

NEW BOOKS, ETC.

SUBJECT LIST OF WORKS ON PHOTOGRAPHY AND THE ALLIED ARTS AND SCIENCES IN THE LIBRARY OF THE PATENT OFFICE.

A most valuable little book worthy of a considerable sale, the arrangement is admirable.

THE AMATEUR'S PRACTICAL GARDEN BOOK. By C. E. Hunn and L. H. Bailey. New York: The Macmillan Company.

A volume of the "Garden Craft Series." It is a capital book filled with exactly the information one is always wanting to know.

MODERN HOUSE PLANS FOR EVERYBODY. For Village and Country Residences, costing from \$250 to \$8,000.

To builders this work will be valuable as a handbook of reference, and to those who intend to build a home it will prove useful.

THE GAS ENGINE HANDBOOK. A Manual of Useful Information for the Designer and Engineer. By E. W. Roberts, M. E. Cincinnati, Ohio.

The book deals with American practice and is filled with valuable formulas and methods of determining mechanisms and propositions.

FIELD TESTING FOR GOLD AND SILVER. A Practical Manual for Prospectors and Miners. By W. Hamilton Merritt, F.G.S.

The more intelligent is the prospector in his line of work the greater chance of success he will have.

MODERN COMPOUNDING AND RECTIFYING. By Charles Norton. Chicago: Foote & Solomon.

There are many secrets in the distiller's business and many of them are given away in this book.

AN ELEMENTARY PHYSICS FOR SECONDARY SCHOOLS. By Charles Burton Thwing, Ph.D., (Bonn).

Prof. Thwing has prepared a text-book which occupies a unique position. It is not too elementary, nor is it too advanced for the usual secondary school.

DYNAMOMETERS AND THE MEASUREMENT OF POWER. By John J. Fletcher, Ph.B., M.M.E. Second Edition.

The author has presented in convenient form for the use of technical students and engineers a description of the construction and principles of action of the various types of dynamometer employed in the measurement of power.

THE WHY OF GRAVITY. By J. A. Allen. Alwington, Kingston, Canada. 1900. Pp. 34.

Mr. Allen's little treatise, running, as he himself admits, "counter to all ordinary habits of thought," will probably not meet with the approval of scientists.

RESULTS OF RAIN, RIVER, AND EVAPORATION OBSERVATIONS MADE IN NEW SOUTH WALES DURING 1898. With Maps and Diagrams. By H. C. Russell, Government Astronomer.

UNIVERSALGELD. Auf Grundlage des metrischen Gewichtes und des Monometallismus, vorzüglich der Silberwahrung. Eine zwanglose Plauderung von Karl Pamperl.

Business and Personal.

Marine Iron Works. Chicago. Catalogue free. For hoisting engines. J. S. Mundy, Newark, N. J.

Wanted—To buy article every body uses. Must be good seller and retail \$1. "X," Box 773, New York.

Most durable, convenient Metal Workers' Crayon is made by D. M. Steward Mfg. Co., Chattanooga, Tenn.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto.

References to former articles or answers should give date of paper and page or number of question.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.

Scientific American Supplements referred to may be had at the office. Price 10 cents each.

(7951) DeF. H. asks: 1. Can a jar filled with water and covered on the outside with tin foil and having a large wire nail passed through the cork, be used in place of a Leyden jar?

The leakage is too great, due to the moisture on the glass. This was the first form of Leyden jar ever used. It is described in many text-books and histories of electricity.

(7952) W. T. C. writes: 1. I have a 75-watts dynamo and wish to run it with storage batteries; how many will it take?

(7953) W. G. asks: 1. Can the static motors described in the SCIENTIFIC AMERICAN of February 25, 1899, and August 11, 1900, be used with an induction coil?

(7954) J. G. W. H. asks: Please state the theory and principles by which the electrical receiver of a radiophone is governed?

ten cents each. Ganot's "Physics," last edition, price \$3, treats this subject quite fully.

(7955) C. A. P. asks: What I want to know is this: What effect has the electro-magnet on the electric arc to cause it to be extinguished in the controller and to be deflected in the arc welding stem?

(7957) C. W. N. writes: I noticed in your issue of July 28, under Notes and Queries (7924), E. R. asks: Is the gage of iron and steel wire the same as copper?

TO INVENTORS.

An experience of over fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending AUGUST 28, 1900, AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

- Acid and making same, urea derivative of amidonaphthol sulfonic, Israel & Kothe..... 656,646
Adhesive product, G. Eichelbaum..... 656,884
Air compressor, E. Hurn..... 657,025
Air or gas engine, R. H. Little..... 656,823
Apparatus for removing material from below the surface, H. F. Kunk..... 656,994
Automobiles, multiple motor system for, J. Frier..... 657,046
Awning, G. Salguist..... 656,073
Back pedaling brake, W. E. Henry..... 657,788
Badge, B. Harris..... 656,970
Bag, See Water bag.
Baling press, D. Dige..... 656,767
Baling press, J. Kerns..... 656,983
Band or cord tie, E. C. Burnett..... 656,937
Basket, fisherman's frog, B. F. McCurdy..... 656,655
Batteries, charging stand and contact for storage, G. H. Condit..... 656,882
Battery box, L. B. Jeffco..... 656,980
Bed, folding, L. B. Jeffco..... 656,980
Bell, alarm, E. A. Newhall..... 656,851
Bell, signal, C. J. E. Fleck..... 656,768
Belt and apron and carrying shaft for same, endless feed, L. Holland-Letz..... 656,644
Belt, apparel, M. Schuer..... 656,695
Belt, apparel, A. W. Gardner..... 656,918
Belt or strap fastener, driving, F. E. Whitham..... 656,757
Bicycle attachment for leading bicycles, McDonald & Davis..... 656,938
Bicycle frame, F. A. Wilmot..... 656,735
Bicycle handle bar pillar, J. S. Dikeman..... 656,859
Bicycle, hood, G. C. Lauer..... 656,837
Billiard cue fastener, W. Hess..... 656,973
Bismuth from ores containing bismuth oxides, etc., extracting, J. Ranald..... 657,036
Blackboards, etc., composition of matter for, L. O'Brien..... 657,001
Blind fastener, S. A. Reynolds..... 657,041
Blind fastener, S. A. Lewis..... 656,847
Boiler cleaner, F. A. Doughty..... 656,953
Book, account, J. H. Rand..... 656,662
Bottle fastener, elastic milk, J. B. Kimber..... 656,894
Bottle, non-refillable, A. Sommerfeld..... 656,671
Bottle stopper, N. G. Baldwin..... 656,839
Bottle stopper, C. Marchand..... 656,498
Bottle stopper, mucilage, C. W. Biagg..... 657,051
Bottles, flasks, etc., manufacturing, C. Boucher, Aine..... 656,876
Box, See Hat box. Miter box. Paper box. Brake. See Back pedaling brake. Elevator regulating brake. Ratchet brake. Vehicle brake. Branding composition, H. Gibson (reissue)..... 11,849
Braiding lamp, jeweler's, H. L. McCormack..... 656,654
Brick kiln, J. M. Gunkle..... 656,640
Brick machine, re-press, C. Chambers, Jr..... 656,890
Brick machine, re-press, Chambers & King..... 656,879
Brick machine, re-press, H. K. King..... 656,896
Brick press, Simpson & Redfield..... 656,733
Bridle irons, machine for bending, J. Buckley..... 656,936
Broom, H. W. Hodze..... 656,976
Broom, street, J. Wolf..... 656,686
Bucket or pail closure, D. E. & P. B. M. Trainer..... 657,045
Bucket, scoop, G. C. Lauer..... 656,837
Buckle, combination pulley and sash, J. Brower..... 656,951
Building, C. F. W. Doehring..... 656,951
Bulkhead doors, apparatus for operating, W. B. Cowles..... 656,947
Bunk, barrel, H. Strothenke..... 656,734
Burner, See Cactus burner.
Butt, etc., machine for printing, A. C. Dodge..... 656,711
Butter molding and cutting apparatus, L. L. Mivelaz..... 656,745
Cabinet, kitchen, Steinicke & Bauer..... 656,861
Cable banger, C. E. Beard..... 656,923
Cactus burner, J. W. Snowden..... 657,036
Caisson, W. H. McFadden..... 656,850

- Camera, photographic, C. A. Wiley..... 656,788
Can. See Sheet metal can.
Cane mill, O. B. Sullivan..... 656,494
Capo tash, O. M. Fletcher..... 656,743
Capstan, F. S. Mantion..... 656,736
Car coupling, W. E. Alexander..... 656,736
Car coupling, C. Bickmeier..... 656,926
Car coupling, J. Kelson..... 656,844
Car coupling, T. Kleimeier..... 656,884
Car coupling, auto, Omatoc, Munro..... 656,824
Car door, J. Van Slyke..... 656,888
Car door fastener, Smith & Delano..... 656,860
Car, freight, W. A. Caswell..... 657,021
Carbon brush, W. A. Markey..... 656,652
Card case, H. Bick..... 656,225
Carding engine under screen, F. White..... 656,871
Carpet stretcher, E. W. Doolittle..... 656,632
Case. See Card case.
Caster support, G. D. Clark..... 656,628
Casting apparatus, metal, W. J. Patterson..... 657,071
Casting metal, W. J. Patterson..... 657,070
Centrifugal machine, L. J. Taylor..... 657,069
Chain, H. J. Straker..... 656,677
Chair. See Combination chair. Window chair.
Chimney raising device, W. M. Hoerle..... 656,881
Churn, Kister & Wood..... 657,008
Clear rolling board, S. A. Shelly..... 657,013
Circuit breaker, E. Thomson..... 656,826
Clamp. See Pipe clamp. Rail clamp.
Cleaner. See Boiler cleaner. Flue cleaner.
Clevis, W. P. Hendon..... 656,890
Clothes drier, S. V. Douglas..... 656,693
Clothes pin, C. M. Bowman..... 656,906
Clothes pin, J. F. Matthews..... 656,724
Clutch, friction, E. Noble..... 656,833
Coal and ores, apparatus for treating, J. W. Kenevel..... 656,833
Coat hook, locking, J. C. Backus..... 656,688
Cock, J. Morrison..... 656,991
Combination chair, M. Bellisle..... 656,765
Converter, cable, Cruickbank & Luther..... 656,949
Conveyer, endless, Acklin & Paterson..... 657,048
Corn shield, M. Straussberg..... 656,882
Corset, apparel, A. H. Wade..... 656,913
Corset cover, H. G. Steely..... 656,754
Cotton press, R. R. Face..... 657,028
Coupling. See Car coupling. Hose coupling.
Pipe coupling. Thill coupling.
Coupling for vehicles, wagons, etc., B. K. Thomas
Cover for cooking utensils, C. H. Pimlott..... 656,855
Crank pins and eccentrics, quartering and turning machine for, L. H. Moran..... 656,903
Cross tie and rail fastening, metallic, A. E. Allen..... 656,799
Crusher. See Roll crusher.
Cue tip, T. Reminger..... 656,702
Cultivator, L. C. Young..... 656,920
Current generator, alternating, C. S. Bradley..... 656,806
Curtain fixture, H. M. Stevenson..... 657,014
Curtain pole attachment, E. Platte..... 656,856
Custom filing and shaping device, F. L. Myers..... 656,874
Cuspider, R. Carson..... 656,939
Cycle saddle, J. Nord..... 656,854
Dampener regulator and ventilator, combined, F. L. Kink..... 656,895
Dental impression cup, H. D. Osgood..... 657,022
Detector bar, E. H. Higginson..... 656,826
Disinfectant, Mortimer & Williams..... 656,922
Display receptacle, H. T. Loomis..... 656,723
Ditching and grading machine, automobile, M. G. Bunnell..... 656,715
Door, J. M. Leaver..... 656,741
Door equalizer, W. T. Tobey..... 657,017
Door shutting device, hydraulic, M. Paldansy..... 656,959
Draft regulator, W. B. Fowler..... 656,916
Drawers, apparel, J. R. White..... 656,916
Drier. See Clothes drier.
Driving apparatus, W. J. Le Barron..... 656,985
Dye and making same, blue anthraquin, R. E. Schmidt..... 656,668
Dye and making same, blue anthraquin, Schmidt & Tust..... 656,670
Dye and making same, blue chrysoazin, K. E. Schmidt..... 656,669
Dye and making same, blue chrysoazin, Schmidt & Tust..... 656,730
Dye and making same, blue tetrazol, Bammann & Davidis..... 656,619
Dye and making same, orange, F. Scholl..... 656,858
Dye and making same, violet cotton, R. Demuth..... 656,831
Dye and making same, yellow, F. Scholl..... 656,867
Dye and making same, yellow, azo, F. Scholl..... 656,859
Dye, blue, substantive, J. Bammann et al..... 656,820
Dye, brown, Herzberg & Hansmann..... 657,064
Dye, reddish-brown, Herzberg & Hansmann et al..... 657,065
Dyestuff and making same, azo, J. Bammann et al..... 656,821
Electric furnace, W. Borchers..... 656,930
Electric motor, E. J. Henry..... 656,873
Electric motor suspension, G. Gibbs..... 656,836
Electric switch, R. H. Wappler..... 656,870
Electric switch, fluid operated, C. A. Eck..... 656,716
Electrical distribution system, A. D. Lunt..... 656,650
Electrical distribution system, E. Thomson..... 656,680
Electrical apparatus, treating porous material used for, W. A. Markey..... 656,651
Electrical translating devices, means for controlling energy delivered to, H. W. Leonard..... 656,821
Electrolysis apparatus, P. Schoop..... 657,012
Elevator regulating brake, automatic, H. Graves..... 656,828
Elevator safety device, T. Schindler..... 657,028
Embroidering machine attachment, J. Grubman..... 656,967
End gate, M. Warner..... 656,915
End gate fastener, H. Keller..... 656,720
Engine. See Air or gas engine. Locomotive engine. Rotary engine.
Engine starting mechanism, explosive, C. H. Blomstrom..... 657,055
Engraving machine, C. Chevalier..... 656,940
Envelop, B. A. Brown..... 656,932
Envelop, H. Trenchard, Jr..... 657,018
Equalizer, three-horse, J. F. Steward..... 657,038
Exhaust bed, Maranvil & Warden..... 656,989
Extractor. See Fence post extractor.
Eyebars, making forked, W. S. Bidle..... 656,712
Eyeglasses, L. F. Airt..... 656,709
Eyeglasses, J. J. Clairmont..... 656,881
Fan motor, H. Sommerfeld..... 656,724
Face register, W. L. Brownell..... 657,020
Feed roll, F. Good..... 657,020
Feed water heater, J. Mertes..... 657,027
Feeding live stock, manger for, I. Morris..... 656,655
Fence post extractor, F. Morgenthaler..... 656,747
Firearm, W. V. Bleha..... 657,052
Firearm rear sight, E. B. Tolman..... 656,867
Fire escape, J. F. Scott..... 656,842
Fire extinguisher, A. C. Badger..... 656,873
Fire extinguishing apparatus, dry pipe, J. H. Derby..... 656,837
Flue cleaner, steam jet, H. I. Coggeshall..... 656,945
Folding machine packing device, H. K. King..... 656,898
Furnace. See Blast furnace. Furnace. Electric furnace. Hot air furnace.
Gage. See Raker gage. Work gage.
Game, M. Bray..... 656,877
Game or puzzle, T. R. Geisel..... 656,896
Garment hook, L. V. Stiekney..... 657,015
Gas generating device, gasolene, S. Joseph..... 656,864
Gas generator, acetylene, E. S. Titus..... 656,863
Gas, making acetylene, E. S. Titus..... 656,863
Gases, igniting body for automatic ignition of combustible, L. Pierson..... 657,004
Gate. See End gate. Safety gate.
Gates at predetermined intervals, appliance for automatically actuating farm, W. G. Cockerill..... 656,812
Gear mechanism, C. H. Blomstrom..... 657,057
Gear mechanism, reversing, C. H. Blomstrom..... 657,056
Generator. See Current generator.
Grading device, automatic, G. W. Davault..... 656,890
Grease spot remover, J. M. Levy..... 656,817
Grinding machine, E. B. Roth..... 656,964
Grinding mill, T. Cascaden, Jr..... 656,809
Gun, magazine, B. Burton..... 656,807
Gun sight, E. B. Tolman..... 656,866
Guns, single trigger mechanism for breakdown, W. M. Levy..... 656,822
Hammock, H. Gundlach..... 656,639
Hanger. See Cable hanger.
Harrow and cultivator, combined, J. D. Magee..... 656,988
Harrow seat attachment, O. W. Skorkowsky..... 657,036
Harrow tooth, J. Kraus..... 656,722
Harvest carrier, F. B. Bickel & Maul..... 656,842
Harvester, corn, E. S. Bowker..... 656,714
Harvester for peas, beans, etc., Whitney & Glenn..... 656,890
Harvesting machine, H. Brackebush..... 656,890
Harvesting machine, corn, A. Steiner..... 656,875
Harp, W. K. Hilton..... 656,817
Hat box, J. J. Cannan..... 657,061
Hat shaping machine, C. W. Young..... 656,708
Hat tip, L. Weisenburger..... 656,706
Hay and stock rack, combined, J. H. King..... 656,770
Hay derrick, folding, D. H. Clark..... 656,941
Heading machine, C. W. Durchschlag..... 656,782
Heater. See Feed water heater. Steam heater. Water heater.
Hobby horse and invalid's chair, combined, A. J. Branham..... 656,738
Hoisting device, J. Laursen..... 656,945
Hook. See Coat hook. Garment hook.
Horse check, M. Geer..... 656,860
Horseshoe, nailless, J. V. Hughes..... 656,979
Hose coupling, A. M. Spickelmeier..... 657,037
Hot air furnace, G. Thomson..... 657,016
Hot air register, G. Auer..... 657,049

(Continued on page 158)