

Business and Personal.

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Marine Iron Works. Chicago. Catalogue free. U. S. Metal Polish. Indianapolis. Samples free. Gasoline Brazing Forge. Turner Brass Works. Chicago.

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 This is for our information and not for publication.

(7611) A. W. S. asks: Which is the best or most economical for a toy motor—four cells of gravity battery or two cells of Sampson battery, now used for electric bells?

(7612) W. T. H. asks: Why is it that heavy thunder and lightning strokes are so common in the Western States in winter, even during snow storms, when such are never known in the South Atlantic States, except perhaps during one of those electrical storms that occasionally traverse the continent?

(7613) M. W. asks: How much CO2 gas is required to saturate 31 gallons of water at 2° C. and atmospheric pressure, and 31 gallons of water at 2° C. and 6 pounds extra pressure, and 31 gallons of water at 9° C. and 7.5 pounds extra pressure?

(7614) M. W. asks: How much CO2 gas is required to saturate 31 gallons of water at 2° C. and atmospheric pressure, and 31 gallons of water at 2° C. and 6 pounds extra pressure, and 31 gallons of water at 9° C. and 7.5 pounds extra pressure?

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

MARCH 7, 1899,

AND EACH BEARING THAT DATE.

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

Table listing inventions with patent numbers and names. Includes: Advertising apparatus, L. W. Yaggy; Air compressor, H. E. Anderson; Air supplying apparatus, F. A. Baynes; Alarm, See Overflow alarm; Amido malonic ester and making same, R. Blank; Amido malonic esters, obtaining indoxyl compounds of, R. Blank; Animal trap, T. H. Doulton; Annunciator, S. B. Fowler; Atomizer, J. A. Everett; Axle box, roller, A. Robinson, Jr.; Back pedaling brake, H. L. Bailey; Bait box, A. B. Russ; Battery, See Electric battery; Storage battery; Bed, invalid, J. Powley; Bedstead fastening, Reigart & Boll; Beehive outer case, J. N. Taylor; Bell door knob, Kinnaman & Flowers (reissue); Belt fastener, R. Fraser; Bicycle dress guard, G. T. Heineke; Bicycle driving gear, N. K. Peoples; Bicycle frame joint, Belcher & Eason; Bicycle handle bar, adjustable, M. H. Vanevera; Bicycle holder, C. Mee, Sr.; Bicycle lock, M. F. Cunningham; Bicycle rack, H. L. Wilcox; Bicycle saddle, W. S. Upton; Bicycles, convertible breast and back rest for, J. Wood; Bog cutter, A. Anderson; Boiler, See Steam boiler; Boiler, K. Park; Boiler flue cleaner, J. C. Ogletree; Boiler flue cleaner, D. Raso; Bolt, See King bolt; Book back lettering machine, A. Von Auw; Boring machine, Rockwell & Gerlach; Bottle or jar stopper, F. McCarty; Bottles, protecting cover for, W. A. Mauran; Box, See Bait box; Folding box; Meter box; Bracket, See Gird bracket; Brake, See Back pedaling brake; Vehicle brake; Brake mechanism, H. Tesseyman; Bran duster, J. Warrington; Brick press, S. Taylor; Building partition, E. Ketchum; Burner, See Hydrocarbon burner; Oil burner; Vapor burner; Bushing and stopper, faucet, R. Piotrowski; Butt adjuster, D. Sincoc; Cabinet, manuscript, A. A. Hoskin; Cables, splice for, wire, P. T. Christensen; Can heating machine, R. D. Hume; Cans, double rim for paint, M. F. Hartnett; Cap, C. J. Holzhenthaler; Car coupling and train pipe coupling mechanism, combined air operated, J. S. Bubb; Car fender, G. W. Downing; Car fender, J. B. Sims; Car, railway, W. F. Richards; Car step, S. Oliver; Carbureter, W. S. Filley; Carbureter, J. Henderson; Carbureter, C. N. Lippitt; Carpet fastener, G. R. H. Moore; Carrier, C. J. Chadwick; Chuck, drill, H. M. Reynolds; Cleaner, See Boiler flue cleaner; Pen cleaner; Climber, C. H. Cole; Clipper, hair, A. M. Sims; Clock, electric, B. Sims; Combing machine for textile materials, E. Delette; Cooking utensil, J. A. Dion; Corn compressor or binder, H. A. Horton; Coupling, See Hose coupling; Shaft coupling; Crate, knockdown, G. T. McLaughlin; Cream separator, centrifugal, D. T. Sharples; Elevator shovel, J. T. Smith; Cultivator spring trip, J. P. Moore; Curtain hanging apparatus, P. G. Goldsmith; Cutter, See Box cutter; Cutter setting gage, S. S. Farney; Cycle driving wheel, W. H. Chapman; Cycle frame, J. MacKenzie; Cycle, water, J. J. McClimont; Derrick, crane, O. Crosby; Desk, school, Field & Price; Dish washer and drier, R. E. Swartz; Disk meter, H. & P. Meinecke; Display forms, hand for, H. Lyons; Displaying form, goods, L. H. Balwick; Door check, automatic, H. H. Fasset; Door, screen or storm, C. R. Moore; Dredging machine, J. J. Batman; Drier, See Fruit drier; Drill, See Rock drill; Dye, black trisazo, Elbel & Oppermann; Dyeing, B. Fries; Dyeing textile fabrics, machine for, J. W. Fries; Elastic band, L. Nissim; Electric battery, thermochemical, M. L. Severy; Electric circuits, means for impressing semi-cycles of electromotive force on, Crebore & Squier; Electric heater, A. J. Moore; Electric switch, Bernardini & Ely; Electrical conductor connector, P. Minich; Electrical regulator, W. H. K. King

(Continued on page 174)

Advertisements.

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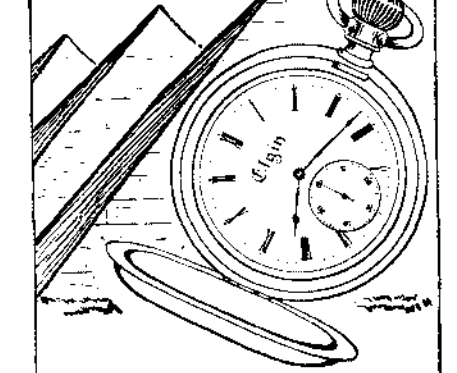
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