

Inquiry No. 1308.—For manufacturers of springs for turning tables in show windows.
Inquiry No. 1309.—For manufacturers of bakers machinery.
Inquiry No. 1310.—For wholesale dealers in lithographs, illuminated scripture text, etc., of German manufacture.
Inquiry No. 1311.—For manufacturers of paper lamp shades.
Inquiry No. 1312.—For manufacturers of push nipples, such as are used in the construction of radiators.
Inquiry No. 1313.—For manufacturers of cordage machinery.
Inquiry No. 1314.—For manufacturers of unfinished finger rings of brass or steel.
Inquiry No. 1315.—For manufacturers of incandescent light mantles.
Inquiry No. 1316.—For a new cigar-shaped balloon with propellers, etc., without the motor.
Inquiry No. 1317.—For manufacturers of hot-air engine castings.
Inquiry No. 1318.—For manufacturers of machinery for cutting, splitting and bundling fire wood.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.
References to former articles or answers should give date of paper and page or number of question.
Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.
Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.
Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.
Scientific American Supplements referred to may be had at the office. Price 10 cents each.
Books referred to promptly supplied on receipt of price.
Minerals sent for examination should be distinctly marked or labeled.

(3347) F. H. asks: 1. Apart from palladium, what metal is the best for plating reflectors in acetylene cycle lamp? A. Nickel is chiefly used for this purpose. It does not oxidize quickly and can be polished easily.
2. For an induction coil, giving 4 to 5 inches of spark, which is the better form of Tesla coil, the one described in "Bottoms El. Instruments" (also in Journal of the Inst. of El. Engineers, Vol. xxi., No. 97), or the one in SUPPLEMENT No. 1087? If the latter, what changes, if any, must be made in coil and condenser to adapt them to my induction coil? A. You will find the coil of SUPPLEMENT No. 1087 all right. Probably no changes will be required.
3. Is there an electrolytic interrupter that will work with so low a voltage as 10? A. No. C. D. C., Query 8203, seems to have had some difficulty in filling barometer tube. Allow me to suggest the method I used. Clean tube carefully, driving plug of cotton wool through it, soak first few plugs in benzine, others dry; close one end of tube over Bunsen burner, gently heating tube all over. Pour in chemically pure mercury to within half an inch of top; hold tube vertically over clean dry basin; run Bunsen burner up and down the tube. Bubbles of air then expand, and tapping the tube causes them to rise and escape. Fill up completely, stretch piece of India rubber measuring 6 inches by 1 over mouth of tube. Having about half-filled the cistern, invert tube, dip into mercury in cistern, and a little manipulation will draw away the strip of rubber. Found method to give good vacuum and to work even with small-bore tubes.

(3348) W. S. P. asks: Suppose on a party line having several lines an extra wire be run around each telephone, not cutting out the telephone at all, but merely making a double line at those points. I suppose this would not injure the speaking properties of telephone but would require double strength of current? A. You can use a shunt around your telephone as you suggest, but we do not think the speaking properties will be as good with it.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

August 27, 1901,

AND EACH BEARING THAT DATE.

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

Table listing inventions with patent numbers, including: Adding machine, A. J. Meyer; Agricultural machine, D. K. Udall; Air, apparatus for preheating and moistening compressed, W. O. Webber; Air currents, apparatus for equalizing, R. Goll; Amalgamator, E. J. Kiss; Ammonium ichthyl sulphate, making, A. C. McLaughlin; Animal trap, E. D. Davis; Anvil attachment, J. H. Fulwider; Ash can, R. Frame; Automatic brake, W. Voss; Automatic lubricator, W. O. Worth; Axle shafts of railway carriages, etc., anti-friction mechanism for, J. E. Cooper; Axle, vehicle, C. A. Dahlhaus; Bake pan, steam, J. Heyne; Balance sheet, trial or daily, J. Barker; Bale tie, R. Armatage; Baling press, Culbertson & Kirkpatrick; Baling press, J. P. Walker; Barrel stand, McClary & Gray.

Table listing inventions with patent numbers, including: Bat forming mechanism, Pope & Mims; Bath cabinet, W. A. Durrin; Batteries, diaphragm for electric, J. L. Dobbell; Battery plates, making secondary, B. Kuettner; Beam, metallic, H. H. Felt; Bearing, antifriction, D. E. Kempster; Bearing, roller, J. Holt; Bed, couch, W. S. Bowie; Binder reel, C. W. Switzer; Bisulfite liquor, apparatus for producing, G. A. Stebbins; Blank producing machine, A. W. Robinson; Block, See Paving block; Boat, A. E. Chambers; Boat, submarine, J. P. Holland; Boiler coils, apparatus for making, S. D. Mott; Boiler water circulator, S. D. Mott; Bookcase, sectional, R. Hatch; Books, ledgers, etc., lock for adjustable back frames of account, A. D. Hulquist; Bottle, non-refillable, W. V. K. Ayres; Bottle sprinkler, W. Kinghome; Bouillon boiler, H. A. Chavous; Box, P. H. Houghland; Box tray machine, C. F. Wieser; Boxes, machine for packing articles into, P. Butler; Braiding machine, A. V. Groupe; Breastpin or the like, G. A. Hawver; Bronze powder, machine for making, M. J. Fuchs; Brooder, W. H. McCormick; Brush holder supporting device, J. P. Mallett; Buckle, J. C. Smith; Building frame, N. T. McCleer; Bumping post, J. B. Cox; Burglar alarm, J. B. Yeakle; Button or stud, collar, W. Sweeney; Cable power, C. J. Eastman; Cake turner, pan, W. Tomaskoff; Camera support, photographic, A. T. Saunders; Camera's, changing bag for, M. Neill; Camera or photographic apparatus, support for, Bowen & Harmon; Can, See Ash can; Can opener, C. Farrell; Car coupling, A. Vezina; Car coupling, Potts & Ruckel; Car door fastener, J. E. Barlow; Car door, grain, J. D. Hoover; Car fender, J. B. Wood; Car fender, street, C. T. Stoelting; Car, fruit, P. B. Bayless; Car replacer and wheel shoe, combined, J. Jones; Car sign, C. H. Wilson; Carbonating apparatus, liquid, W. J. Young; Carding machine stop motion, Morgan & Hannum; Carpet stretcher, A. Parrott; Carriage, motor, A. S. Parsons; Cart, road, W. A. Cowley; Cart shovel and scraper, A. Gehring; Cartridge machine, P. Butler; Cartridge shell trimming machine, P. Butler; Casein and casein glue, manufacture of, C. H. Bellamy; Cash register, L. Ehrlich; Castings, producing soft metal, G. H. Braubook; Cellulose separator, R. Dietrich; Checkrein connector, J. C. Minor; Cheese marker, Hulise & Wilkin; Chock and guide, combined, F. Miller; Chocolate drops or the like, machine for wrapping, J. Walker; Churn, G. G. Beynon; Clavier, practice, A. C. Bergman; Clock, alarm, C. A. Svensson; Close box, F. X. L. Goseniecki; Clothes drier, B. Junger; Clutch, fluid, Milmo & Porter; Cock, compression swing basin, E. G. Hedges; Collapsible or knockdown box, set up and secured, Birnie & Gay; Column for interior cabinet work, F. Gold-enbogen; Columns, manufacturing iron, R. Rau; Comb, L. E. Fox; Comb cleaner, G. Giorda; Composition of matter, N. B. Mayer; Corn shocker, F. A. Ryther; Corn shocker, J. M. Shively; Corset, L. G. Walker; Cotton gin, roller, D. S. Chapin; Cotton press, Morrison & Cameron; Couch, W. S. Bowie; Crane for picking tanks, etc., Stiefel & Nicholson; Crane, overhead traveling, G. W. Packer; Cross ties, machine for cutting, C. A. Hege; Crusher, See Ore crusher; Cuff holder, W. Thurman; Cultivator, sulky, A. Metzel; Curtain fixture, G. E. Curtis; Cutting and boring machine, disk, H. Bliss; Cutting machine, continuous, H. D. Perky; Dental forceps, A. H. Jacob; Dental impression cup, J. W. Fowler; Detergent composition, A. Y. Hubbell; Diseases, apparatus for treating, H. E. Waite; Door check, P. Vincent; Draft or buffing rigging, R. D. Gallagher, Jr.; Drainer or colander, R. I. Byrne; Drills, means for aligning, W. Reed; Dust pan and broom holder, combined, J. V. Dille; Dyeing, R. Bohn; Eccentric of mineral or ore washing jigs, adjustable, C. J. Hodge; Egg boiler, automatic, C. H. Blanchard; Electric cables, removable jacket for, J. Wolf; Electric conductor outlet, Goehst & Wilkes; Electric machine, dynamo, J. B. Blood; Electric switch, C. B. Thomas; Electric switch for alarms, I. B. Chantler; Electric traction road, L. Dion; Electric wires, attaching plug for, L. H. Stuart; Elevating machine, portable, Shoemaker & Wilson; Elevator driving mechanism, M. A. Flaunt; Engine, J. C. Baker; Engine exhaust mechanism, explosive, W. L. Corson; Engine feed cup, explosive, E. Westman; Engine muffler, gas or other, J. B. Penner; Engine speed regulator, explosive, W. D. Worth; Engine starting device, internal combustion, W. O. Very; Engines, fuel feed device for explosive, A. Saurer; Engines, incandescent igniting tube for gas, S. J. Anderson; Envelop, Walcott & Epstein; Envelop, J. Sallade; Eraser and drier, combined, J. Tyre; Excavator, King & Barnhart; Exercising apparatus, J. S. Adleman; Extension table, C. W. Fuller; Eyes or loops, feeding mechanism for feeding articles having, W. O. Bement; Fan, bicycle, McConne & Muly; Fan, centrifugal, S. C. Davidson; Faucet, measuring, H. Q. Hood; Fence post, M. W. Howard; Fertilizer distributor, H. McVea; Filter, A. L. Baron; Filter, oil, A. H. Franke; Fire alarm, explosive, S. C. Guthrie; Firearm, automatic, T. C. Johnson; Fireproof grain bin and door, O. Hoff; Fire resisting blinds or doors, means for securing channels or guideways of, W. R. Kinnear; Fishing bait, artificial, P. Geen; Flanging machine, circular, T. F. Rowland, Jr.; Flash boiler, W. H. Coun; Floor, concrete, C. Ellet; Fly catcher, S. Frankel; Frog, wrecking, E. Smyth; Fruit gathering, R. E. Eddy; Furnace, See Smoke consuming furnace; Furnace fuel cleaners, steam boiler, H. Westergaard.

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Leger; Hatches, etc., mechanism for moving armored, W. B. Cowles; Hearing, magnetic device for restoring and aiding, S. G. Payn, Jr.; Heating and baking machine, continuous, H. D. Perky; Heel or sole molding machine, F. F. Raymond, 2d; Hinge, spring, Pomeroy & Albyne; Horse detacher, L. D. Howard; Horseshoe, R. W. Fadden; Horseshoe, M. L. Warner; Horseshoe, M. Hallaman; Horseshoe shaping device, M. Hallaman; Horseshoe, soft tread, C. P. Dryden; Hot air register attachment, M. Iversen; Hub attaching device, J. A. McNamara; Hub band, D. W. Call; Husking peg, R. Albach; Ice cream cabinet cover, C. Nelson; Ice making apparatus, T. Shipley; Index cabinet, R. W. Dickenson; Index tab, M. C. Tessel; Inhaler, ether, G. Otto; Insole, E. E. Orr; Iron frame construction, bracket for structural, S. D. Wright; Knitting machine, E. J. Franck; Knitting machine, E. D. Friedlander; Knitting machine, H. E. Harbaugh; Knitting machine presser bit, E. A. Hirner; Lamp, acetylene gas, W. F. Cooper; Lamp, acetylene gas, D. Brown; Lamp base, standing, W. E. Hawkins; Lamp burner, incandescent gas, W. Tice; Lamp, candle, T. C. Richards; Lamp, electric arc, F. B. Badt; Lamp, hydrocarbon vapor burning, A. R. Warner; Lamp shade holder, T. C. Richards; Lamp socket, D. A. Schutt; Lamps, heater for electrolytic incandescent, J. Swinburne; Land roller, F. A. Bruckman; Last block fastener, shoe, J. E. Scott; Lathing machine, T. Shee; Lath, metallic, G. A. Tuubill; Lath attachment, automatic, J. P. Brophy; Lathes, speed changing device for automatic, J. P. Brophy; Leather seasoning machine, T. Dawson; Leather skiving machine, J. R. Scott; Ledger, loose leaf, J. Barker; Lifts, steering mechanism for guideless, O. Kammerer; Line guide, E. A. Holcomb; Liquid raising apparatus, pneumatic, E. Gray; Lock, A. Petersen; Lock, P. Magaro; Locket, medallion, D. D. Nevins; Loom drop box picker, F. A. Wardwell; Loom protector mechanism, L. M. Phelps; Loom shuttle box operating mechanism, H. Bardsley; Loom shuttle guard, W. Rioux; Loom warp tension device, F. Stolzenberg; Loom warp replenishing and controlling mechanism, Baker & Kip; Lubricating device, W. A. Cornelius; Lubricating device, J. W. Bowerbank; Lubricator, G. B. Essex; Lubricator, C. B. Hodges; Magnets of dynamos or motors, core and pole piece for field, R. Hirsch; Mail bag fastener and tag holder, J. C. Whaley; Mantle support, T. Roderick; Marking machine, L. S. Burbank; Massage roller and exerciser, combination, G. W. Milkman; Match making machine, A. Kelley; Mather head, W. W. Philbrick; Mattress, W. W. Nichols; Measuring instrument for fitting horse collars, A. Jacquot; Meat, preserving, Manasse & Ihlenfeld; Meat tenderer, R. Roop; Mechanical movement, B. Poulson; Metal sheets, apparatus for drying pointed or varnished, H. G. Schumann; Microphone and telephone installation, L. Polinkowsky; Milling machines, apparatus for automatically returning work tables of, O. Schonauer; Mine shafts, hoist mechanism for, T. J. Barbour; Motor controller, R. W. Scott; Motor stop and motion indicator, A. R. Fortie; Motors, autopneumatic regulator for, W. B. Covell; Mower, N. S. Hindbargen; Mower, J. F. Ellsworth; Muffing device, A. O. Very; Music leaf turner, W. V. Morrow; Nut lock, J. F. Fisher; Nut lock, G. W. Dollinger; Nut lock, W. H. Tippit; Oil can, C. E. Sides; Oils, bleaching, J. C. W. Stanley; Oleaginous matters, apparatus for bleaching, J. C. W. Stanley; Ophthalmometers, chin rest for, J. E. Chambers; Ordnance, breech mechanism for breech loading, Dawson & Buckham; Ordnance mounting, C. Bonagente; Ore concentrator, P. H. Shue; Ore concentrator feed box, Michelsen & Borghum; Ore crusher, C. H. and H. C. Krause; Ore heating, roasting, and smelting furnace, combined, S. M. Trapp; Ores or compounds, reduction of, H. A. Irvine; Ores treating zinc bearing complex, G. de Bechi; Oxyhydrogen lights, pencil for, Schwanhauser & Elmer; Packing, piston, W. H. Alison; Paper, blotting, J. J. Tinker; Paper box machine, C. W. Gay; Paper making machine, J. H. Gately; Paying block, J. McLachlan; Pay table, C. Hirschfeld; Pedal, C. Glover; Pen or pencil holder, S. Forrester; Pens, dotting attachment for, H. Oettinger; Photographic plate rack, F. W. Potter; Piano, automatic, T. B. Powers; Piano pedal, J. A. Elwell; Picture hanging device, adjustable, E. P. Turner; Picture hanging nail, W. Edmundson; Pineapple eye snip, J. F. Pack; Pipe bending machine, C. R. McKibben; Pipe collar and flange, combined, J. H. Groves; Pipe coupling, hydrant or other water, H. L. Jordan.