

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

RAIL.—L. STEINBERGER, New York, N. Y. Certain advantageous features are embodied in this invention, among them being provision for allowing the rail to rock slightly during the passing of a train, and insuring a more constant and nearer perfect contact; for providing a bearing-surface for distributing pounding action; for relieving the rail and support of undue strains; for limiting movements thus set up in the rail; for supporting the rail against displacement; for more effectively shedding rain, sleet, snow, etc.; for more thoroughly insulating rail from cross-tie, and for providing a form of rail more readily distinguishable from ordinary rails, thereby preventing accidents.

SUPPORT FOR RAILS.—L. STEINBERGER, New York, N. Y. Mr. Steinberger's invention relates to a means for supporting rails and admits of general use, but is particularly applicable to railway systems employing the so-called "third rail" for the purpose of distributing the electric current. Among the several objects of the invention, one is to permit a maximum relative movement as between the rail and its support in a plurality of directions. Another, to provide an insulated rail-support presenting the least possible mechanical contact-surfaces to the rail, thereby allowing the rail free movement and avoiding possibility of rail sticking to its support, and thereby hindering or breaking it.

ELECTRIC SIGNALING SYSTEM.—J. DIANOVSKY, Passaic, N. J. The object in this case is to provide a system, more especially designed for preventing collisions of trains and arranged to automatically bring a train to a stop when it passes into a section occupied by the train ahead to allow the engineer of the last train to put himself in telegraphic communication with the engineer of the train ahead, or vice versa, and to allow proper dispatch of the trains from a terminal station without danger of derailing or collision by imperfectly set switches.

ELECTRIC RAILROAD-CROSSING SIGNAL.—T. C. CLARK, Cambridge, Ohio. This signal for warning teams and pedestrians, comprises two circuit-closing devices arranged in the track, one each side of the crossing and about one hundred and fifty yards from the same, an electric bell which is mounted in a box at the crossing and arranged to be rung upon the approach of a train in either direction, a commutator with electric motor for turning it by which the time during which the bell is to continue in operation is controlled, and electromechanical devices for opening and closing the various circuits and holding them open or closed, as required, and also a circuit-breaking device for the track-circuit.

ELECTRIC SIGNALING SYSTEM.—S. I. YOUNG, New York, N. Y. In this patent the invention consists in a signaling system especially adapted for use on electric railways where the motive power employed is a source of direct-current energy. The object is to provide means whereby the condition of any section of the railway may be visibly, audibly, or otherwise indicated—as for instance, through the operation of semaphore-arms, bells, lights, etc.—or whereby the speed of movement of any car upon the railway may be modified upon entering or leaving any section of such railway—as, for instance, by automatically varying the resistance of the motor-circuit.

Of Interest to Farmers.

PLANTER.—J. H. GROOTERS, Allendorf, Iowa. In this case the purpose is to provide a means for releasing the seed from the seed box or boxes at proper periods, which means are controlled by the guide wire, chain, or cable used in connection with the machine, and further features relate to the construction of the seed-dropping devices, means for regulating the winding of the chain or cable upon the drum, and the construction of the drill shoes which are provided with devices at their lower ends for releasing seed to be dropped into the ground.

DEVICE FOR OPENING OR CLOSING GATES.—H. C. MORGAN, Eugene, Ore. By this improvement the inventor so arranges the ropes and pulleys as to enable the operator to open and close the gate from any point on the ground, in a wagon, or on a lead of hay, or the gate may be opened by a cable on the ground or by a man on horseback or without the use of ropes as may be desired.

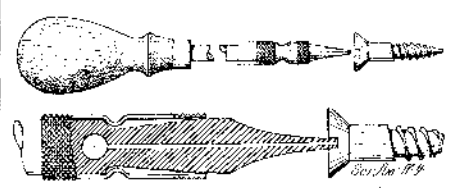
Of General Interest.

ATTACHMENT FOR MARINERS' COMPASSES.—J. ROYER, St. Johns, Newfoundland. This attachment enables bearings of heavenly bodies, landmarks, lights, and distant objects to be taken accurately, enables accurate bearings to be taken at night, the mariner to discover deviation of his compass by taking fixed bearings and comparing with compass indication, accurate bearings to be taken with binoculars without its removal or interference with its hood or top, bearings to be taken off pole-compasses, and to discover by noting bearings of a fixed object from time to time how tide is setting.

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 the paper.

IMPROVED SCREWDRIVER.

Electricians and others who are required to drive screws in difficult and inconvenient places, will appreciate the value of the screwdriver here illustrated. The blade of the screwdriver consists of two jaws, over which a sleeve is fitted. This sleeve is so arranged that when moved forward it will crowd the jaws together, permitting them to be inserted



in the screw slot, and when the sleeve is withdrawn, the jaws will spread and hold the screw by pressing against the side walls of the screw slot. The screw can then be driven without the necessity of being held by the hand. Mr. S. E. Condon, 266 Hewes Street, Brooklyn, N. Y., who is the inventor of this screwdriver, desires to dispose of his patent, either outright or on a royalty, to some established manufacturer.

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. 5719.—Wanted, a proofing compound for oiled clothing which will dry with a surface free from all stickiness.

AUTOS.—Duryea Power Co., Reading, Pa. Inquiry No. 5720.—For makers of refrigerating plants of one half or one ton capacity.

For hoisting engines. J. S. Mundy, Newark, N. J. Inquiry No. 5721.—For information in regard to making wood alcohol, acetate of lime, etc., in connection with charcoal production.

"C. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 5722.—For manufacturers of sad-irons or flat-irons which are heated by gasoline.

If it is a paper tube we can supply it. Textile Tube Company, Fall River, Mass. Inquiry No. 5723.—For manufacturers of small, complicated springs and clips, of music wire.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 5724.—For parties to make small special steel chains of 10 gauge (B. & Sharpe) wire.

WANTED.—Exclusive sale improved automobile specialties. Specialties, Box 773, New York. Inquiry No. 5725.—Wanted, a 3 h. p. marine boiler.

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

Inquiry No. 5726.—For manufacturers of pile drivers. Sheet metal, any kind, cut, formed any shape. Die making, wire forming, embossing, lettering, stamping, punching. Metal Stamping Co., Niagara Falls, N. Y.

Inquiry No. 5727.—For makers of creosote shingles for roofing purposes. Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 15 South Canal Street, Chicago.

Inquiry No. 5728.—For small fancy tassels made of paper, card, etc. Inquiry No. 5729.—For parties to make to order stampings of wrought iron or soft steel plate, 3/4 inch thick.

Inquiry No. 5730.—For makers of photo-button frames and photo jewelry. Inquiry No. 5731.—For makers of rotary fans driven by clockwork.

Inquiry No. 5732.—For makers of brick-making machinery. Inquiry No. 5733.—For maker of gas balloons.

Inquiry No. 5734.—For the address of the firm in Connecticut making little Egyptian charms. Inquiry No. 5735.—For makers of electric and motor truck for hose truck for fire department.

Inquiry No. 5736.—Wanted, a patent for a good selling appliance, for sale at a fair figure. Inquiry No. 5637.—Firms manufacturing machinery for a pencil factory.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending June 28, 1904

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

Table listing inventions with patent numbers, including Abdominal hernia-pad, Acid proof composition, Adding and recording machine, Adjustable bracket for mirrors, etc., Air brake apparatus, Alarm device, Aluminum, electrolytic manufacture of, Gin.

Main table listing inventions with patent numbers, including Attaching and detaching device, Alexander, Audiphone, C. J. Massinger, Automatic coupling, Lukens & Hughes, Automatic signal, T. F. Keating, Automobile, L. Lacoin, Axle, vehicle, J. B. Baynes, Bag frame, B. von Eigen, Bake pan, J. A. Bailey, Baling press, W. H. Kaufman, Bar which cannot be sawed through, P. D. Ziegler, Barometer, aneroid, F. E. Collinson, Barrel hoop, wire, J. F. Pool, Barrel rack, A. A. Charlebois, Basket, E. L. Walker, Basket, grape, E. L. Walker, Basket handle, detachable, E. R. Walker, Beating engine bed-plate, S. R. Wagg, Bed, folding, H. Brandt, Beet lifter and tapper, Smith & Giddings, Bench, See Toy bench, Binder, loose leaf, G. P. Williams, Block molding machine, L. P. Normandin, Block signal, automatic electric, W. A. Luby, Blotter holder, J. A. Walsh, Boat, C. A. Manker, Boiler check, A. B. Haller, Book binding, C. Chivers, Book, manifold, H. E. Delbare, Book protector, S. L. Greene, Boot or shoe, K. Engel, Boot tree, inflatable, H. G. Hoyes, Boring machine, Duquette & Heath, Bottle, E. E. Lewis, Bottle filling machine, W. F. Fanning, Bottle, non-refillable, A. G. Abizaid, Bottle, non-refillable, G. Zister, Box fastener, D. A. Schabel, Brake and mud guard, combined, F. L. Fisher, Brewer, kettle, jar, tank, and cooker, combined, E. F. Lettinger, Brick drier, moving, L. P. Armstrong, Briquet machine, F. Meyer, Broom heads, making, S. P. Edmiston, Bucket, lifting, Hains & Weaver, Bucket, well, C. A. Crane, Building block forming machine, W. Raab, Burial caskets, etc., handle for, G. A. Schebr, Burner, See Gas burner, Burner, P. B. Curran, Button, C. Schmidt, Calipers, J. T. Lemon, Can caps or seals, tool for locking, H. A. Truesdale, Candle extinguisher, G. Stevenson, Cap, convertible tourist and automobile, R. Fox, Car check, J. W. Aregood, Car door, grain, W. A. McGuire, Car dumping mechanism, metallic, A. Becker, Car, flexible wheel base, G. L. Stuebner, Car guard rail, street, J. J. Collins, Car, hopper, Russell & Ames, Car, hopper bottom, Wolf & Lipschutz, Car lubricating apparatus, W. J. Raum, Car, metallic flush floor dump, A. Becker, Car roof, metallic railway, J. J. Souder, Car underframe, railway, C. E. Bauer, Car wheel, D. P. Rennie, Cars, device for loading or unloading trains of, J. A. McManus, Carbide from pulverized carbonaceous materials, separating, J. D. Daring, Carbon sheet holder, F. Jefferson, Carbonating apparatus, A. Heymann, Carousal, H. S. Thomas, Carpet fastener, W. Haussler, Case, See Exhibition case, Cellulose, converting wood, Ewen & Tomlinson, Cement, composition of matter for, A. L. Ginter, Cement derived from ashes and making same, M. W. Marsden, Certificate of deposit, A. W. Moore, Chafe iron, roller, T. I. Brady, Chair, F. Bennett, Check-canceling press, A. Dietze, Chest protector, C. Uebel, Christmas tree holder, J. C. Chenot, Chuck, G. R. Rich, Churn, C. Y. Lavender, Circuit closing device, A. B. Chance, Clay or other insoluble materials, apparatus for separating, M. W. Phillips, Clay or other insoluble materials, separating, M. W. Phillips, Clock chiming and repeating mechanism, C. A. Jacques, Cloth shearing machine, W. F. Ambach, Clothes pin, A. F. Pickert, Coal sieve or separator, J. G. Brock, Coat and hat hanger, M. H. & B. F. Burton, Cohere, W. S. Hogg, Coin receptacle, H. P. Townsend, Coke, making, M. R. Conley, Coke oven, electric, M. R. Conley, Colors, preparation of salts of iron for use in oil, R. Vidal, Concentrating table, G. A. Overstrom, Concentrating table actuating mechanism, A. G. Peterson, Concrete wall making apparatus, H. Dohl, Condiment holder, L. W. Livingston, Continuous kiln, P. L. Youngren, Conveyor, J. C. Hoshor, Conveying driving mechanism, J. C. Hoshor, Cop cutting mechanism, T. Hansen, Copper sulfate, making, G. Gian, Corn cutting and shocking machine, D. T. Phillips, Corn husking machine husking roller, E. A. Tolson, Corn shock binding device, W. J. Nicholson, Corn shock loader, D. T. Phillips, Corn shock or hay loading or stacking apparatus, J. Peterson, Cotton blending and cleaning apparatus, C. B. Sample, Cotton cleaner and gin feeder, J. W. Gooch, Cotton picker, pneumatic, R. Getzlaff, Coupling device, Schmidt & Mayland, Coupling pins in couplings, device for holding fast, fractured, H. L. Gillett, Crank motion, variable, E. E. Emerson, Crate for berry boxes, etc., folding, E. L. Walker, Cremating furnace, W. Horsfall, Cross tie, E. J. Johnson, Cuff holder, E. E. Dean, Culinary utensil, C. Caucini, Cultivator, S. W. Rowell, Cultivator, motor driven, E. Imperiale, Current motor, alternating, M. C. Massie, Curtain fixture, window, C. E. Heinrich, Curtain pole, W. M. Black, Curtain pole, self supporting, C. Benson, Curtain ring, A. L. Parker, Cutter, T. B. Miller, Cutting tool, A. E. Venn, Damper regulator, stove, J. R. Reed, Decorative light, H. Sax, Deflectors, apparatus for reading angular, P. H. Wynne, Dental plates, swaging or fitting, A. L. Fisher, Dental tool guard, R. L. Magee, Desk or writing table attachment, school, Gilson & Rowe, Die for cutting taper threads, W. Vosper, Directory, telephone, M. G. Brownell, Diseases, cabinet for treatment of hemorrhoids or other, B. F. Johnson, Dispensing vessel, J. G. Lowe, Door hanger, C. E. Harrington, Drapery hook, L. Nachb, Draw-clamp for draw benches, Berghof & Theberath, Drawer guide, W. Laakso, Drier, See Brick drier, Drying materials, L. Gathmann, Drying substances, L. Gathmann, Drilling machine, T. G. Davis, Duplicating machine, C. H. Colter, Dye and making same, orange tetrax, Jeddlicka & Schedler, Dyeing composition, G. M. Lawton, Basel, E. C. Entler, Eaves trough hanger, C. S. Welford, Educational device, O. H. Pewers, Electric battery, P. J. Kamperdyk, Electric fixture support for outlet boxes, W. F. Bessert, Electric lighting system for vehicles, J. A. Little, Electric machinery control, dynamo, E. B. Carichoff, Electric machines in adjustable relation, means for securing the stators and rotors of, Bohlander & Pfeifer, Electric regulating switch, Dix & Sandford, Electric switch, W. S. Tobie, Electric transmitter, Mundy & Smith, Electrical exchange, automatic, Lundquist & Erickson, Electrical uses, resistance for, J. F. Tracy, Elevator, G. Visco, Elevator doors, locking and interlocking attachments for sidewalk, P. H. Jackson, Embossing press attachment, H. G. Turner, End gate, wagon, C. E. Blynton, Engine cylinder, steam, L. R. Alleman, Engine drum, hoisting, derrick, or similar, A. E. Norris, Engine exhaust muffler, explosive, D. Ogden, Engine lubricating apparatus, E. D. Caldwell, Envelope, E. Z. Wanous, Envelope, safety, H. Krueze, Jr., Exercising machine, Frazee & Whitcomb, Exhibition case, revolvable, D. Woods, Explosion motor, R. Algrin, Explosive, W. Kirssanoff, Explosive compound, C. M. Hall, Explosive motor, rotary, C. A. Marlitt, Eyeglass nose guard, G. J. Kirby, Fabric cutting machine, Sewbwing & Smith, Fabric cabinet or index, A. J. Walker, Faucet, two way, S. S. Williamson, Feed water supply regulating apparatus, J. Davie, Feeding mechanism, E. A. Oakes, Jr., Fence-gate, G. H. Hamann, Fence stay clamp, wire, P. B. Yeider, Fence, wire, W. M. Wadleigh, Fence wire tightening device or tool, F. Vogelzang, Fertilizer, F. F. Wright, File, cabinet or index, A. J. Walker, File or rasp cutting machine, H. Crane, Jr., Film developing machine, J. M. Brainerd, Filter beds, apparatus for removing material from the surface of, H. W. Blaisdell, Fire shutter, P. Elmer, Firearm ejector mechanism, E. Beach, Firearm removable joint pin, A. H. Day, Fireproof ceiling, H. Schmidt, Fireproof floor and ceiling construction, H. & C. L. Oliver, Fish line float, F. Lachmann, Fishing gaff, M. F. Cook, Flask, See Foundry flask, Fluid shut-off, W. & J. Beckel, Fluid switch, N. H. Mcbery, Flushing drains and sewers, means for, Shone & Ault, Folding chair, A. J. Jackley, Folding gate, J. Guerin, Folding machine, C. A. Sturtevant, Food, means for preparing liquid, S. Janu-Hewitz, Foundry flask, E. J. Cochran, Garment clasp, M. Coffey, reissue, 12,237, Gas burner, incandescent, L. T. Alton, Gas check, F. Geiger, Gas generator, P. Meyer, Gas generator, acetylene, W. W. Cozins, Gas generator, acetylene, A. V. Sanford, Gas making apparatus, C. M. Baker, Gas producer, P. J. Buckley, Gear transmission, F. G. Gies, Gear, two-speed reversing, F. A. Ferguson, Gearing for the transmission of power, wheel, G. S. Baker, Glass drawing machine, J. E. Berry, Glass grinding machine work holder, Starr & Garrett, Glass lamps, etc., manufacture of, E. W. Bryce, Glass sheets, apparatus for making, J. Proeger, Gloves, decorative, D. Rosenschmitt, Glove washing form, C. Kroll, Gold dredging machine tumbler, W. Ferris, Governor, engine or like, Taylor & Evans, Grader, road, H. Woods, Grain separator, S. A. Furman, Grating, safety, G. T. E. Henriksen, Grinder, wet, J. J. Rexroth, Grindstone fixture, T. P. Billis, Gun sight, A. M. Andrews, Hair line, D. J. Buckley, Hair restorer, J. E. Daughton, Handle, Parmenter & Kohler, Harvester, C. Hesse, Harvester attachment for raising and saving down grain, W. M. Wadleigh, Harvester, coin, W. V. Phillips, Harvester, corn, E. L. Schanck, Harvester, corn, D. T. Phillips, Harvester tongue truck, E. A. Johnston, Harvester, binding, and shocking machine, corn, D. T. Phillips, Harvesting machine grain elevating device, A. G. Peterson, Hat fastener, C. Dorn, Hatch cover, R. L. Lacey, Hay frame loader or unloader, J. B. Young, Headache, mechanical appliance for cure of, E. A. Turner, Jr., Headlight, F. C. & G. L. Wilson, Heating apparatus, Walz & Doherty, Heating apparatus, J. Collins, Heating furnace, C. W. Bryant, Heating furnace, J. Hirschmann, Heel, boot or shoe, M. Winants, Hinge, spring, E. Bommer, reissue, 12,236, Horseshoe calk, M. R. Jackson, Horseshoe, R. E. Johnson, Hose coupling, J. A. Allen, Hose coupling, W. H. Bailey, Hose nozzle holder, A. L. Chubb, Hydraulic intensifier, C. B. Albee, Hydraulic lift, R. H. Campbell, Ice cream mold, G. F. Dickson, Incandescent bodies, means for suspending, E. Kramer, Induction motor, alternating current, G. B. Dusbaberre, Insect destroyer, Wiesen & Crisp, Insecticide compound, O. D. Goodell, Insulating support for electric third rails, F. R. Slater, Internal combustion engine, H. C. Waite, Iron, See Smelting iron, Jar, W. S. Peple, Jaw wrench, sliding, A. D. Erb, Jewel mounting, A. A. Boismaure, Joint, P. F. Greenwood, Journal box or bearing for roll shafts, S. Hughes, Key guard, A. Morell, Knife, G. Brabrook, Knitting machine, circular spring needle, F. Wilcomb, Knitting machine needle and jack, Hurley & Shieff, Knockdown case, R. Schouten, Lace tipping machine, Albrecht & Ringwalt, Lamp wick raiser, J. Middaugh, Lantern globe mold, A. E. Houghton, Latch, gate, P. N. Risser, Lath template controlled turner, J. Hartness, Leather press, M. A. Holmes, Life preserver, A. Tabin, Lightning arrester, G. Babcock, Lightning arrester, apparatus for demonstrating the principle of, H. Simpson, Linotype machine, P. T. Dodge, Liquid receptacle indicator, M. Bray, Lock for lovers in interlocking machines, J. P. Coleman, Locking bar pipe, C. H. Hoskins, Loom dobbie, Schwarzbach & Lieber, Loom, filling replenishing, W. I. Stimpson, Loom, hand, S. H. Woodbury, Loom harness mechanism, C. E. Nutting, Loom stop motion, J. M. Grey,

Continuation of the patent index table from the previous block, listing inventions with patent numbers.