

Business and Personal.

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Notes & Queries

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(7125) W. H. asks: Can hard rubber plates be used as well on a Wimshurst machine as glass? A. The trouble with hard rubber plates is their liability to warp. Otherwise they would answer admirably. 2. As a Wimshurst machine is more efficient, why do you always see Hertz machines advertised for X rays work? A. The Hertz machines seem more adapted for long sparks. The Wimshurst principle is usually employed on smaller machines.

(7126) C. writes: I wish to cement a glass cover to an iron cistern to contain mercury. Can you, through the columns of your valued journal, inform me how to prepare a cement adapted to this purpose which will likewise be vacuum tight and impervious to heat? A. Try silicate of soda. Your best plan is to attach it by a regular screw and flange attachment, packing it with asbestos board or some equivalent.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted MARCH 2, 1897, AND EACH BEARING THAT DATE. [See note at end of list about copies of these patents.]

Table listing inventions with patent numbers, including: Adjustable seat, H. B. Hiteshow; Agricultural implement, H. W. Dycus; Air brake hose coupling, E. W. Shertridge; Air heater, R. Crawford; Air heater and apparatus therefor, method of, H. Wood; Annealing apparatus, C. P. Turner; Auger, hollow, H. A. Carlson; Automatic switch, T. B. Griffin; Axle box, vehicle, T. J. Hale; Bag holder, C. J. Cain; Bag holder, L. C. Palmer; Bags, etc., folding mechanism for, B. F. Brown; Basket, D. J. Gooch; Bath tub, E. M. Reinhardt; Battery cell, combination, H. A. C. Anderson; Bearing, ball, G. T. Warwick; Bearing surfaces, apparatus for, W. H. Whittemore; Bedstead, O. S. Foster; Bell, bicycle, H. S. Pullman; Bell, bicycle, L. A. Sanford; Belt stretching machine, T. Murdock; Bicycle, A. L. Adams; Bicycle, P. L. Girardet, fils.; Bicycle, J. Harrison; Bicycle, D. di B. Savagnan; Bicycle, G. R. F. von Stegmann; Bicycle, I. E. Wales; Bicycle brake, F. J. Coombs; Bicycle crank and pedal mechanism, J. C. Anderson; Bicycle driving gear, G. & M. McDonald; Bicycle guiding stem, B. Arnold; Bicycle lock, C. Warman; Bicycle parcel carrier, F. W. Wentworth; Bicycle rest and repair stand, G. E. Bierbach; Bicycle saddle, B. S. Seaman; Bicycle shafts, device for removing cranks from, L. B. Hanna; Bicycle shoulder rest, G. O. Rogers; Bicycle stand and mud guard, F. S. Foley; Bicycle support, T. Jefferson; Bicycle support, C. C. La Riviere; Bicycle support, H. Thurston; Billiard cushion, S. de Gaetan; Blower, F. Eisenbeis; Bluing and starching compound for laundry use, C. A. Taney; Boat, H. A. House; Boiler, See Steam boiler; Boiler and condenser plant for heating feed water, F. Skvara; Bolt or spike extractor, J. Humphreys; Book, stock, P. M. Wolsieffer; Bottle, H. Ahlrichs;

Table listing inventions with patent numbers, including: Bottle, C. H. Parsons; Bottle, mouchage, C. S. Kellogg; Bottle, mouchage, F. van Gerpen; Bottle, non-refillable, H. Juckett; Bottle, non-refillable, C. A. Lord; Bottle, etc., protective, A. M. Gillam; Bottle, siphon, G. Corbin, Jr.; Bottle stopper, G. Dussau; Box, H. Wedekindt, Jr.; Brake, See Lamp bracket, Shelf bracket; Brake, See Bicycle brake, Cycle brake, Wagenbrake; Brake beam, L. R. Pomeroy; Brake beam strut, H. B. Reibschung; Break kiln, T. L. Myers; Brick or tile cutting machine, Ludlam & McKitt-trick; Bucket elevator, J. M. Dodge; Buckle, belt, M. T. Goldsmith; Buffer, W. B. Keighley; Bulkhead doors, apparatus for automatically closing, A. Van der Rapp; Bullet proof fabric, C. Zelen; Bung, C. A. Gilmeyer; Burglar alarm, A. S. Wester; Burner, See Gas burner, Hydrocarbon burner, Lamp burner, Vapor burner; Cabinet, star, Basler & Shnerer; Cane and torch, combined, O. F. Packard; Car coupling, J. J. Gaylord; Car coupling, C. H. W. Relyea; Car coupling, Wells & Lovett; Car door, L. Jacobs; Car draught, H. A. Lipschutz; Car fender, C. A. Hatch; Car fender, A. H. Jelly; Car fender, P. Jones; Car fender, J. E. Treat; Car lighting, electrical, M. Moskowitz; Car ventilator, stock, A. C. Mather; Card clothing, apparatus for attaching fillets to hats of, G. Goldschmidt; Carpet or door strip, S. W. Witt; Case, See Show case; Case for shoes, etc., C. A. Tucker; Cash register, H. W. Libbey; Cash, C. H. Homan; Chart, teaching, L. Snyder; Cheese press, D. A. Sprague; Chemical apparatus, G. Craig; Clamp, See Velm string clamp; Clevis, safety, B. Clark; Club, gymnastic, R. R. Gibson; Clutch and brake, coil, W. H. Lindsay; Coffin, J. D. Turberville; Commutator brush, Kester & Atherton; Condenser, See Condenser (reissue); Condenser, F. J. Weiss; Conveyor, J. A. Werner; Core and making same, M. H. Fletcher; Corset, M. Schacht; Corset fastener, C. H. 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Table listing inventions with patent numbers, including: Jug, A. J. Murphy; Key, J. J. Murphy; Key locking wrench, J. M. Pfeiffer; Kitchen cabinet, W. H. Haire; Knitting machine, J. L. Eck; Lacer and lacing, shoe, W. W. Munsell; Ladder, fire, M. A. Walker; Lamp, A. H. J. Schuilke; Lamp alternating current arc, E. R. Knowles; Lamp attachment, M. W. Beaton; Lamp, bicycle, D. R. Reynolds; Lamp bracket, W. C. Homan; Lamp burner, W. Bourke; Lamp burner, J. Collinge; Lamp burner, F. Davis; Lamp burner attachment, M. W. Volkenrath; Lamp, convertible signal, C. H. Dressel; Lamp, electric, M. W. Kohn; Lamp, electric arc, A. Guendel; Lamp lighter, time, C. H. Bigby; Lantern holder, E. P. Williams; Lantern, signal, H. K. Ruby; Lash rounding machine, F. & H. C. Stamm; Laundry polish, J. F. Gilmore; Leather washing machine, McKenzie & Shaw; Lemon juice extractor, C. B. Carter; Lumber drier, E. W. Williams; Lumber burner attachment, M. W. Volkenrath; Lumber drying, steam feed pipe for platen, F. W. 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Hunter; Pneumatic oil handle, W. M. Morse; Potato cutter, seed, Edley & Carlton; Pottery machine, J. F. & G. C. Burson; Precious metals from slimes, etc., process of and apparatus for extracting, White & Simpson; Press, See Cheese press, Printing press; Printing press, A. Gaites; Printing press punching attachment, W. C. Dillingham; Pump balancing apparatus, E. E. Clark; Pump, centrifugal, H. H. Jones; Pumped coupling, J. & J. Amstutz, Jr.; Pump, rotary, J. S. Attenhofer; Pump, rotary, E. J. Verrue; Punch, center, I. Beck; Purse, coin, B. Keith; Radiating attachment, stovepipe, J. H. Hoover; Rail bond, electric, B. J. Jones; Railway, electric, S. G. Brosius et al.; Railway, electric, C. Skinner; Railway signal, W. P. Hall; Railway signal, wiper arm, compensating device for, J. W. & R. J. Jones; Railway spike, J. K. Knudson; Rake, See Oyster or clam rake; Reamer, expandible, B. Whitney; Recording apparatus, W. L. Bunney; Recording instrument, message, B. Nowak; Refrigerating machine, expansion regulator, Sharpneck & Knox; Register, See Cash register, Telephone call register; Regulator, See Gas regulator, Heat regulator; Reim speed regulator; Rein hold; Rolling mill rolls, tool for cutting irregular grooves in, J. G. Walter; Rotary engine, S. S. Blevins; Ruler and time computing device, M. Isaacs; Ruling machine, C. Stell; Saddle pad, W. Vogler; Sail rig, self reefing sprit, L. A. Kimball; Sandpapering and buffing machine, T. E. Keavy; Saw, hand, C. H. Weston; Saw, portable drag, Birrell; Sawing machine, W. H. Thomas; Scale, J. C. Dixon; Seat, See Adjustable seat, Folding seat; Separator, See Ore separator, Steam separator; Sewing machine, Dial & Diamond; Sewing machine, L. Underdonk; Sewing machine, feeding mechanism, L. Underdonk; Sewing machine loop taker, Dial & Diamond; Sewing machine thread feeding device, G. Frame; Shift loop, H. A. Bireley; Sharpener, knife or shears, J. J. Ide et al.; Shear, hand, W. H. Strong; Shears, E. A. Sanders; Shelf bracket, sheet metal, T. Corscaden; Shoe or boot flexible support, H. J. Doughty; Shoe turning machine, G. H. Gifford; Show case, kneedown, F. E. Mistrot; Soda water fountain, H. & E. M. Green, Jr.; Soldering iron, brazier, etc., combined, P. V. Berge; Sorting table, E. F. B. Bourne; Sounding board, J. C. Livingston; Speaking tube attachment, E. C. Hess;

Table listing inventions with patent numbers, including: Speed regulator, centrifugal, L. H. Nash; Spinning machine, W. E. Allen; Spinning mill, S. Jackson; Spooling machine, Lawrence; Spooling machine, Draper & Rhodes; Stage, self supporting, H. Cummings; Steam boiler, G. Engel; Steam separator, H. H. Bates; Steaming apparatus, fabric, C. J. Gadd; Steering apparatus, ship's, C. H. Richardson; Stick sawing machine, J. Peckover; Steel, extensible and adjustable music, A. J. Gautrau; Stepper, See Bottle stepper, Flue stepper; Steve, cooking, J. H. Fizer; Street cleaner, Tilton & Bunnell; Switch, See Automatic switch, Electric switch; Snap switch; Table, See Sorting table; Table and checker board, combined, F. Horovitz; Tank, See Glass tank; Tank, A. E. L. Rice; Telephone, See Telephone; Telephone and annunciator system, combined, J. R. Strong; Telephone apparatus, table, L. M. Ericsson; Telephone call register, automatic, E. P. Boland; Telephone call register, Eckard & Oden; Thill coupling, E. P. Martin; Thill support, G. L. & R. Berman; Ticket holder, roll, J. L. Kirk; Time alarm, J. G. Hallas; Tire, bicycle, J. A. Burton; Tire, bicycle, Fogarty & Krueger; Tire, bicycle, E. Nelson; Tire, pneumatic, Bartlett & Murbach; Tongue support, G. W. Fletcher; Tool, Ford & Mahler; Tool, combination, M. D. Letteer; Toy card, N. M. Russell; Train controlling device, C. Shea; Trap, See Animal trap, Fly trap, Liquid seal trap; Trolley catcher, T. Holahan; Trolley pole controller, L. M. Halsey; Truck, car, H. Balnes; Trucks, center bearing bolster attachment for car, E. Cliff; Truss, H. W. Apply; Tub, See Bath tub; Tubes, machinery for manufacturing seamless steel, H. C. Williams; Tubing, plant for coating and drying, M. M. Nicholls; Twine tension device, C. Hansen; Type distributing machine, P. F. Cox; Typewriting and adding machine, J. C. Wolfe; Typewriting machine, L. B. Christy; Typewriting machine, C. Spiro; Valve, Starratt & Welsh; Valve, gate, H. N. Libbey; Valve gear, Cochran & Cameron; Valve, safety, G. M. Sheldrake; Vapor burner, L. Gefferer; Vapor burner, B. S. Kall; Vaporizer for petroleum engines, O. Bemborn; Vehicle, A. Schuber; Vehicle boot, B. R. Cowan; Vehicle wheel, C. E. Bulkeley; Vehicle wheel, H. C. Williams; Violin string clamp, J. B. Mahoney; Vise, A. Eckert; Vitascope, T. Armat; Wagon body, W. H. Beetcher; Wagon brake, automatic, E. S. Chatfield; Wagon, car, H. B. Christy; Wagon jack, J. J. Adgate; Wagon running gear, J. Vaughan; Waistband, detachable, J. E. Leavitt; Washboard, J. H. Reimers; Washboard, J. T. Sargent; Washboard, H. H. Reimers; Washboard, F. Jones; Washboard, H. H. Reimers; Water closet, D. S. Wallace; Watering device, stock, R. G. Fay; Weaver, calf, G. Cooley; Weatherstrip, J. L. Smith; Weighing machine, star wheel, H. Richardson; Wheel, See Fifth wheel, Vehicle wheel; Wheel rim, W. A. Johnson; Wick lifting device, C. Maschmeyer; Winding and slitting machine, C. Koegel; Windmill, Curtis & Peterson; Window cleaner's safety device, J. F. Grider; Window frame, Arnold & Lichtenberger; Wire fastener, W. G. Hay; Wire knitting machine, E. Wohlgenuth; Wire stretching and tying device, T. W. Kirby; Wood grinding apparatus, E. F. Millard (reissue); Wringer, See Mop wringer;

DESIGNS.

Table listing designs with patent numbers, including: Bedsteads, solid spindle for, W. Hess; Belt washer, F. K. Wagner; Box, C. A. Morningstar; Bracket, E. Bersbach; Carpet, W. L. Jacobs; Carpet button, stair, B. Walker; Carpet button, stair, H. Warren; Clasp, W. A. Johnston; Crumb scraper, L. Wojcikow; Crumb tray, L. Wojcikow; Eyeglass lens, P. C. Claffin; Frying pan cover, C. Eagle; Furniture, ornamental, H. G. Galt; Glass, plate, W. Lender; Lock case, W. H. Taylor; Match safe, N. Altmyer; Photograph frame, G. Bettini; Picture frame moulding, etc., C. Bosworth; Puzzle, E. H. Hansen; Rug, A. Petzold; Safe, sleeping car, I. Freed; Spoons, etc., handle for, A. Miller; Tampon carrier, etc., U. Harder; Tie, roof, C. Keiser; Truck bolster, car, E. F. Gaitra;

TRADE MARKS.

Table listing trade marks with patent numbers, including: Beer, Acme Brewing Company; Bicycles, Schering, Daly & Gales; Boring tools, wood and steel, H. H. Mayhew Company; Candy, J. A. McClurg & Sons; Confections, Popala Company; Cotton goods, mixed fabrics, twilled, etc., Comany; Cotton goods, especially sheetings and drillings, Tata & Company; Fruits, such as oranges, lemons, and grape fruit, citrus, W. B. Wall; Game apparatus, Parker Brothers; Gm and other spirituous liquors, National Distilling Company; Goring, Chadbourne & Moore; Locks, latches, and keys, Yale & Towne Manufacturing Company; Lye, W. H. Priesner; Medicine for the eyes, L. Varesie; Metal, anti-friction, R. B. Wilson; Mouth wash and tooth powder, H. Ievers; Mowers and trimmers, lawn, Pastime Lawn Mower Company; Needles, H. H. Priesner; Oats, rolled, American Cereal Company; Optic glasses and instruments, A. Levy; Packing, gaskets, and rubber compound, Peerless Rubber Manufacturing Company; Papers, writing, Mittlemeier Paper Company; Pens, W. Kempshall; Remedies, hand and scalp, L. P. Elliott; Rubber or elastic heels for boots and shoes, D. A. McDonald; Sheetings, drills, and ducks, Stark Mills; Shoes, C. Kallman; Soda and silicate of soda used in connection with compounds for scalding raw wool, caustic, Joseph Crestfield & Sons; Toilet articles and preparations, Lazell, Bailey & Company; Tonics and remedies for alcoholism and other nervous diseases, G. L. Wood et al.; Whisky, John O'Brien's Sons & Company; Whisky, E. Walters; Wine, port, S. Streit & Company;

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