

THE IDEAL SIGHT RESTORER
Is Your Sight Failing?
All refractive errors, muscular trouble & chronic diseases of the Eye cured by scientific MASSAGE.

Illustrated treatise with affidavit testimonials free. Address
THE IDEAL COMPANY,
239 Broadway, New York.

BURGLARSI!
Absolute protection from Burglars and Sneak Thieves. Bedroom doors or street doors cannot be opened even after other fastenings have failed.

Bell rings violently on slightest pressure. Self-adjusting, no wires, no batteries, no screws or fastenings of any kind. Handsomely nickel-plated throughout. Indispensable to travelers in strange hotels. By mail, post-paid, \$1.00. Agents Wanted Everywhere.
STRETY ALARM CO., B. 18 Broadway, N. Y.

WHITWASH YOUR BUILDINGS
At Lowest Cost
with a Progress Universal Spraying Machine. One man can apply whitewash, calcimine, or cold water paint to 10,000 square feet of surface in ten hours, and do better work than with a whitewash brush. It is also adapted for spreading disinfectants, destroying insect pests and diseases on trees, vegetables, and other plants, extinguishing fires, washing windows, wagons, etc., and for other purposes. This machine is really a portable water works system, as it develops a pressure of over eighty pounds, and lifts the liquid more than eighty feet higher than itself. The Progress costs only \$21.00 and lasts a lifetime. It pays for itself the first year. Write for detailed description.

DAYTON SUPPLY CO., Dayton, Ohio.

A MONEY MAKER
Hollow Concrete Building Blocks, Best, Fastest, Simplest, Cheapest Machine. Fully guaranteed.

THE PETTYJOHN CO.
615 N. 6th Street, Terre Haute, Ind.

THE Nulite Vapor Gas Lamps
For Home, Store and Street
We also manufacture Table Lamps, Wall Lamps, Chandeliers, Street Lamps, Etc. 100 Candle Power seven hours ONE CENT. No Wicks. No Smoke. No Odor. Absolutely safe. THEY SELL AT SIGHT. Exclusive territory to good agents. Write for catalogue and prices.

Chicago Solar Light Co., Dept. G, Chicago

NEW YORK SCHOOL OF AUTOMOBILE ENGINEERS
Incorporated
147 West 56th Street, New York City
Under the personal direction of
PROF. CHAS. E. LUCKE, M. E., Ph.D.
School of Engineers, Columbia University

Departments include machine tool and forge shops, assembling and test shops, and every type of motor; also laboratories completely and specially equipped to teach all component parts of automobiles.

Day and Evening Classes.
SPECIAL COURSES FOR OWNERS.

HEALTHY SPARKS
are always at your command if your gas engine is equipped with an Apple Automatic Sparker. No Switches. No Wires. No Batteries for starting or running. Insures steady, reliable current, with a bright light. Can be installed easily on any engine. See that your engine has an Apple Automatic Sparker. Write The Apple Engine Mfg. Co., 38 Beaver Bldg., Dayton, Ohio.

Make Money
legitimately, positively and absolutely. Not in shares of gold mines, copper mines, or in oil wells, but in

GUARANTEED 6% INVESTMENTS
(PAYABLE SEMI-ANNUALLY)

Plus Dividends on Profits of Business secured by Real Estate in New York City and in Greater New York suburbs

Safest, Soundest and Most Profitable Investment Ever Submitted to the Public

N. Y. BRIDGE AND SUBWAY REALTY CO.
299c BROADWAY (Barclay Bldg.) NEW YORK
I. B. BROOKS President L. SMADBECK Treasurer
Established 19 Years on Broadway
REFERENCES: Banks, Commercial Agencies, Commercial Houses and Corporations.
WRITE FOR OUR BOOKLET
Clergymen, lawyers and others of unquestionable standing wanted to act as our representatives in local Towns and Cities.

NEW BOOKS, ETC.

RADIUM, RADIOACTIVE SUBSTANCES, AND ALUMINIUM. With Experimental Research of the Same. By Myron Metzzenbaum, B.S., M.D. Cleveland: The Babbitt & Crummell Company, 1905.

The results of the investigations described in this monograph constituted an exhibit at the Building of Mines and Metallurgy of the St. Louis Exposition, and received the bronze medal for Original Research into the Chemistry, Physics, and Medical Value of Radium. The monograph consists of a paper on Induced Radioactivity and Aluminium, which appeared in the SCIENTIFIC AMERICAN in 1904; of a short abstract from a chapter on Radium, Its Value in Medicine, contributed to the International Clinics; and of material collected from an article on Radium published in the Cleveland Medical Journal. Upon application to Dr. Myron Metzzenbaum, Cleveland, Ohio, a copy of the monograph will be sent free of charge.

THE AMERICAN ANNUAL OF PHOTOGRAPHY FOR 1906. Edited by Spencer B. Horn and W. I. Lincoln Adams. New York: G. Gennert, 1905. 8vo.; pp. 354. Price 75 cents in paper; \$1.25 in cloth.

The American Annual comes to us this year a splendidly-illustrated publication containing an unusual number of interesting special articles besides the customary technical formulae. Among the special articles referred to may be mentioned as particularly noteworthy the Value of Snapshots, by W. I. Lincoln Adams; How to Make Ovals, by H. M. Gassman; A Summer Outing, by E. S. Kibbe; Immersion Photography, by Dr. Miller. On such subjects as "What is Art?" and "The Broad Movement in Pictorial Photography," the discussions are too indefinite to be of much value to anyone. Still, they have their place in an annual of this kind.

ELECTROPLATING. By Paul N. Hasluck. Philadelphia: David McKay, 1905. 18mo.; pp. 160. Price, 50 cents.

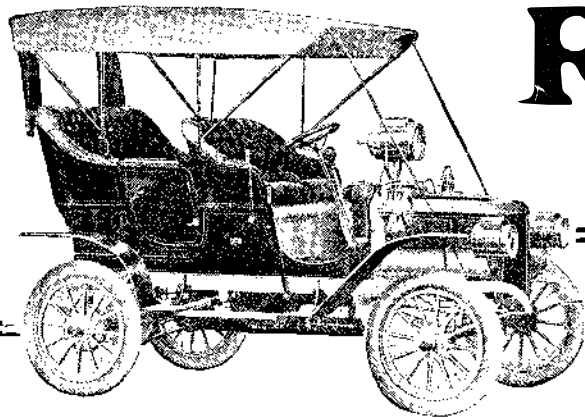
This is one of a series of handbooks edited by the Editor of Work, and contains a digest of the matter on electroplating published in this journal, to which have been added several articles by Mr. G. E. Bonney. Complete information is given concerning the tanks, vats, and other apparatus, the batteries, dynamos, and electrical accessories, and the appliances for preparing the work. Silver, copper, gold, and nickel plating are treated, as well as electroplating with various alloys.

MACHINE DESIGN. By Albert W. Smith and Guido H. Marx. New York: John Wiley & Sons, 1905. 8vo.; pp. 369. Price, \$3.

Machine design nowadays is a subject which is considered of paramount importance by the mechanical engineer, and there can hardly be too much good literature relating to this subject. The design of many machines is a result of what may be called machine evolution. The first machine was built according to the best judgment of its designer; but that judgment was sometimes wrong, and some part yielded under the stresses sustained; it was replaced by a new part made stronger; it yielded again, and again was enlarged, or, perhaps, made of some more suitable material; it then sustained the stresses satisfactorily. Some other part yielded too much under stress, although it was entirely free from actual rupture; this part was then stiffened, and the process continued until the whole machine became properly proportioned for the resisting of stresses, and it is one of the objects of this book to deal with "machine evolution." The attainment of economy is an important factor in machine design, and is also dwelt upon. Four considerations of prime importance which are treated are adaptations, strength and stiffness, economy, and appearance. The book is a most excellent one.

PHYSICS. By Charles R. Mann and George R. Twiss. Chicago: Scott, Foresman & Co., 1905. 12mo.; pp. 453. Price, \$1.25.

A great deal of time is now devoted to the subject of physics in our high-school and college classes, but the interest of students in the subject does not seem to be as great as it should be. This is largely due to the methods of teaching, because the young mind is naturally very much interested in the phenomena of nature. In the present work the subject is taken up from a new standpoint, avoiding such features of the study as have heretofore tended to befog and confuse the young student. Mathematics is used only where absolutely necessary, and, on such occasions, the equations are made so simple that the student is able to follow the logic they symbolize. Definitions are withheld until the concept is implanted in the mind, whereupon the necessity for the definition is made apparent, and is thus more firmly implanted in the memory. Throughout the entire book a questioning attitude is maintained, so that the teacher instead of maintaining a didactic attitude rather enters into the study with the student. This tends to arouse the interest of the student, and teaches him to observe the phenomena about him, and trains him to draw his conclusions and verify them by experiment. The book follows a continuity of treatment which is pursued to the final chapter. The illustrations are taken from actual photographs of the various things, so that the student is given an idea of the practical application of the subject.



REO

Honest Power Honest Price

REO Touring Car, 16 h. p., 1,600 pounds, 90-inch wheel base, 5 passengers, side-door detachable tonneau. Speed 35 miles per hour. \$1,250.

Anyone can speed-up a motor in the factory with a heavy fly-wheel, so that for a period of ten seconds it will show a high brake horse-power; but that is a mere trick. It is no test. REO rating is not "faked" in that way. It is obtained by an actual ten-hour dynamo test. It is accurate; it is honest; and, above all, it is thoroughly proven by unquestioned performance.

Those were REO cars that captured five out of seven prizes in the National six-day economy test.

It was a REO that broke the middle-weight speed record on the Syracuse race track, a REO that lowered its class record 23 minutes in the "Climb to the Clouds" up Mount Washington, and a REO that won three cups in one day on Paddock Hill, Cincinnati—beating all twenty competitors; eight of them having nearly double its rating and price.

Write for the REO book that tells why.

REO Four-seat Runabout, 8 h. p., 1,000 pounds, 25 miles per hour.

With folding seat to carry 2 extra passengers, \$675.

REO-GRAPH showing the inside of a typical motor in actual moving operation, sent to you for six cents in stamps addressed to Dept. 65.

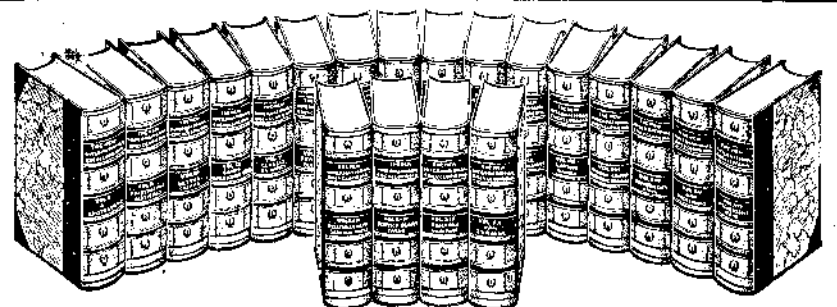
REO Motor Car Company

Sales Department, LANSING, MICH.

R. E. OLDS, President

R. M. OWEN, Manager

Agencies throughout the United States



FIGURES — FACTS

There are 30,000 more articles in The New International Encyclopaedia than in any other encyclopaedia in the English language.

There are 10,000 more biographies than in any other.

The various departments of The New International Encyclopaedia, bound separately, would make 200 average size volumes, costing hundreds of dollars.

The illustrations alone in The New International Encyclopaedia, bound together, would make a volume larger than Webster's International Dictionary. Altogether, in

THE NEW INTERNATIONAL ENCYCLOPAEDIA

there are 20 volumes, containing 16,328 pages, 67,097 titles, 20,600,000 words, 700 full-page illustrations, besides over seven thousand illustrations in the text. There are 100 full-page colored plates, 400 duotints, and 300 maps and charts, making a complete atlas of the world.

Every bit of information in The New International Encyclopaedia is of interest to the average man. There is not "as dry as an encyclopaedia" article in the entire work.

The arrangement of The New International Encyclopaedia is so simple and complete, an answer can be found on any question without an instant's loss of time.

Everyone knows the value of having an encyclopaedia to-day; The New International Encyclopaedia is the best and the most recent in existence at the present time. We want you to compare it with any other.

The matter of price need not trouble anybody.

This Coupon is Worth Two Interesting Books, Free

One is the famous 25-cent Question Book, which contains every-day questions you ought to know how to answer, but half of which you probably cannot answer off-hand. This little book is to show the usefulness and practicability of the foremost encyclopaedia in existence to-day.

The other book contains pages descriptive of The New International Encyclopaedia, specimen pages, facsimile illustrations from The New International Encyclopaedia, showing the work's scope, and the easy payment plan by which one can secure this great work without a large initial expenditure.

It will take you less than a minute to fill in the coupon. Mail it and you will receive at once these two valuable books.

DODD, MEAD & CO., Publishers, 372 Fifth Ave., New York City

SPECIAL OFFER: To anyone subscribing to

The New International in response to this advertisement within 30 days after its appearance, we will send an Extra Volume Free, entitled, "Courses of Reading and Study."

FILL IN NAME AND ADDRESS AND SEND THIS COUPON

Give me the Question Book and the New International Encyclopaedia, with the extra volume free, if you will. I will pay for the books by the following plan: I will pay \$1.00 when the books are sent to me, and the balance of \$1.00 in 10 equal payments of 10 cents each, to be paid on the 1st of each month for the next 10 months. I will also pay for the postage and handling charges.

Name.....
 Quantity.....
 Street.....
 Post Office.....
 State.....
 City.....
 Ed. Am.

CONSTRUCTIONAL STEEL WORK: BEING NOTES ON THE PRACTICAL ASPECT AND THE PRINCIPLES OF DESIGN. By A. W. Farnsworth. London: Charles Griffin & Co., Ltd., 1905. 8vo.; pp. 248. Price, \$3.50.

The employment of mild steel work is rather an innovation in Great Britain, but its use is increasing to such an extent that we are not at all surprised to see English works on the subject. The present volume also deals with an account of the methods and tools of manufacture.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending February 6, 1906.

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

Abdominal support and hose supporter, combined, N. Digney 812,120
Acid methylene acetate and making same, salicylic, F. W. S. Valentiner 811,884
Adding machine, Hinchman & Schroeder 811,920
Advertising projecting apparatus, Wetzler & Ornstein 812,105
Aging and purifying liquors, means for, R. A. Stewart 811,966
Air brake, Miller & Rote 811,863
Air brake operating device for railways, automatic emergency, J. P. Birmingham 811,687
Air brake system and automatic valve, F. B. Corey 811,765
Air coupling, automatic, Semmith & Moulton 811,961
Air cushion for vehicles, M. Downer 811,622
Air purifying apparatus, A. P. Swan 811,969
Amusement device, Keen & Ayers 811,775
Amusement device, E. S. Benedict 811,998
Anchor for guy wires, J. Blackburn 812,003
Angle iron bending machine, W. Vollmer 811,975
Automatic mixer and distributor, A. N. Somers 811,749
Automobile, E. E. Hervey 812,129
Automobile motor control, E. H. Anderson 811,533
Automobile vehicles, driving axle for, Denis & De Boisse 812,118
Baby tender, G. P. Steinbach 811,881
Bag, See Punching bag.
Balancing device, W. L. Waters 811,678
Baling machine, fiber, A. M. Sheakley 812,155
Balls from sheet metal, manufacture of hollow metallic, A. Johnston 812,135
Band cutter and feeder, Kramer & Wilson 811,932
Barrel, Melson & Marvil 812,062
Bearing, C. Glover 811,630
Bearing, ball, S. S. Eveland 811,708
Bed, baby, A. K. Taylor 812,099
Bedstead, invalid, L. J. Gronde 811,713
Belt, J. Rittel 811,794
Belt shifting for speed cones, O. Seidemann 811,799
Bin, C. Cohen 812,019
Binder, temporary, J. J. Edwards 812,121
Block molding machine, A. J. Love 811,647
Boat, high speed motor, T. H. Wheelless 811,887
Boat, life saving, A. Baumgart 811,815
Boats, construction of submarine, T. H. Wheelless 811,886
Body forming machine, A. Kent 811,566
Boiler furnace, steam, E. E. Eldred 811,626
Boiler tube cleaners, guard for, E. Mettler 811,862
Molders, tool for holding fire bricks of water tube, Heely & Keers 811,844
Bolt operating and locking mechanism, W. J. Kasselman 812,044
Book, loose leaf, G. H. Manger 811,730
Boring machine, P. H. & T. X. Adams 811,684
Bottle capping machine, Muller & Zipprich 812,068
Bottle closure, F. W. H. Clay 811,825
Bottle drip attachment, M. Petrie 811,742
Bottle labeling machine, T. Pankow 811,576
Bottle stopper, J. J. Allison 811,811
Bottle stopper, W. F. Mahony 812,058
Bottle wrapper, F. W. R. Bradford 811,989
Bottles or other receptacles, means for corking or closing, C. Schroeder 811,876
Bowling alley pin spotters or setters, guiding means for, C. L. Bastian 811,612
Box, F. R. Vernon 811,676
Box trimmer, cylindrical, W. H. Stout 811,593
Bracelet, E. Drews 811,767
Brakes and clutches, friction device for, C. W. Hunt 811,562
Brazing steel and copper, J. F. Richardson 811,954
Bride bit, A. E. Campbell 812,112
Brushing press, H. E. Marsh 811,860
Brush silling machine, F. C. Curtis 811,831
Brush holder, electrical, M. St. Clair 811,673
Bucket, clam shell, J. McMyler 811,946
Buckle, J. J. Creedon 811,548
Building block molding machine, A. A. Forbes 812,123
Building block or wall, M. Haas 811,634
Bunsen burner, gas regulating, C. E. Wirth 811,989
Button, crochet work, I. Kalliwoda 811,724
Button, hinged leaf, H. Case 811,901
Cabinet, H. F. McDonnell 812,074
Cabinet, kitchen, W. M. Henson 811,918
Cages, drinking and feeding appliance for birds, H. Quittner 811,870
Calendar, perpetual, C. P. Hildren 811,846
Camera, panoramic, J. A. Fried 812,163
Can. See Sheet metal can.
Can opener, L. Alden, Jr. 811,894
Candy holder, G. A. Wiser 812,002
Car, W. A. Caswell, reissue 12,447
Car and other like vehicle, tram, Stanley & Anger 812,097
Car announcing device, railway, A. D. Cloud 811,903
Car coupling, S. W. Wibel, et al. 811,808
Car, dump, Hart & Yost 811,717
Car, electric, L. E. Stillwell 811,907
Car fender and brake, Devin & Atkins 812,022
Car, freight, W. Meissner 812,145
Car, railway tank, G. L. Southern 812,096
Car step, D. A. Faut 811,911
Cars, chute for unloading railway, J. E. Brazeal 812,009
Carbureter for hydrocarbon engines, C. H. Claudel 811,618
Cartridge, A. H. Emery 811,910
Cartridge, blank smokeless powder, F. Sparre 812,156
Cartridge extracting implement, W. W. Pierce 812,088
Cash carrier, pneumatic tube, D. S. Hager 811,915
Cash register, W. F. Bockhoff 811,761
Catamenial bandage, E. S. Dix 811,704
Catheter, embalming, H. M. Crippen 812,020
Cellulose compound and making the same, Strehlenert & Reubold 812,098
Cement and making the same, hydraulic, C. D. Clark 811,902
Cement fence post mold, G. H. Terry 811,675
Centerless engine, Blodgett & Miller 811,688
Centrifugal machines, means for hanging overdriven, G. Dinkel 812,024
Chairs, protective attachment for infants' high, J. Kugel 811,933
Change making machine, T. S. Wilkes 812,100
Chimney cap, Colegrove & Reed 811,764
Chlorate powder, C. E. Mathews 811,941
Chuck, drill, P. J. Hoerscheid 811,722
Cigar for asthma, A. Mendelsohn 811,942
Cigar retainer and cutter, S. P. Miller 812,064
Cigarettes, machine for making all tobacco, A. H. Randall, Jr. 812,152
Closet tank, F. H. Lindenbergh 811,937
Clothes frame, C. W. Frode 812,011
Coal and like washer, W. E. Winn 811,608, 811,609



The Latest Word In Sanitation

The name Sy-Clo on a closet means health insurance for your home or any building in which the closet is placed; it means freedom from all those diseases which are usually traceable to noxious odors and poisonous gases arising from ordinary closets.

Sy-Clo stands for more than mere flushing; it stands for a wonderful syphonic action of great power—an action which literally pulls the contents of the bowl into the drain, cleansing the non-reachable parts, instantly sealing the outlet channel with a water trap to an unusual depth, and absolutely preventing all danger of gas.

The Sy-Clo Closet stands for an interior cleanliness and purity impossible in an iron closet, and unknown in any closet but one made of china—like the Sy-Clo. Hand-moulded of china all into one solid piece like a vase, the Sy-Clo is without crack, joint or rough surface to collect dirt or disease germs. It is as clean inside and out as a china pitcher, being made exactly the same way and of the same material.

The surface of the Sy-Clo Closet cannot chip off, is not affected by acid, water or wear, and hence cannot rust or discolor as an iron closet does. The Sy-Clo is strong, simple, durable; it cannot get out of order and will last, with ordinary care, as long as the house in which it is placed.

It costs but little more than the common closet, and when health and comfort are considered, it really costs less; in fact, your doctor pays the bill. Your plumber will tell you that Sy-Clo is absolutely the latest word in perfect sanitation.

Send for booklet on "Household Health"—mailed free.

POTTERIES SELLING CO., Trenton, N. J.



LATEST EDITION OF Supplement Catalogue JUST OUT!

Write for it. It costs nothing. The new Catalogue contains 65 pages and gives a list of over 17,000 articles.

If there is any scientific, mechanical or engineering subject on which you wish special information, you will find in this Catalogue some paper in which it is thoroughly discussed by a competent authority.

SCIENTIFIC AMERICAN SUPPLEMENT papers for the most part have been written by the world's most eminent engineers and scientists. They contain information that is not always accessible in books.

MUNN & COMPANY, Publishers 361 BROADWAY, NEW YORK

Coal handling plant, Patterson & Robb 812,084
Coal washer, G. S. Ramsay 811,871
Coin separating, counting, and stacking device, C. F. Hess 811,559
Collapsible reel, A. Willstein 811,898
Collar fastening, horse, P. Guincollet 811,714
Collar supporter, G. G. & B. L. Goodman 812,127
Column, A. H. Flowers 812,033
Combination rack, Oliver & Thomas 812,081
Combing machine, wool, I. Best 811,817
Combustion engine, F. Reichenbach 811,744
Compass direction of moving objects, ascertaining the, I. Kitsee 811,852
Concrete building construction, J. E. Hinchman 811,560
Concrete, reinforced, E. E. Jarvis 811,926
Concrete, reinforced truss for, E. E. Jarvis 811,927
Condensers, vacuum breaker for, E. C. Woodford 811,990
Conveyor, cable, A. M. Acklin 811,991
Cooker, continuous steam, Scott & Steinhoff 812,154
Copy holder, C. V. Shannon 811,962
Couch, extension, J. Hoey 811,921
Crate, banana, H. Rose 812,090
Crusher, P. L. Simpson 811,671
Crushers and pulverizers, cage for, M. F. Williams 811,679
Cultivator, S. E. Mallor 811,897
Current motor, single phase alternating, E. G. Lamme 811,644
Curtain pole and shade roller support, combined, E. E. French 811,629
Cutter head for wood shapers, E. Wismar 811,682
Cycles, brake for the hubs of, W. & A. Chamberlain 811,617
Dado cutter, E. Wismar 811,681
Dampener for sheet feeds or separators, C. G. Harris 811,843
Davits, attachment for boat, N. Murchison 812,069
Decorticator, F. Holtzhausen 812,041
Decoy, C. A. Samuell 811,587
Decoy duck tethering device, C. A. Samuell 811,586
Dental and surgical obturator, Moore & Hutchinson 811,864
Dental clamp, E. L. Hutchinson 811,848
Derrick table, self-feeding, V. Winn 812,106
Dial transmitter, C. F. Pearce 811,950
Dioxypyrimidin, making 4-imino-2-6, Conrad & Beckh 811,826
Dish washing machine, J. D. McElroy 811,735
Display box, fruit, G. E. Miller 811,651
Display rack, C. G. Herder 811,720
Display truck, couch, T. E. O'Brien 811,657
Door boltwork, circular, J. E. Casserly, 811,695
Doors, etc., device for securing, C. G. Taylor 811,594
Doors, pneumatic lifting means for grain, T. E. Branson 811,690
Doublet and whiffletree coupling, G. E. Rumlil 812,093
Dough raiser, W. H. Hollander 811,781
Draft equalizer, S. E. Davis 811,703
Draft forcing mechanism, J. J. Durage 811,624
Dredge, F. Yeoman 811,683
Dredger side brace or anchor, J. P. Karr 812,043
Dress pattern, printed, W. Freeman 811,770
Drier, H. E. Camp 811,821
Drill, See Rock drill.
Drill operating means, O. S. Proctor 811,791
Driving mechanism, Wilman & Loomis 811,981
Dumb bell, Mackenzie & Ross 812,144
Duplicating machine, C. E. Steere 811,674
Ejector, C. A. Dwyer 812,026
Electric conductors, branch coupling for, J. J. Dossert 811,907
Electric coupling, J. J. Dossert 811,906
Electric currents which feed electric arcs, regulation of, J. Hessberger 812,038
Electric fans, centrifuge attachment for, W. L. Moore 811,865
Electric machine, dynamo, H. G. Reist 811,792
Electric resistance element, A. L. Marsh 811,859
Electric time switch, Shatto & Denison 811,589
Electric transformer and connection, H. F. Provance 812,089
Electric waste detector, T. Murphy 811,654
Electrical control system, R. E. Bates 811,539
Electrical control system, distant, J. Gomborow 811,773
Electricity meter, electrolytic, C. O. Bastian 811,538
Electrodeposition, W. C. Arsen 811,759
Elevating device, J. C. Stirling 811,968
Elevator safety device, F. A. Weigel 811,604
Engine reversing brake, turbine, H. Lentz 811,856
Engine reversing mechanism, explosive, E. B. Robertson 811,955
Engine safety starting device, gas, A. S. Johnson 811,928
Engine starting crank, G. E. Selden, Jr. 812,094
Engines, controller for sparking devices of gas, D. E. Willix 811,680
Explosive engine, J. A. Williams 811,809, 811,888
Eyeglass mounting, H. A. Seidel 811,960
Eyeglass mounting, E. M. Card 812,113
Fascine, H. F. Kellner 812,045
Fastener and button, detachable, J. Pincus 811,661
Fastening device, I. Jackson 811,925
Faucet attachment, G. A. Olsen 812,082
Faucet lock, W. T. Dahl 812,021
Feed box, J. P. McIntyre 811,573
Feed box, J. S. H. & C. D. Stoneburner 811,592
Feed water mechanism, Loudon & Hendricks 811,939
Fence making machine, W. C. Kincaid 811,931
Fence post, G. R. Wyatt 812,109
Fence post, J. W. Kidd 812,141
Fence tie, O. D. Morse 811,866
Fiber, treating waste, U. C. Allen 811,896
Fifth wheel, M. M. Sherwood 812,095
File, J. F. Huber 812,132
Filter, L. V. Root 811,684
Fire extinguishing device, W. C. Bilz 812,001
Firearm, J. H. Wesson 811,807
Firearm handle, M. E. Eyr 812,016
Firearm, recoil operated, M. Eyr 812,015
Firearms, gas operated mechanism for, C. H. Taylor 811,595
Fishing device, W. S. Freel 811,555
Fishing reel, F. L. Dickson 812,023
Flash light cartridge, G. H. Herrmann 811,780
Flash light composition, A. Eichengrun 812,028
Floor scraper, S. A. M. Linville 812,055
Flour bleacher and purifier, R. L. Agner 812,110
Flower pot stand, adjustable, A. Graefe 812,151
Fluid operated engine, B. V. Norberg 812,169
Fluid pressure motor, F. Sage 812,169
Fly trap, W. H. Grasser 812,169
Folding box, P. O'Riley 812,659
Formaldehyde hydrosulfite and making same, E. A. Fournieux 812,124
Furnace, S. P. Grey 811,557
Furnace, J. J. & J. O'Shea 811,867
Furnace combustion chamber structure, W. McClave 812,072
Furnace draft apparatus, boiler, A. H. Mazerand 811,570
Fuse, projectile, H. C. Seddon 811,667
Fuse, shell, W. M. Kershaw 812,046
Game apparatus, G. F. Kirby 812,048
Garment supporter, R. H. Emry 811,553
Gas burner, Swimmer & Neelen 811,970
Gas controlling device, automatic, H. Schneider 811,588
Gas engine, V. G. Apple 811,757
Gas generating apparatus, Eldred & Ellis 811,706
Gas generator, C. L. Parsons 811,737
Gas generator, hydrocarbon, L. Henderson 811,845
Gas lights, antivibrator burner for incandescent, C. P. Ehmann 812,167
Gasoline lighting system, J. E. Christian 811,823
Gate, E. E. Hanken 811,558
Gearing, F. M. Stambaugh 811,751
Generator, See Gas generator.
Glass tank furnace, J. Proeger 811,952
Glass working furnace, I. A. Milliron 812,065
Governing device for gasoline engines, automatic, D. C. McCarrroll 811,734
Grain handling apparatus, E. E. Logan 811,933
Graphophone reproducer, G. A. Manwaring 811,568
Grapple fork, McLeist & Westerson 812,061
Grate bar, sectional, W. McClave 812,071
Greenhouse and other glazed structure, P. M. Pierson 811,951
Grille plate, W. S. Tuttle 812,158
Grinding machine, R. D. Fassett 812,122
Grinding mill, C. N. McLaughlin 811,945
Gun barrel for pistols, rifles, and ordnance, P. E. Kent 812,140
Gun bearing, J. J. Bayne 811,540
Gun, electric, S. T. Foster, Jr. 811,913
Gun shield, Haddfield & Jack 811,715