

NEW BOOKS, ETC.

ANATOMIE DU GASTER DE LA MYRMICA RUBRA. Par Charles Janet. Paris: Georges Carré et C. Naud, Editeurs. 1902. Pp. 68.

MANUAL FOR RESIDENT ENGINEERS. Containing General Information on Construction. By F. A. Molitor and E. J. Beard. New York: John Wiley & Sons. London: Chapman & Hall, Ltd. 1903. 16mo. Pp. iv, 118. Price \$1.

During the construction of the Choctaw, Oklahoma & Gulf Railroad Company's line across the State of Arkansas in 1899, the first fifty pages of this book were written by the authors and published in blue-print form as instructions to resident engineers for the purpose of obtaining uniformity of method in work and results. After the road was extended, so that personal supervision was rendered difficult and slow, the authors revised the body of the book and also the standard specifications, which, together with the tables of level cuttings, were added to the original instructions and published in book form for the railroad company's use. As no pocket-book or manual bearing upon the particular field covered by the original instructions has heretofore been published, the work should do at least something toward simplifying and standardizing the work of the resident engineers in general.

IRRIGATION INSTITUTIONS. By Elwood Mead, C.E., M.S. New York: The Macmillan Company. London: Macmillan & Co. 1903. 12mo. Pp. xi, 392. Price \$1.25.

Mr. Mead assures us that this work is based on twenty years' experience in the development of irrigated agriculture in the arid West. In the work that lies before us these years of experience have been concentrated into some fourteen chapters, dealing with the subject both from the agricultural and technical side, as well as from the legal side. The changes wrought by irrigation in the last half century have been such that a good book on the subject should be welcomed.

AMERICAN ELECTRIC AND AUTOMOBILE PATENTS MONTHLY. Compiled by James T. Allen, Examiner United States Patent Office, Washington, D. C.; American Patents Publishing Company. Price \$5 per annum.

Mr. Allen has undertaken the task of preparing a compilation of the patents included in over four hundred subdivisions of the Patent Office classes. The publication contains digested patents covering the subjects of acoustics, electro-chemistry, electric lighting, electric railways, electric signaling, electric steering, electric conductors, therapeutic electricity, electrical motive power, special applications of electricity, telegraph, and telephone improvements, motor vehicles and attachments, and air and gas engines. Mr. Allen has published the drawings and the claims of each patent. Not the least valuable feature of his work is an index giving the number, name, and date of references cited in examination of applications. That a publication of such character should be of value to patent lawyers goes without saying.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending April 14, 1903,

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

Table listing inventions with names and dates. Includes items like 'Acid, apparatus for the manufacture of sulfuric, O. H. Eitel', 'Air brake, C. W. Valentine', 'Air brake hose coupling and valve mechanism, G. B. Dinkins', etc.

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Table listing various mechanical parts and tools with prices. Includes items like 'Bottle opener, I. E. Newell', 'Bottle stopper head, L. Strebel', 'Bottles, jars, etc., device for stoppering', 'H. L. Strandh', 'Box stuff sawing and assorting machine', 'G. A. Smith', 'Bracket or the like, E. P. Davis', 'Brake operating mechanism, automatic, M. A. Born', 'Brake shoe, W. E. Garton', 'Brake shoe, D. Rawstron', 'Brick handling and drying system, F. W. Dennis', 'Brick machine mold, H. J. Flood', 'Brick machine, E. C. Bishop', 'Bridle, J. E. Noble', 'Bromin extracting, A. W. Smith', 'Brushes, device for securing bristles in, P. Mobius', 'Building block grapple, H. B. Stephens', 'Button hook, J. L. Sommer', 'Cables or the like, grip for, O. M. Sackett', 'Cake turner and culinary article, G. S. Ressler', 'Calculating machine, N. Goldfarb', 'Calendar, perpetual, W. M. Finch', 'Calking seams of vessels, apparatus for, C. G. Hightower', 'Camera, M. Schell', 'Camera, photographic, F. A. Brownell', 'Can, G. R. Turner', 'Can forming machine, Good & Schladt', 'Can opener, F. Puffer', 'Can opener, L. T. Weiss', 'Can testing apparatus, J. G. & M. O. Rehffuss', 'Can top and bottom conveying apparatus, J. G. Rohfus', 'Cant hook, D. H. Langan', 'Canvas stretcher, W. J. Dorgan', 'Car bolster, railway, J. A. Thorsell', 'Car brake, Powell & Schneider', 'Car brake ratchet handle, P. C. Baggerman', 'Car, center dumping, R. H. Hornbrook', 'Car construction, H. C. Buhoup', 'Car coupling, C. E. Lucas', 'Car coupling, Schroeder & Lindholm', 'Car door, freight, D. E. McLaughlin', 'Car, electric, G. C. Hawkins', 'Car fender, J. H. Hullings', 'Car, freight, H. A. Turner', 'Car rocker side bearing, railway, A. O. Buckius, Jr.', 'Car rocker side bearing, railway, W. H. Miner', 'Car rocker side bearing, railway, F. B. Townsend', 'Car sash and panel cleaner and polisher, D. McCaffery', 'Carbonating apparatus, Adriance & Callison', 'Carburetor, J. Ruthven', 'Cardboard scoring machine, M. D. Knowlton', 'Carpet renovator, J. S. Thurman', 'Cartridge case, A. Barrallon', 'Case. See Display case.', 'Caster, A. B. Diss', 'Caster, E. B. Dorsey', 'Caster, ball, R. M. Gray', 'Caster, ball, P. Magoun', 'Caster, ball, C. Thomson', 'Cement or concrete structures with hollow walls, flues, etc., device for building, W. H. Cadwell', 'Cement, strengthened cast, J. Daim', 'Cementing substances, W. M. Kimberlin', 'Centrifugal machine, Hall & Ramsay', 'Centrifugal machine, F. Hampl', 'Chair, J. A. Whitcomb', 'Channels, apparatus for forming navigable, L. W. Bates', 'Channels, forming navigable, L. W. Bates', 'Cheese cutter, C. G. Winn', 'Chocolate blocks or tablets, machine for molding, P. R. Franke', 'Chuck, P. F. Krug', 'Chuck, drill, J. J. McDonough', 'Churn motor, R. B. Thompson', 'Churn power, F. S. Sims', 'Cigar lighter, J. J. Fleming', 'Cigarette paper with tips, means for providing, M. Nast', 'Circuit closing device, H. P. Ball', 'Cloth cutting machine, C. A. Amelang', 'Clothes hook, J. M. Merrill', 'Clothes line, pinless, W. A. Jennings', 'Clutch, pneumatic, C. R. Goodspeed', 'Coat and hat rack, R. E. Hart', 'Coat hanger, H. C. Hinchhoff', 'Coating apparatus, electrolytic, H. W. Botz', 'Coffee pot, C. H. Atkins', 'Coke oven doors, means for removing, E. A. Moore', 'Coking oven, R. S. Moss', 'Collar blanks, etc., machine for folding, G. J. Dormandy', 'Compass attachment, J. L. Bliss', 'Concrete conduits, form or center for molding the inserts of, W. F. Learned', 'Condenser system, W. C. Brown', 'Conveyor, bucket, A. L. LeGrand', 'Copper from carbonate and oxides, extracting, H. R. Ellis', 'Corset clasp, S. Kennedy', 'Crane, A. L. & O. Anderson', 'Crank disks or gears against end movement, means for securing, J. Thomson', 'Crumbler, stuffer, Bastian & Sussman', 'Crotch, G. C. Calentine', 'Cultivator, M. G. Graham', 'Cultivator, J. B. Bartholemew', 'Cultivator, J. Schalk', 'Cultivator shovel, A. L. Johnson', 'Cultivator wheel, E. S. Slough', 'Current apparatus, alternating, Kelly & Chesney', 'Current motor, alternating, A. W. Schramm', 'Current motor system, alternating, S. Krohn', 'Current motors, device for varying the number of poles in alternate, Dahlander & Lindstrom', 'Currycomb, J. H. A. Willie', 'Curtain stretcher, M. M. Hadden', 'Cut out, automatic, I. Kitsee', 'Cutter. See Cheese cutter.', 'Dehorning knife, J. D. De Colle', 'Dental chair, I. N. Brigham', 'Dental plate, S. G. Supplee', 'Deodorizing or disinfecting apparatus, M. Jacobs', 'Dental, E. C. Carter', 'Dipping machine, W. S. Foster', 'Display case, C. E. Latschaw', 'Display stand, H. I. & M. A. Lurye', 'Distribution system, A. D. Lunt', 'Door track and hanger, sliding, T. C. Prouty', 'Door track, rolling, T. C. Prouty', 'Doorway, A. F. Gerald', 'Draw bar rigging, E. W. Fox', 'Dredger, canal, E. Chmoutte', 'Drilling machine, A. W. Wigglesworth', 'Dry closet, S. Davis', 'Dynamo brush holder, E. Gaud', 'Egg beater, C. A. Taplin', 'Electric motors, device for maintaining constant speed in, J. G. Roberts', 'Electric switch, T. Cope', 'Electric time switch, E. Hemphill', 'Elevator, J. G. Scott', 'Elevator gate step latch, E. Pecher', 'Elevator gate operating mechanism, J. E. W. Fogal', 'Elevator safety device, E. H. Price', 'Engine driving gear, C. Phillips', 'Engine electric igniter, explosive, G. A. Goodson', 'Engine ignition chamber, gas, A. A. Low', 'Engine muffler, R. P. Thompson', 'Engine piston, H. M. Quick', 'Engine speed regulator, all, W. A. Whiting', 'Envelope and writing sheet, A. H. Lewis, et al.', 'Envelope machine, F. B. Powers', 'Explosive engine, oscillating piston, J. A. Jenney', 'Eyeglass spring and guard lock, H. S. Peters', 'Fabrics, border for the edges of, G. W. Murray', 'Fan, C. W. Lund

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