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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). Boston: Benjamin H. Sanborn & Company.

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. Revised and Enlarged.

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.

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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.]

Table listing inventions with patent numbers, including categories like Acid and making same, Adhesive product, Air compressor, Air or gas engine, Apparatus for removing material from below the surface, Automobiles, multiple motor system, Awning, Back pedaling brake, Badger, Bagg, Bag, Baling press, Baling press, J. Kerns, Band or cord tie, Basket, Batteries, charging stand and contact for storage, Battery box, Bed, Folding, B. Jefferson, Bell, alarm, E. A. Newhall, Bell, signal, C. J. E. Fleck, Belt and apron and carrying shaft for same, end-less feed, L. Holland-Letz, Belt, apparel, M. Schuber, Belt, apparel, A. W. Gardner, Belt or strap fastener, driving, F. E. Whitham, Bicycle attachment for leading bicycles, McDonald & Davis, Bicycle frame, F. A. Wilmot, Bicycle handle bar pillar, J. S. Dikeman, Bicycle, hood, G. C. Lauer, Billiard cue fastener, W. Hess, Bismuth from ores containing bismuth oxides, etc., extracting, J. Ranald, Blackboards, etc., composition of matter for, L. O'Brien, Blind fastener, S. A. Lewis, Boiler cleaner, F. A. Doughty, Book, account, J. H. Rand, Bottle fastener, elastic milk, J. B. Kimber, Bottle, non-refillable, A. Sommerfeld, Bottle stopper, N. G. Baldwin, Bottle stopper, C. Marchand, Bottle stopper, mucilage, C. W. Blagg, Bottles, flasks, etc., manufacturing, C. Boucher, Aine, Box, See Hat box, Miter box, Paper box, Brake, See Back pedaling brake, Elevator regulating brake, Ratch brake, Vehicle brake, Branding composition, H. Gibson (reissue), Brazing lamp, jeweler's, H. L. McCormack, Brick kiln, J. M. Gunkle, Brick machine, re-press, C. Chambers, Jr., Brick machine, re-press, Chambers & King, Brick machine, re-press, H. K. King, Brick press, Simpson & Redfield, Bridge iron, machine for bending, J. Buckley, Broom, H. W. Hodze, Broom, street, J. Wolf, Bucket or pail closure, D. E. & P. B. M. Trainer, Bucket, scoop, G. C. Lauer, Buckle, combination pulley and sash, J. Brower, Building, C. F. W. Doehring, Bulkhead doors, apparatus for operating, W. B. Cowles, Bunk, barrel, H. Strothenke, Burner, See Cactus burner, Butt, etc., machine for printing, A. C. Dodge, Butter molding and cutting apparatus, L. L. Mivelaz, Cabinet, kitchen, Steinicke & Bauer, Cable banger, C. E. Beard, Cactus burner, J. V. Snowden, Caisson, W. H. McFadden, Camera, photographic, C. A. Wiley, Can, See Sheet metal can, Cane mill, O. B. Silman, Capo task, M. Fletcher, Capstan, F. S. Mantion, Car coupling, W. E. Alexander, Car coupling, C. Bickmeier, Car coupling, J. Kelson, Car coupling, T. Kleimeier, Car coupling, automatic, Munroe, Car door, J. Van Slyke, Car door fastener, Smith & Delano, Car, freight, W. A. Caswell, Carbon brush, W. A. Markey, Card case, H. Bick, Carding engine under section, F. White, Carpet stretcher, E. W. Doolittle, Case, See Card case, Caster support, G. D. Clark, Casting apparatus, metal, W. J. Patterson, Casting metal, W. J. Patterson, Centrifugal machine, L. J. Taylor, Chain, H. J. Straker, Chair, See Combination chair, Window chair, Chimney raising device, W. M. Hoerle, Churn, Kister & Wood, Clear rolling board, S. A. Shelly, Circuit breaker, E. Thomson, Clamp, See Pipe clamp, Rail clamp, Cleaner, See Boiler cleaner, Flue cleaner, Clevis, W. P. Hendon, Clothes drier, S. V. Douglas, Clothes pin, C. M. Bowman, Clothes pin, J. F. Matthews, Clutch, friction, E. Noble, Coal and ores, apparatus for treating, J. W. Kenevel, Coat hook, locking, J. C. Backus, Cock, J. Morrison, Combination chair, M. Bellisle, Converter, cable, Cruickshank & Luther, Conveyor, endless, Acklin & Paterson, Corn shield, M. Straussberg, Corset, apparel, A. H. Wade, Corset cover, H. G. Steely, Cotton press, E. R. Face, 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, Crank pins and eccentrics, quartering and turning machine for, L. H. Moran, Cross tie and rail fastening, metallic, A. E. Allen, Crusher, See End crusher, Cue tip, T. Reminger, Cultivator, L. C. Young, Current generator, alternating, C. S. Bradley, Curtain fixture, H. M. Stevenson, Curtain pole attachment, E. Platte, Custom filing and shaping device, F. L. Myers, Cuspider, R. Carson, Cycle saddle, J. Nord, Damper regulator and ventilator, combined, F. L. Kink, Dental impression cup, H. D. Osgood, Detector bar, E. H. Higgin, Disinfectant, Mortimer & Williams, Display receptacle, H. T. Loomis, Ditching and grading machine, automobile, M. G. Bunnell, Door, J. M. Leaver, Door equalizer, W. T. Tobey, Door shutting device, hydraulic, M. Paldansy, Draft regulator, W. B. Fowler, Drawers, apparel, J. R. White, Drier, See Clothes drier, Driving apparatus, W. J. Le Barron, Dye and making same, blue anthraquin, R. E. Schmidt, Dye and making same, blue anthraquin, Schmidt & Tust, Dye and making same, blue chrysoazin, K. E. Schmidt, Dye and making same, blue chrysoazin, Schmidt & Tust, Dye and making same, blue tetrazol, Bammann & Davidis, Dye and making same, orange, F. Scholl, Dye and making same, violet cotton, R. Demuth, Dye and making same, yellow, F. Scholl, Dye and making same, yellow, azo, F. Scholl, Dye, blue, E. B. Bammann et al., Dye, brown, Herzberg & Hansmann, Dye, reddish-brown, Herzberg & Hansmann, Dyestuff and making same, azo, J. Bammann et al., Electric furnace, W. Borchers, Electric motor, E. J. Henry, Electric motor suspension, G. Gibbs, Electric switch, R. H. Wappler, Electric switch, fluid operated, C. A. Eck, Electrical distribution system, A. D. Lunt, Electrical distribution system, E. Thomson, Electrical apparatus, treating porous material used for, W. A. Markey, Electrical translating devices, means for controlling energy delivered to, H. W. Leonard, Electrolysis apparatus, P. Schoop, Elevator regulating brake, automatic, H. Graves, Elevator safety device, T. Schindler, Embroidering machine attachment, J. Grubman, End gate, M. Warner, End gate fastener, H. Keller, Engine, See Air or gas engine, Locomotive engine, Rotary engine, Engine starting mechanism, explosive, C. H. Blomstrom, Engraving machine, C. Chevalier, Envelop, B. A. Brown, Envelop, H. Trenchard, Jr., Equalizer, three-horse, J. F. Steward, Exhaust bed, Maranvil & Warden, Extractor, See Fence post extractor, Eyebars, making forked, W. S. Bidle, Eyeglasses, L. F. Airt, Eyeglasses, J. J. Clairmont, Fan motor, H. Sommerfeld, Fare register, W. L. Brownell, Feed roll, F. Good, Feed water heater, J. Mertes, Feeding live stock, manger for, I. Morris, Fence post extractor, F. Morgenthaler, Firearm, W. V. Bleha, Firearm rear sight, E. B. Tolman, Fire escape, J. F. Scott, Fire extinguisher, A. C. Badger, Fire extinguishing apparatus, dry pipe, J. H. Derby, Flue cleaner, steam jet, H. I. Coggeshall, Folding machine packing device, H. K. King, Furnace, See Blast furnace, Furnace, Electric furnace, Hot air furnace, Gage, See Raker gage, Work gage, Game, M. Bray, Game or puzzle, T. R. Geisel, Garment hook, L. V. Stiekney, Gas generating device, acetylene, S. Joseph, Gas generator, acetylene, E. S. Titus, Gas, making acetylene, E. S. Titus, Gases, igniting body for automatic ignition of combustible, L. Pierson, Gate, See End gate, Safety gate, Gates at predetermined intervals, appliance for automatically actuating farm, W. G. Cockerill, Gear mechanism, C. H. Blomstrom, Gear mechanism, reversing, C. H. Blomstrom, Generator, See Current generator, Grading device, automatic, G. W. Davault, Grease spot remover, J. M. Levy, Grinding machine, E. B. Roth, Grinding mill, T. Cascaden, Jr., Gun, magazine, B. Burton, Gun sight, E. B. Tolman, Guns, single trigger mechanism for breakdown, W. M. Levy, Hammock, H. Gundlach, Hanger, See Cable hanger, Harrow and cultivator, combined, J. D. Magee, Harrow seat attachment, O. W. Skorkowsky, Harrow tooth, J. Kraus, Harvest carrier, Farmer & Maul, Harvester, corn, E. S. Bowker, Harvester for peas, beans, etc., Whitney & Glenn, Harvesting machine, H. Brackebush, Harvesting machine, corn, A. Steiner, Haul, W. K. Hilton, Hat box, J. J. Cannan, Hat shaping machine, C. W. Young, Hat tip, L. Weisenburger, Hay and stock rack, combined, J. H. King, Hay derrick, folding, D. H. Clark, Heading machine, C. W. Durchschlag, Heater, See Feed water heater, Steam heater, Water heater, Hobby horse and invalid's chair, combined, A. J. Branham, Hoisting device, J. Laursen, Hook, See Coathook, Garmenthook, Horse check, M. Geier, Horseshoe, nailless, J. V. Hughes, Hose coupling, A. M. Spickelmeier, Hot air furnace, G. Thomson, Hot air register, G. Auer

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