

ENGINEERING INVENTION.

A dumping car has been patented by Mr. Augustin C. M. Anguin, of Raincy, near Paris, France. Combined with a truck having transverse shaft with a worm, and the laterally movable body with a transverse rack on its under side engaging the worm, are hooks and gudgeons for limiting the outward movement and forming the axis on which the body turns in dumping, with other novel features, to enable the bodies of cars to be displaced in either direction laterally.

AGRICULTURAL INVENTIONS.

A check rowing attachment for corn planters has been patented by Mr. Orren A. Shotts, of Osceola, Iowa. It is an attachment capable of being elevated bodily from the ground and adjusted laterally and by rotation, the drop being automatically operated by the action of the check wheels, the invention covering various novel features of construction and combination of parts.

A plow has been patented by Mr. Edward B. James, of Thomasville, Ga. It may be arranged as a double plow, or two single plows adjusted to plow two furrows of different depths simultaneously, or it may be used as a cultivator, having two plow beams and adjustable fastening devices for connecting them, with pivoted standards supported by offset braces, the handles having an adjustable support for holding them at different heights.

MISCELLANEOUS INVENTIONS.

A device for lowering coffins has been patented by Mr. John T. Meredith, of Buchtel, Ohio. This invention provides a means whereby the coffin may be supported over the mouth of the grave, and lowered therein, the apparatus being strong, cheap, and durable.

A post hole digger has been patented by Mr. James H. Humphrey, of Platte City, Mo. The machine consists of a grip, lever, disk rod, and disk, and is especially designed to remove the earth quickly from the digger, and when digging to assist it in retaining very wet or dry earth.

A line protector for vehicles has been patented by Mr. Frank C. York, of Salina, Kansas. It is intended to prevent the lines of the harness in driving from being caught under the ends of the thills, the thill ferrules having loops in which straps are fastened by snap hooks and by buckles to the collar.

A scarf attachment has been patented by Mr. Louis Fischer, of New York City. It is a combined neckband keeper and catch made from a blank of sheet metal, having a tooth or catch pin formed integrally therewith and folded to form a tubular guide for the band, the device being adapted to be secured to the scarf, stiffening and making a fastening for it.

A ditching machine has been patented by Mr. Archibald Stewart, of Keota, Iowa. It has a hollow cone with spiral slots, along the edges of which knives are arranged, an elevating screw or auger within the cone raising the earth cut away by the knives, the drawing forward of the machine over the ground simultaneously forming the ditch by a continuous operation.

A saw buck has been patented by Mr. Charles B. Guy, of Postville, Iowa. In combination with the ordinary form of saw buck are pivoted levers with curved upper ends, whereby the wood billets may be clamped in the crotch of the buck by an easy and natural movement of the sawyer's foot, and may be quickly released to shift the wood along the buck.

A show case has been patented by Mr. James H. Flagg, of Brooklyn, N. Y. It has a series of lower compartments, and an upper chamber having an inclined bottom and a glass or transparent cover, with a removable drawer in the upper chamber having a series of compartments, so that samples will be in full view of the purchaser and the salesman, but need not be disturbed to deliver goods.

An end gate for wagons has been patented by Mr. Munn Davis, of Wahoo, Neb. This invention provides a device occupying but little space, to facilitate the dumping of wagons and carts, dump cars for coal or ore, steam shovels, excavators and dredgers, the device being adapted to dump the load by a single movement, and while the apparatus to which it may be attached is in any given position.

A spring clasp for gloves has been patented by Mr. Sigmund Bernhardt, of New York City. It has two side pieces, with several holes for securing them to the glove at the placket, between the lining and the outer part of the glove, the side pieces being hinged by a pin at the point of opening, and one of the side pieces having attached thereto a flat pointed steel spring to hold the clasp closed or open, as desired.

A drawer has been patented by Mr. Joseph H. Knaus, of Fayette, Mo. The invention covers a combination by which an endless strand, of cord, wire, or chain, passes around pulleys at the front and rear of the casing, at opposite sides of the drawer opening, whereby the binding of the drawer in moving it in and out of its casing will be prevented, and the friction obviated.

A combined screen and storm door has been patented by Messrs. Louis Guthrie and William G. Baumgardner, of Filer City, Mich. In a door having a screen-covered opening there is a rabbeted moulding around three edges of the opening, a panel sliding in the ways formed by the rabbets of the moulding, while a fourth piece of moulding is secured to the outer edge of the panel and completes the border.

A filter has been patented by Mr. William T. Nesbet, of Schell City, Mo. It is intended as a rain water filter, by which the water from the roof is strained and filtered before entering the cistern, and has a vertically placed cylinder, within which is a smaller perforated cylinder, to act as a strainer, arranged above the filter proper, the arrangement being such that the strainer and filter can be readily cleaned.

SCIENTIFIC AMERICAN BUILDING EDITION.

JUNE NUMBER.

TABLE OF CONTENTS.

- 1. Plate in Colors of a Twelve Hundred Dollar Cottage, with floor plans, also sheet of details, specifications, bills of estimate, etc.
2. Plate in Colors of a Five Thousand Dollar Residence, with plans, sheets of details, description, etc.
3. Plate in Colors of President Cleveland's Cottage, near Washington.
4. Residence of George Noakes, Esq., at Riverside Park, New York City. Page engraving.
5. A Dwelling for Three Thousand Dollars, with perspective and floor plans.
6. A Residence at Orange, N. J., with perspective and floor plans.
7. A Three Thousand Dollar House at Mount Hope, New York, with perspective and floor plans.
8. A Twenty Thousand Dollar Suburban Residence, with perspective and partial details. Full page engraving. An elegant design.
9. Residence of George W. Childs, Esq., at "Wootton," Delaware Co., Penn. Half page engraving.
10. Exhibition of Fine Arts, Venice. With one page of engravings.
11. A Hungarian Villa. Half page engraving.
12. Design for a Store and Stable adjoining. With engraving.
13. A Carriage House and Stable of moderate cost. With engraving.
14. Semi-detached Dwellings at Evanston, Ill. Half page engraving.
15. The Country Residence of George Ebers, Starnberger Lake. Half page engraving.
16. The new addition to the Metropolitan Museum of Art, Central Park, New York. With an engraving.
17. The Historic Monuments of France: The Roman Arch of Mars, at Reims. Half page engraving.
18. The Tower of Belem, near Lisbon. With half page engraving.
19. Two Churches of moderate cost, with perspective views and ground plans.
20. Residence of Mr. Arthur Lawrence, Maidenhead Thicket, Berks, near London, showing perspective and plans.
21. Modern Japanese Houses, five figures. Figure 1, Interior Arrangement of an Aino Dwelling; Figure 2, Aino House, Yezo; Figure 3, A Street Scene in Kyoto; Fig. 4, A Modern Japanese House; Fig. 5, Framing of an Ordinary Two-storyed House.
22. Miscellaneous Contents: Creosote Wood Preserving Stains.—Architectural Education.—The Silver Birch.—The Architect and House Drainage.—Failure of the New York Plumbers' Strike.—Seasoned Lumber.—A Building Union in Chicago.—Stability of Walls at Openings, illustrated with 11 figures.—The House of John Dryden in Fetter Lane, with two engravings.—Egyptian Reliefs.—Floors and Ceilings, Ancient and Modern, by C. Powell Karr, with several engravings.—Portugal Laurels by the Seaside.—The Equitable Building, New York.—Enamelled Brick of Different Colors, how to make.—Preservative Fire-proof Paint, how to make.—Warner's Improved Dry Plate Holder, illustrated.—Method of Unloading Grain, two illustrations.—A Wooden Tower nearly 1,000 feet high, illustrated.—Copper as a Roofing Material.—How to Wax Floors.—The Edelweiss, illustrated.—The Larch as a Lawn Tree, with two engravings.—Palms for Room Decoration, with illustration.—Cast-iron Beams under Repeated Impacts.—Cheap Steel Girders.—A Good Floor.—Root Choking of Drains.—To Transfer Prints to Wood.—Tree Growth.—Convention of National Association of Builders of the United States at Chicago.—The Vast Sums of Money expended by Builders.—Earthen Drains.—End Wood Flooring, illustrated.—The Florida Steam Heater, illustrated.—The Mason Reducing Valve, illustrated.—The New York Central Iron Works.—How to Clean Chamois Leather.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted, May 24, 1887, AND EACH BEARING THAT DATE.

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

- Air compressor, U. Cummings. 363,509
Amalgamating apparatus, gold, B. C. Molloy, 363,411, 363,412
Anchor, C. E. Best. 363,579
Animal trap, E. Oliver. 363,586
Animal trap, A. Sewel. 363,554
Ankle support, F. Hackey. 363,516
Awning, H. W. Schweckendiek. 363,548, 363,549
Axle box, car, W. P. Wylly. 363,782
Bag. See Paper bag. Traveling bag.
Bag hinge stay, C. Reinisch. 363,680
Bag holder, Wright & Burns. 363,780
Balance, W. Kent. 363,468
Bale ties, implement for buckling, F. S. Williams. 363,549
Baling press, T. J. Corning. 363,365
Baling press, J. J. Stoppole. 363,697
Baling press, H. L. Whitman. 363,706
Bar. See Car draw bar.
Barrel roller, H. N. Hopkins. 363,744
Barrel swing or crane, C. H. Keehner. 363,648
Bathing closet and apparatus for administering steam, hot air, etc., baths, combined, J. W. Schoenecker. 363,423
Beans, machine for cutting string, Young & Green. 363,785
Bed, portable, J. M. Strout. 363,773
Bicycle luggage carrier, C. R. Bannhr. 363,355
Blacking, J. Prickett. 363,420
Board. See Ironing board.
Bobbin stand, A. W. Parkhurst. 363,671
Boiler. See Domestic boiler.
Boiler cleaner, C. D. Wilcox. 363,443
Book support, B. R. King. 363,396
Boot or shoe burnishing machine, E. M. Parkhurst. 363,537
Bottle, internally stoppered, D. Rylands. 363,768
Bottles, box for, J. F. Sleeper. 363,690
Bottling aerated liquids, machine for, Brown & Johnston. 363,504
Box. See Axle box. Cigar box. Folding box. Music box.
Box making machine, C. Crawford. 363,592
Brace. See Carriage top brace.
Bracket. See Scaffold bracket.
Braid for binding, M. H. Foullet-Chevaunce. 363,627
Brake. See Car brake. Machine brake. Wagon brake.
Brakes, method of and apparatus for operating pressure or vacuum, H. Hollerith. 363,463
Broiling, roasting, etc., apparatus for, E. P. Houston. 363,519
Brooch, J. & T. J. Porte. 363,761
Broom holder, brush, W. J. Lynch. 363,752
Bustle, D. O. Fosgate. 363,458
Button, F. A. Fox. 363,628
Button, L. A. Platt. 363,676
Button and button fastener, R. J. Kyle. 363,523
Button, convertible, L. D. Frenot. 363,738
Can. See Lamp filling can.
Canister, P. Metzger. 363,694
Canopy, portable folding, G. B. Wirgman. 363,713
Car brake, R. J. Brown. 363,722
Car brake, H. M. Glines. 363,382
Car brake, street, G. Troller. 363,777
Car coupling, W. E. Caton. 363,589
Car coupling, R. J. Edwards. 363,614
Car coupling, A. N. Hall. 363,385
Car coupling, E. E. Herrinton. 363,636
Car coupling, W. S. Lennon. 363,474
Car coupling, L. Self. 363,551
Car coupling, Thurber & Brockway. 363,490
Car coupling, B. F. Warren. 363,783
Car coupling, D. Y. Wilson. 363,784
Car draw bar, I. O. Phillips. 363,539
Car, dumping, A. C. M. Anguin. 363,718
Car platforms, safety bridge for, W. Schirmer. 363,485
Car, railway, H. C. Fay. 363,378
Car starter and brake, W. H. Snider. 363,770
Car ventilator, H. E. Jacobs. 363,442
Car wheel, J. Goettel. 363,388
Car wheels, device for changing railway, L. F. Smith. 363,692
Car wheels, pattern for, J. N. Conway. 363,568
Car window screen, Groves & Wyckoff. 363,384
Cars of cable roads, switching grip, W. C. Klemme. 363,747
Carding engine, W. Dobson. 363,609
Carding engine, Dobson & Bromiley. 363,732
Carding machine, M. Descards. 363,612
Carpet fabric, G. Crompton. 363,366
Carriage, folding, W. Singer. 363,427
Carriage top brace, J. Bauer. 363,357
Carrier. See Bicycle luggage carrier.
Cart, road, G. J. Cline. 363,727
Case. See Show case.
Casks, bushing for, C. Hammer. 363,633
Caster, G. E. Hill. 363,637
Casting car wheels, W. Wilmington. 363,444
Cement, I. Lichtentag. 363,402
Chair. See Surgical chair.
Chimney top, G. Turner. 363,778
Chuck, Stearns & Waterstreet. 363,431
Churn, A. V. Cook. 363,450
Churn dasher, Vernon & Reeves. 363,759
Cigar box, D. H. Jaccard. 363,467
Cigar holder, skeleton, M. P. Hough. 363,391
Cleaner. See Boiler cleaner.
Clock movement, secondary electric, C. D. Warden. 363,440
Clock, primary electric pendulum, J. Zeiner. 363,498
Closet. See Bathing closet. Water closet.
Cloth cutting machine, A. Warth. 363,705
Clothes line hook, L. Coyne. 363,601
Clothes pounder, E. A. Beans. 363,358
Clutch, F. J. Henriksen. 363,655
Clutch, White & Moore. 363,707
Clutch, friction, Crompton & Wyman. 363,507
Clutch, friction, D. B. West. 363,493
Clutch mechanism, J. Reece. 363,421
Cock, gas or other, J. V. Horn. 363,639
Coffins, device for lowering, J. T. Meredith. 363,530
Comfortables from continuous fabrics, making, F. L. Palmer. 363,670
Corn drill and planter, double lister, Williams & Whitney. 363,711
Corn shellers, husk cutting attachment for, W. W. Wills. 363,712
Corn, shield for listed, J. A. Showers. 363,426
Corset fastener, R. M. Hunter. 363,393
Coupling. See Car coupling. Hose coupling. Pipe coupling.
Crane, F. Service. 363,424
Cuffholder, E. S. Smith. 363,699
Cuff holder, C. H. Tappan. 363,639
Cultivator, R. & M. R. Adams. 363,571
Cultivator, wheel, P. Scharbach. 363,686
Cutter. See Sheet metal cutter.
Cutter head, J. B. Mahaffey. 363,753
Cyclometers, mechanical movement for, M. H. Downes. 363,735
Damper regulator, Fowler & Chadwick. 363,459
Dental plugger, A. C. Greenlee. 363,630
Die. See Screw cutting die.
Die stock, W. D. Forbes. 363,626
Digger. See Post hole digger.
Display frame, S. Dancyger. 363,369
Distilling petroleum, L. Stevens. 363,432
Ditcher, tile, H. I. Potter. 363,540
Ditching machine, A. Stewart. 363,560
Domestic boiler, J. Reilly. 363,542
Door catch and door opening device, combined, C. H. Miller. 363,666
Door check, C. H. Shaw. 363,628
Door, combined screen and storm, Guthrie & Baumgardner. 363,740
Door spring, W. H. Brown. 363,361
Drawer, J. H. Knaus. 363,647
Drawers, J. B. Wood. 363,445
Drier. See Lumber drier.
Drill. See Corn drill. Grain drill.
Drill tube, T. R. Crane. 363,606
Drills, fertilizer feed for, T. R. Crane. 363,608
Drilling machine, coal and rock, E. Moser. 363,477
Dyestuffs and coloring matter, manufacture of, F. Bayer. 363,502
Eccentric, shifting, J. Grant. 363,629
Elastic fabric, T. Taylor. 363,434
Electric lock, M. I. Flowers. 363,423
Electric motor and dynamo electric machine, R. M. Hunter. 363,466
Electrical energy into mechanical force, system of conversion, H. M. Painé. 363,669
Electrolyte, A. C. Tichenor. 363,562
Elevator. See Portable elevator.
Embroidering, combined presser foot and guide for use in, J. F. Atherton. 363,573
End gate wagon, M. Davis. 363,609
Engine. See Carding engine. Gas engine. Oscillating engine. Piston engine. Rotary engine. Traction engine.
Eraser, polisher, and stamp, combined, Kerner & Brown. 363,469
Evener, four horse, E. R. Bird. 363,859
Exercising machine, W. L. Coop. 363,599
Eyelets to articles of wearing apparel, attaching, A. P. McGraw. 363,406
Fabric. See Carpet fabric. Elastic fabric.
Faucet, measuring, T. Beck. 363,575
Fence, R. C. Saunders. 363,686
Fence, W. J. Smith. 363,557
File cutting machine, A. Weed. 363,492
File or clip, paper, J. Munger. 363,633
Filter, W. T. Nesbet. 363,668
Fire kindler, C. Van Gulpen. 363,703
Folding box or crate, J. C. & W. L. Thompson. 363,700
Frame. See Display frame. Lantern frame. Piano-action frame.
Fruit, foliage, and flowers, artificial, E. H. Eve. 363,736
Fruit picker, G. C. Thompson. 363,437
Fumigator, W. F. Line. 363,403
Furnace for the combustion of refuse, Stafford & Pearson. 363,558
Furniture, S. Hayward. 363,389
Gauge. See Micrometer gauge.
Gauge and dividers, combined, S. Copeland. 363,000
Garments, safety pocket for, A. Brenowitz. 363,586
Garments, waistband for, W. E. Smith. 363,486
Gas engine, J. S. Wood. 363,497
Gas fixture, A. W. Zimmerman. 363,787
Gas generating apparatus, J. A. Price. 363,451
Gas motor engines, pendulum governor for, F. W. Crossiv et al. 363,608
Gas, stop-off valve for, H. Stewart. 363,696
Gate. See End gate. Railway gate.
Gear, automatic reversing, S. S. Barrie. 363,501
Gearing for changing speed, I. M. Sweet. 363,776
Gem settings, construction of, O. T. Smith. 363,556
Glass tubes, instrument for cutting off, Toedt & Burnham. 363,563
Glassware, machine for finishing articles of, Blackburn & Mann. 363,660