. F. Sturdy's Sons	37,263
Cigarettes, cigars, and smoking and chewing	
tobacco, Universal Tobacco Company	
37.246 to	37.253
Corsets, corset materials, and underwear,	,
ladies', D. Kops	37.237
Crackers, or biscuit, and cakes, Columbus	01,201
Discust Company	37,254
Biscuit Company	37,204
Disinfectants, Societe Francaise de Desin-	
fection	37,259
Extracts, essences, oils, waters, powders, and soaps, toilet, A. Raynaud & Cie.37,255 to Fabrics, certain named woven, Albany Felt	
soaps, toilet, A. Raynaud & Cie.37.255 to	37,257
Fabrics, certain named woven. Albany Felt.	
Company	37.234
Company Feed cutters, carriers, and land rollers,	,
Formore Mfg Co	37,265
Farmers Mfg. Co	37,240
Gioves, kie, F. Schmiet & Co57,258 to	37,240
Grinding and polishing machinery, Diamond Machine Company	05.005
Machine Company	37,267
Leather and leather goods, certain named,	
American Oak Leather Company	37,244
Leather, certain named, Thomas G. Plant Co.	37,245
Oil lubricating, Signal Oil Company	37,260
Oil, lubricating, Signal Oil Company Ointment, H. F. Tripp	37,258
Paints or wall finishes, cold water, Muralo	01,200
Company	37.261
	31,201
Soles and heels, cut, Baxter, Schenkelberger	
& Company	37,243
Spool cotton or cotton thread, Societe Anony-	
me Filature et Filteries Reunies Steel and steel blanks, forms, shapes, and parts, Crucible Steel Company of America	37,236
Steel and steel blanks, forms, shapes, and	
parts. Crucible Steel Company of America	37.264
Thread for sewing and for making lace, L.	
Jachiet	37.235
Vehicles, motors, and parts thereof, road, Ajax Motor Vehicle Company	J.,200
A joy Motor Vohialo Company	37.266
A Jan Motor venicle Company	51,200

### LABELS.

	"Bohemian," for malt extract, Western Brewery Company	
	Company	8,744
ĺ	"Deliciously Stuffed Dates," for stuffed dates,	
	Reiss & Bradv	8,751
	"El Falco," for cigars, cigarettes, and to- bacco, American West Indies Trading Co.	8,746
	"Hartford's the Best Chewing Gum," for chewing gum, Hartford Chemical Co	8,748
	"Laurel," for canned goods, A. von Cotz-	8.752
	hausen "Our Edna," for shoes, L. Franc & Son	8,749
	''Peerless Pure Breakfast Cereal,'' for a cereal	
	food, P. Johnson & Co	
	lets, E. D. Basford	8,750
	"Qroil," for a medical compound, C. F.	8,756
	Schneider "Red Cross Salve," for salve, Red Cross	0,100
	Salve Company	8,758
	"Sal-Nome," for an effervescent laxative salt, Nome Chemical Company	8 757
	"Tar Heel Kidney Tea," for a medicine, C.	
	D. Higgins	8,754
	"Vista Del Ray," for cigars, Schmidt & Co.	8,740
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# PRINTS.

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"Autohav Shoe," for shoes, Smaltz-Goodwin	415
HOun Edna!! for shore I Franc & Con	414
"Pittsburg Souvenir Playing Cards," for play-	410

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Books referred to promptly supplied on receipt of price.

Winarals and Communications of the price of price. Minerals sent for examination should be distinctly marked or labeled.

(8420) G. E. D. asks: Are the exciting balls of a wireless telegraph instrument immersed or rubbed with vaseline or other oil in the best modern methods? A. No. 2. Are choking coils used in the receivers of the instruments? A. No. 3. What would the height of the wires have to be for telegraphing the distance from one and one-half to two miles? A. We think from 20 to 30 feet will answer.
4. Is it practicable to use the instruments in a city with large buildings? A. Yes.

(8421) J. F. K. writes: In answer to F. S. (8241), issue of July 6, 1901, you say there is no destructive local action between the oxide filling and the grid of a storage battery. How is this to be explained, as there appear to be all things necessary for a galvanic cell-metallic contact between different conductors and simultaneously liquid contact between the same? This has been a difficulty of which I have not been able to get the solution. A. You will find the solution in Treadwell's "Storage Battery," page 120, price by mail Local action is avoided by avoiding \$1.75. Local action is avoided by avoiding contact between the conducting grid and the liquid electrolyte. This is accomplished by having an unbroken layer of peroxide upon the surface of the grid. If this is broken by any means, the battery deteriorates by local action.

(8422) A. M. asks: Please let me know what I would need to cause the sound of a clock to be transmitted a distance of, say, 150 feet by electricity. A. A simple device would consist of a telephone transmitter in front of the clock and a receiver at the point at which you would hear the ticking.

(8423) B. F. V. writes: Will it affect the quantity of gas consumed in a building whether the gas is turned on full at the meter and partly turned off at the burners, or partly turned off at the meter and fully turned on at the burners? Assuming the same number of jets burning and the same illuminating power in both cases. A. There is a very slight difference in the volume of gas due to the pressure at the meter and the proper pressure at the burner jet, which indicates a saving of gas by the meter measurement at the higher pressure or by regulating the pressure at the burners instead of at the meter.

(8424) J. W. D. asks: 1. How long does it take to decompose one pound acidified water with a current of 100 volts? A. The time required to decompose a pound of water depends upon the amount of electricity used. If 13 1/2 amperes are used at 100 volts it will require one hour. From this the time for any other current can be found, or the current for any other time. Water is decomposed with any voltage greater than 1.47 volts. You will see then that 100 volts is very much higher than is necessary. 2. How much does it cost to run a dynamo of 1,000 volts annually, including all expenses? A. That depends upon how many amperes the dynamo is to furnish. A dynamo giving 1,000 volts might be lighting a small village, or it might be lighting a large section of your city. The cost would not be the same in both cases.

(8425) G. G. S. asks: Please inform me as to the amount of current used by (1) 1/2-inch solid carbons, (2) 1/2-inch soft core carbens, (3) %-inch solid carbons, (4) %-inch Stereopticons are usually run with 1/2-inch carbons. We have never used one with a larger carbon. The 1/2-inch carbon will carry as high as 25 amperes, but 10 to 15 amperes is the usual current for such a lamp. A %-inch carbon would carry 25-16ths as much current as a 16-inch carbon. The current would be proportional to the area of cross section of the

(8426) J. V. J. asks: 1. Why are open circuit telegraphs not used as often as closed circuits? A. The calling apparatus requires a closed circuit. 2. Can the duplex be worked on them? A. We do not know as to the possibility. Many things are possible which are not practicable. 3. Does an arc lamp when placed under water decompose? A. No. It heats the water. 4. Can a person get a shock from one carbon-zinc cell? A. Not from the battery alone. 5. Can an electric motor be driven both ways to advantage? A. Yes. Street car motors are reversed very often.

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