

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

LIGHTNING-ARRESTER.—F. K. SINGER, Wheeling, W. Va. The device comprises both a fuse and a spark gap, both of which are supported from a base. The fuse is arranged within a vertical tube of fiber through which the fuse passes near the upper end and is connected with a choke coil, the latter in turn having connection with a cross bar provided with a depending champing wing which coacts with a line carbon, said carbon and a ground carbon being separated by a disk of mica to produce the spark gap.

Of Interest to Farmers.

POST-HOLE DIGGER.—C. W. VAN DE WALKER and R. T. JENNEY, Two Rivers, Wis. This improvement refers to tree-planters and post-hole diggers. These devices usually comprise a vertical handle provided with a scoop or cutter at its lower extremity, which is adapted to be forced into the ground and enables the dirt to be removed. The object is to provide a construction for the cutter and means for operating the same with a view to increasing the efficiency of the device in raising the earth from the hole.

Of General Interest.

MEMORANDUM-BOOK.—J. J. HOEY, New York, N. Y. It is expected that the invention will be most useful for keeping small memoranda which would be of temporary character and which would be torn from the book in a short time. Where an ordinary note-book would be used for making entries of this kind, these entries would be scratched off from time to time, and considerable time would be consumed in looking through the pages to find a particular memorandum. The special purpose is to facilitate the finding of memoranda which are still useful and preserved in the book.

OIL-PRESS.—J. C. RICHARDSON, Altonpark, Tenn. This invention relates to continuously-acting presses of the type employing an endless chain of press-boxes and a similar chain of boxes and followers being arranged on suitably-supported driving rollers or drums. The object is to provide a press of this general character involving novel and simplified construction adapted for effecting new and improved compressing action over all similar continuously-acting endless-chain presses.

CAT-GUARD.—F. H. PALMER, New York, N. Y. In this patent the object of the invention is the provision of a new and improved cat-guard more especially designed for use on the top of fences, railings, and like structures for preventing cats and other animals from using or crossing the structure.

FURNITURE-DISPLAY RACK.—C. McCLOSKEY and J. McLAUGHLIN, Sedalia, Mo. The rack comprises vertical standards spaced apart and having horizontal feet for supporting them. Bars connect their upper ends and are spaced apart and adapted for vertical adjustment on the standards, and brackets having horizontal and vertical members. The former are provided with hooks to engage the top bar, the horizontal members projecting laterally from the top bar to adapt them to support articles of furniture, the vertical members bearing against the lower cross-bar of the frame. The brackets may be placed at different distances from each other, or the ends of the frame.

CONVEYING DEVICE.—I. E. BENDICKSON, Cambridge, Wis. While capable of general use the device is especially adapted for application to a trolley system for cleaning out stables and for similar purposes. Principal objects are to provide a construction of frame for supporting a carrier mounted in such a manner as to be easily dumped and formed in such a way as to readily discharge all material therefrom when moved to dumping position. Means provide for controlling the dumping of the carrier and for keeping the frame on the trolley-track.

Heating and Lighting.

GRATE.—O. E. HALDERMAN, Marion, Ind. Mr. Halderman's invention relates to grates, and has for its principal objects the provision of a strong and durable device, which may be efficiently operated. The spaces between the successive bars are entirely unobstructed and the supporting shaft and arms are so located as not to be subjected to extreme heat, therefore rendering the structure more durable.

Household Utilities.

MEAT-ROASTER.—D. G. WALKER, Lindsay, Neb. In this patent the invention has reference to culinary vessels; and its object is the provision of a new and improved meat-roaster arranged to insure automatic and proper basting of the meat without loss of the meat-juices and the basting fluid used.

SAD-IRON.—F. W. KELLERMAN, Weymouth, Mass. This inventor employs an iron having a body within which is supported a movable horizontal partition dividing the interior of the body into an upper and forward chamber and a lower combustion-chamber, in which latter is mounted a vapor-burner. Supported in the upper chamber is a vapor-generator in communication with which is a conductor for the vaporizable fluid leading from the supply-tank or such fluid, suitable valves being employed to regulate the passing of the fluid to the

conductor, as well as the passing of the generated vapor to the burner.

Machines and Mechanical Devices.

COMBINED DRILLING AND BOLT-CUTTING MACHINE.—K. C. DAVIS, Ely, Nev. The machine is intended for general jobbing work in drilling or screw-cutting on bolts, rods, or the like, a prominent feature residing in a novel tool carrier of tubular form and having elongated exterior grooves or teeth. The upper end of the tool holder is vertically movable in sleeves supported from the spindle of a drilling machine, and the elongated teeth are continually in mesh with a driving pinion on the spindle; the arrangement being such that the tooth holder can be adjusted readily according to the size and character of blank being operated upon.

Railways and Their Accessories.

AIR-BRAKE APPLIANCE.—H. C. LUCK, Telluride, Col. In this patent the invention has reference to fluid-pressure brakes for railroad trains; and its object is the provision of a new and improved air-brake appliance arranged to automatically set the brakes in the train in case any one of the cars in the train becomes derailed.

CAR-COUPLING.—C. McCARTER, Indianapolis, Ind. The device is of the Janney type and its features adapt the coupling for a reliable automatic coupled engagement with a similar coupling, enable the quick and safe detachment of two of the couplings and provide means for an automatic release of two couplings on adjacent cars in a moving train if the fastenings of either of the coupled car-couplings become loosened and liable to detachment, thus severing the train and avoiding accidental derailment of a portion that might result if the loose coupling fell upon the track.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry.

MUNN & CO.

Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 7976.—Wanted, address of the manufacturer of Brooklyn Vapor Bath.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 7977.—Wanted, address of party making the Hat-Justman or the Just-Hatman milk evaporating system.

For bridge erecting engines. J. S. Mundy, Newark, N. J.

Inquiry No. 7978.—Wanted, the addresses of manufacturers or jobbers of bentwood, who can furnish ash, hickory or oak bows 20½ inches long by 1½ inches high, inside measurement, and ½ inch thick by ¾ inch wide also bows 15½ inches long by 13 inches high and 1¼ wide by ¾ inch thick.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chazrin Falls, O.

Inquiry No. 7979.—Wanted, the address of manufacturers or jobbers of a thoroughly waterproof, durable and flexible canvas 30 inches wide.

I sell patents. To buy, or having one to sell, write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y.

Inquiry No. 7980.—For manufacturers of boilers of 25 h. p., horizontal, to supply steam for jacket kettles and for power to run different machinery in the plant; something which is a quick steamer with low fuel consumption.

I have for sale the U. S. and all foreign rights of new patent improvements in Water Tube Types of Boilers. Great economizer. J. M. Colman, Everett, Wash.

Inquiry No. 7981.—Wanted, address of firm who will install an aerial cable conveyor road for lumber from a mill about one mile to railway switch or siding.

Well gotten up typewritten letters will increase your business. \$2 per 1000.

Typewritten Letter Co., St. Louis.

Inquiry No. 7982.—For manufacturers of engine for self-threading or automatic needles both for hand and machine sewing.

The celebrated "Hornsbly-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company, Foot of East 138th Street, New York.

Inquiry No. 7983.—Wanted, addresses of American poultry exporters.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery tools, and wood fiber products. Quadriga Manufacturing Company, 18 South Canal St., Chicago.

Inquiry No. 7984.—For manufacturers of metal tips for pen holders (that is, the part the pen goes in) also who make and sell celluloid of various colors, widths and lengths, ¼ to ½ of an inch thick.

Inquiry No. 7985.—For manufacturers of confetti machines for cutting paper.

Inquiry No. 7986.—For manufacturers of gazing globes for gardens. (It is a globe made of looking glass.)

Inquiry No. 7987.—For manufacturers of X-ray outfit for examining the insulation of electric cables.

Inquiry No. 7988.—For manufacturers of machinery for making fireworks.

Inquiry No. 7989.—For manufacturers of microphones (telephones) for submarine purposes, such as in use on the steamers on Hamburg-American Line to detect approaching steamers when night or in foggy weather.

Inquiry No. 7990.—For manufacturers of apparatus for extracting sap (juice) of the rubber tree, not for preparing the rubber, but for tapping the juice from the trees.

Inquiry No. 7991.—For manufacturers of small chain, steel, aluminum or other sort.

Inquiry No. 7992.—For manufacturer of machine of the type of a general joiner to make tenon and cut mortise, and with a hand saw combined; a general purpose machine for hand power.

Inquiry No. 7993.—For manufacturers of lightest, strongest material for airship cages carrying motor and load.

NEW BOOKS, ETC.

PERPETUAL ECCLESIASTICAL CALENDAR. Showing the Dates of the Principal Feasts of the Church's Year. By Clarence E. Woodman, Ph.D., Knight of the Royal Order of Isabella the Catholic. New York: The Columbus Press, 1905. Price, 25 cents.

This pamphlet shows by simple inspection of tables the dates of the principal feasts of the Church's year from the beginning of the Christian era to the year 4499, with rules for unlimited extensions. It is an excellent example of the practical use of mathematics.

ART OF TYPEWRITING. Being Practical Instruction with Graduated Exercises and Model Examples Suited to Any Machine and Including a Method of "Touch" Writing. By George Carl Mares. London: Guilbert Pitman, 1905. 18mo.; pp. 182. Price, \$1.

The typewriter stands pre-eminent among the devices evolved for relieving the strain upon the time and labor of those engaged in the world's commerce. The typewriter, being as it were an antidote to the feverishness of life, and serving as a tonic to the busy man, may be aptly regarded as a restorative. To get the best results from any medical preparation it is desirable that its constituent parts should be known, that the manner of taking it, and how best to nourish its action, should be studied. Treating business life as an ailment, and the typewriter as a specific, the author brings forward this extremely useful book.

INDEX OF INVENTIONS

For which Letters Patent of the

United States were Issued

for the Week Ending

March 20, 1906.

AND EACH BEARING THAT DATE

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

Accounting appliance, credit, J. J. Bennett 815,785
Acetylene-generator, J. W. Vaughn 815,390
Adding device, mechanical, C. R. Martineau 815,725
Addressing machine, A. B. Hunkins 815,832
Advertising device, H. B. Seaman 815,867
Agricultural implement, V. H. Rice 815,741
Air-brake coupling, automatic, V. Simecek 815,874
Air feeding device, W. Sasse 815,473
Alarm, H. Irwin 815,709
Alcohol from liquor casks and barrels, apparatus for recovering waste, T. H. Naughton 815,463
Alcohol from liquor casks and barrels, recovering waste, T. H. Naughton 815,464
Alcohols and their derivatives, producing aromatic, C. Mettler 815,548
Alkylaminoacetylpyrocatechol and making same, F. Stolz 815,653
Alloy of iron and hydogen agglomerated in strong coherent bodies, production of articles of, G. W. Gesner 815,419
Anchor, Hile & Becke 815,588
Animal trap, Walker & Frederick 815,663
Annealing apparatus, J. J. Ryan 815,569
Apparel, wearing, H. E. Brown 815,329
Arch prop, J. W. Arrowsmith 815,897
Article holding means, D. King 815,353
Assembler slide brake, L. F. Smyth 815,651
Atomizer or nebulizer, F. G. Dornier 815,411
Automatic switch, C. F. Adams 815,397
Automobile, F. Philan 815,735
Automatic sleighing attachment, C. C. Delan 815,910
Automobiles, device for recharging the storage batteries of, L. Lynden 815,360
Axle, E. Einfelet 815,582
Axle lubricator, E. Le Fever 815,842
Axle, metallic, H. M. Butler 815,678
Bag. See Water bag.
Bag fastener, E. E. Witte 815,668
Bag stringing machine, Lowe & Hubbard 815,696
Balling machine, A. E. Rhoades 815,378
Bandage, V. E. Hardee 815,426
Banners and the like, holder for, L. G. Johnson 815,838
Barge, J. M. Pearson 815,631
Barge and other like vessel, J. M. Pearson 815,551
Beam-tension regulator, electromagnetic, D. Bacon 815,326
Bed and cabinet, combined folding, W. H. Blase 815,400
Bed attachment, N. E. Smith 815,481
Bed, cot, and table, invalid, A. Kruger 815,715
Belt tightener and fastener, combined, A. Fleeger 815,341
Bench, L. L. Poplin 815,556
Blank, G. W. Heene 815,349
Blanks with beveled edges, machine for cutting, A. M. Stickney 815,564
Boat, submarine, J. P. Holland 815,350
Bobbin, C. C. Cost 815,663
Boiler and furnace, E. Peritt 815,636
Boot and shoe filler, A. Lewis 815,599
Boot and shoe shank piece, W. H. Baynard 815,327
Boring bars, tool carrier for, C. F. Owen 815,636
Bottle attachment, W. A. Davis 815,688
Bottle cap, C. H. Johnson 815,837
Bottle filling apparatus, C. F. Reinhardt 815,741
Bottle holder, nursing, M. E. Gregory 815,815
Bottle locking device, E. F. Strobel 815,664
Bottle, non-refillable, L. Pridaux 815,376
Bottle, non-refillable, A. Schenck 815,639
Bracelet, A. H. Bliss 815,899
Bracket hook, E. A. Graham 815,813
Brake, A. L. Craver 815,514
Brake shoe, W. G. Menzel 815,612
Braking mechanism for electric motors, W. H. Scott 815,750
Bride, M. J. Halliburton 815,424
Bride bit, C. Hay-Hay 815,703
Bride bit, H. A. Slevert 815,385
Briquetting machine, R. C. Hills 815,532
Briquetting machine, W. Simpkin 815,647
Brush, dusting, G. Koch 815,593
Buckle, E. J. Kracter 815,538
Building block, C. Lugabill 815,607
Building block, D. A. Schoeneman 815,641
Building material, Depew & McCoy 815,801
Butter pat printing machine, H. G. Abreweller 815,896
Buttonhole machine, cord stitch, A. Traver 815,739
Cabinet, C. A. Karlson 815,592
Cake turner, C. Banks 815,781
Calculating machine, J. L. Levin 815,542
Camera, H. A. Farrand 815,584
Can. See Flour can.
Can body making machine, J. Brenzinger 815,791
Can lining machine, C. S. Bucklin 815,402
Can opener, L. C. Sharp 815,477
Candy spinner, W. H. Goodman 815,458
Cane and whip, combined, J. R. Morris 815,768
Car brake, Washburn & Niles 815,880
Car brake, E. G. Tillman 815,890
Car coupling, W. W. Gordon 815,525

Car door hanger, F. B. McElvain 815,461
Car fender, automatic, B. Lev 815,926
Car fender chain bracket, B. Lev 815,922
Car fender, detachable, B. Lev 815,923
Car fender, motor, B. Lev 815,919
Car fender spring, B. Lev 815,924
Car fender spring, buffer, B. Lev 815,921
Car fender, tubular, B. Lev 815,927
Car fenders, cushioning roller for, B. Lev 815,928
Car lift, individual, C. G. Hutchinson 815,834
Car motor, adjustable seat for electric, E. Mefferd 815,546
Car rack, H. E. Keeler 815,352
Car separable fender, motor, B. Lev 815,920
Car switching mechanism, H. E. Sharp 815,560
Cars, device for transporting passengers from, F. S. See 815,868
Carburetor, explosive engine, J. H. Johnston 815,712
Carpet cutting machine, W. H. Eschantz 815,491
Carpet holder, stair, H. Weinstock 815,391
Cattle guard, F. O. & G. A. Richter 815,379
Ceiling plate, E. A. & A. B. Munro 815,369
Cement kiln, rotary, H. Hitzel 815,705
Cement making apparatus, R. C. Carpenter 815,680
Centrifugal machine, G. ter Meer 815,363
Chain line, wire, C. M. Martin 815,849
Chandelier attachment, electric, J. C. Schaefer 815,474
Chart, dress, H. N. Plant 815,467
Cheese paraffining machine, rotary, O. O. Andersen 815,575
Chocolate tablets or similar articles, machine for wrapping, A. Blanc 815,675
Chuck, lathe, G. B. Taylor 815,877
Churn, C. W. Lowrey 815,358
Churn, W. F. Talbert 815,658
Churning attachment, I. M. Rosenthal 815,864
Cigar bunch handling machine, W. S. Luckett 815,359
Cigar clipper and match safe, combined, R. O. Hammond 815,700
Cistern mold, W. H. Lucas 815,447
Clamping band, L. A. Resler 815,558
Clay working machine, Alsop 815,398
Closet tank, W. C. A. Vissing, Jr. 815,661
Clothes hanger, Farish & McClure 815,338
Clothes line support, J. H. Hartley 815,529
Clutch, friction, T. C. Dexter 815,909
Coat hanger, J. M. Stein 815,759
Coin holding card, J. C. Anderson 815,502
Coking process, G. S. Merrill 815,453
Colors for printing on fabrics, producing metallic or lustrous, L. Lillienfeld 815,600
Comb case and cleaner, combined, A. O. Craven 815,798
Concentrator, H. Bent 815,673
Concentrator, H. H. Campbell 815,679
Concrete and metal structure, R. A. Cummings 815,409
Concrete foundation for scales, G. H. Birchard 815,576
Concrete steel construction, W. Muesner 815,619
Condenser and feed water heater, J. Jeklin 815,431
Conduit holder, S. M. Van Blarcom 815,883
Construction material, W. Muesner 815,617
Construction materials, W. Muesner 815,618
Controller operating means, A. J. Brown 815,578
Conveyer, Miller & Dickinson 815,852
Cooling apparatus, M. L. Wolfe 815,773
Cop-waste, etc., worker-cylinder for machines for pulling, tearing, etc., H. A. Williams 815,395
Corn picker and husker, C. E. Hancock 815,817
Corrugating machine, G. B. Johnson 815,710
Corset and abdominal supporter, F. Schmitt 815,747
Cot, traveler's grip, E. C. Harlee 815,819
Cotton picker, L. Blount 815,676
Counterbalance device, W. J. Hagman 815,696
Cream-separator bowl, centrifugal, W. C. Hartmann 815,347
Crushing rolls, A. C. Calkins 815,332
Crutch, A. C. Morse 815,368
Cultivator, F. L. Anderson 815,323
Cultivator, beet, O. Sorenson 815,652
Cup. See Grease-cup.
Current machinery, alternating, A. S. McAllister 815,459
Curtain stretcher and clothes drier, combined, W. M. Rush 815,382
Cut out, thermal, C. E. Eveleth 815,804
Cutlery, manufacturing, E. Hammesfahr 815,699
Cutter head, A. W. Nelson 815,549
Damper operating motor, O. Staugstad 815,559
Decorating Manila fiber and like substances, machine for, C. E. Dailey 815,799
Dental expander or dilator, C. G. Davis 815,907
Dental plate swage, G. E. Freeborn 815,507
Desk and easel, adjustable artist's, J. & E. M. Goldsworthy 815,810
Dish drainer, W. A. McAdams 815,855
Dispensing apparatus, coin controlled, F. T. Percy 815,860
Display form, W. S. Stillman 815,566
Display rack, C. D. Sliven 815,480
Display stand, hat, H. J. Montgomery 815,456
Distilling apparatus, G. F. Wentz 815,392
Door check, N. W. Crandall 815,579
Door fastener, J. L. Phillips 815,466
Door fastening, screen, A. Sandberg 815,638
Door, fire exit, D. Carroll 815,334
Door banger, P. A. Myers 815,371
Door retainer and the like, temporary, G. D. Johnson 815,432
Draft mixer and kneader, D. Woodruff 815,775
Draft equalizer, Marshall & Cox 815,361
Drilling, boring, milling, etc., machine for, W. J. Hagman 815,697
Drinking fountain, fowl, J. H. Whaler 815,885
Driving mechanism, reversible, M. C. Johnson 15,433
Drum, hot air, W. A. Norton 815,624
Dumping structures, latch device for, C. F. Shelby 815,645
Duplicating apparatus, A. B. Dick 815,689
Duplicating apparatus, E. A. Cox 815,905
Dye effects in woolen fabric, etc., producing multi-colored, M. Becke 815,671
Electric apparatus, vapor, A. M. Jackson 815,836
Electric conductor, W. D. Weir 815,498
Electric machine, dynamo, J. P. Mallett 815,847
Electric plug connection, J. C. Tournier 815,764
Electric switch, E. M. Hewlett 815,825
Electric time switch, M. T. Campbell 815,792
Electrical control system, F. J. Sprague 815,756
Electrical distribution systems, safety equipment for series, Murmann & Shreve 815,370
Electricity upon belt, means for preventing accumulation of static, C. M. Green 815,814
Electrolier, adjustable, A. Hopkins 815,830
Electromagnet, E. H. Miller 815,365
Electromagnetic device for distributing machines, O. G. C. Schmitt 815,748
Elevator coupling, G. B. Read 815,470
Elevator emergency brake, Otis & Sundah 815,629
Embossing and printing upon leather, silk, etc., machine for, G. Moore 815,931
End gate, F. M. Miller 815,454
Engine reversing mechanism, Parr & Lucke 815,732
Engraver's tool, T. Ackley 815,892
Etching on zinc by electrolysis, deep, O. C. & H. H. Strecker 815,875
Explosive compound, G. M. Hathaway 815,821
Eyeglass and spectacle mounting, combined, C. A. Hoffman 815,827
Eyeglass fitting, G. A. Stiles 815,487
Eyeglass lens, S. Slagle 815,648
Fabric, method and apparatus for coating bands of, F. C. Wickel 815,664
Farming implement, E. Haiman 815,698
Fastening device, W. P. Smithem 815,561
Feed and litter carrier, H. L. Ferris 815,521
Feed device, automatic, E. J. Ericksen 815,691
Feeding device, poultry, H. P. Nottage 815,625
Fence machine, wire, G. W. Schock 815,640
Fence post, J. A. Blake 815,788
Fender carrier, B. Lev 815,925
Fiber crating machine, A. M. Sheakley 815,478
Fibers, preparing, B. S. Summers 815,876
File for bills, receipts, and the like, bill, E. L. Henderson 815,427
Filing case, E. E. Illig 815,535
Filter, G. W. Gesner 815,417
Filtering material, Loffer & Weidale 815,846
Filtering streams and the like, means for, T. Lydon 815,722
Fine fuel furnace, F. N. Spear 815,562
Fire escape, J. A. Breckon 815,401
Fire pot and twyer iron, combined, C. O. Swenson 815,489
Fireproof window, automatic, E. T. Wilkinson 815,772