

Business and Personal.

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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 This is for our information and not for publication.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.

A. We suppose the reason that no attempt to describe the color screens used in color photography is that we have no words which can be used for the purpose. You can probably buy the screens which have been matched against screens known to have proper tints, from photographic dealers. If you wish to experiment in this line, you can obtain the aniline dyes from dealers in chemical materials.

(7750) J. H. S. asks: Is there a dry battery on the market that will light a 16 candle power electric light for an evening. A. We do not know any battery which can economically light a 16 candle power lamp, except the storage battery.

(7751) C. T. H. asks: Is it possible to manufacture a machine that will register one-twenty-five thousandth of an inch? A. Yes. If a screw were cut with 100 threads to the inch, and provided with a large head divided into 250 parts, when the head should be turned through one of these parts the point of the screw would be moved one twenty-five thousandth of an inch.

(7752) F. L. asks: What is the reason for using platinum wires in the base of electric light bulbs to connect with the filament? Could copper or aluminum be used in place of platinum, the cost being less? If not, why? A. Platinum wire is used in the base of incandescent lamps because it is the only metal which expands and contracts with heat at the same rate as the glass. If any other metal were used it would soon break the glass, because it would expand differently from the glass and ruin the lamp.

(7753) J. T. S. writes: Does the mica front in the ordinary base burning coal stove add anything to its value as a heater? I claim that it does not; that the stove would be probably a better heater if the mica were replaced by ordinary sheet iron. A. The mica as truly as the iron absorbs heat to radiate it again at its own temperature. Mica is used for the purpose of showing the condition of the fire and to give some light in a dark room.

TO INVENTORS.

An experience of fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending OCTOBER 24, 1899. AND EACH BEARING THAT DATE.

Table listing inventions with dates and page numbers. Includes items like 'Abrasive purposes, tool for', 'Accumulator pole pieces', 'Acid proof bag for fertilizers', etc.

Advertisements.

ORDINARY RATES. Inside Page, each insertion, - 75 cents a line Back Page, each insertion, - \$1.00 a line For some classes of Advertisements, Special and Higher rates are required. The above are charges per agate line—about eight words per line. This notice shows the width of the line, and is set in agate type. Engravings may be had at advertisements at the same rate per agate line, by measurement, as the letter press. Advertisements must be received at Publication Office as early as Thursday morning to appear in the following week's issue.

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Table listing various mechanical and electrical items with prices. Includes items like 'Cals and signals, system of', 'Camera, kinetographic', 'Car, See Valved car', 'Car coupling, S. J. Meeker', 'Car, dumping, M. F. Blake', 'Car fender, W. Morck', 'Car frame, F. E. Canda', 'Car heat block railway, J. A. Hines', 'Car signaling device railway, H. S. Reders', 'Car trailers, brake for street, H. T. Brown', 'Carbide cartridge, L. S. Buffington', 'Carburetor, F. E. Canda', 'Carding engine, Andrews & Haley', 'Carriage, child's, G. Ballantine', 'Carriage motor, W. C. Schultze', 'Cart, F. C. Weber', 'Case, See File case, Match case', 'Caster, ball, J. Guinan', 'Centrifugal separator liner, J. D. G. Oshaver', 'Chair, See Adjustable chair, Convertible chair', 'Chair, D. J. Bigelow', 'Channeling machine, Keats & Clark', 'Checking or unchecking device, K. J. Wylie', 'Chopper, See Cotton chopper', 'Chuck, drill, J. W. Albert', 'Circuit controller device, J. Heuze, Jr.', 'Cleaner, See Blue cleaner, Window cleaner', 'Clothes drier, B. Kippels', 'Clothes line pulley, S. H. M. Seib', 'Clutch, friction, G. J. Gunderson', 'Clutch, friction, A. Herschmann', 'Combination nut, R. H. Heuts', 'Commerciograph, B. R. Herman', 'Compass, miner's, W. Van Sleeten', 'Convertible chair, E. L. Thompson', 'Corn husker, W. H. Stoner', 'Cotton chopper and sizer, J. M. Pope', 'Coupling, See Air brake hose coupling, Car coupling, Pipe coupling, Pole or thill coupling, Vehicle coupling', 'Cream separators, liner for centrifugal, E. J. Kneeland', 'Cue support, J. Miller', 'Cultivator, S. M. Adams', 'Cultivator attachment, G. W. Tucker', 'Cultivator, garden, J. T. Clark', 'Cultivator planter attachment, T. Collier', 'Cultivator two row disk, J. A. Patterson', 'Cultivator wheel, cotton, W. W. Holloway', 'Curtain ring, S. O. Brown', 'Cutter, See Ensilage cutter, Reel cutter', 'Cycle brake and meter, B. H. & N. R. Coursey', 'Cycle mud guard, A. Thym', 'Desk attachment, D. L. B. Peterson', 'Display rack, C. W. Kirkland et al.', 'Door, Nash, H. L. C. Hyde', 'Door bell, W. Sawtelle', 'Door fastener, C. E. Duck', 'Door fastening device, W. Doyle, Jr.', 'Door hanger, G. Wideman', 'Door holdback, A. J. Ware', 'Door spring and check, combined, J. Wolf', 'Draught equalizer, S. H. Tinsman', 'Drier, See Clothes drier', 'Drill, See Rock drill', 'Drill, H. Aylmer', 'Easel bracket, L. Hayre', 'Eaves trough hanger, G. W. Hartley', 'Eaves trough hanger, E. E. Taft', 'Electric cutout, J. Sachs', 'Electric machine, dynamo, N. J. Lascher', 'Electric motor reversing switch, E. V. Matlack', 'Electric switch, Downes & Sherman', 'Electric switch, C. J. Klein', 'Electric switch, J. Sachs', 'Electrical conductor junction box, R. L. L. Hundhausen', 'Electrical machine, J. H. Hague', 'Electricity from car wheel axles, means for generating, M. Makewitz', 'Elevating apparatus, E. E. Goodrich', 'Elevator, See Grain elevator', 'Elevator, R. J. Melius', 'Elevator, H. R. Tracy', 'Elevator, M. A. Wheaton', 'Elevator speed regulating or controlling device, E. P. Forbes', 'Elevators, automatic safety lock for, C. S. Stokes', 'Engine, See Carding engine, Gas engine, Paper pulp refining engine, Rotary steam engine', 'Engine, electric generator for gas, R. E. Olds', 'Ensilage cutter, O. E. Bray', 'Escapement, H. Gantey', 'Exhibitor, jewelry, C. H. Buxton', 'Extension platform, Seymour & Kahler', 'Eyeglass nose guard, C. Billington', 'Eyeglasses, E. Peague', 'Eyeglasses and spectacles, D. H. Ludlow', 'Fare registers, mechanism for operating, Ohmer & Tyler', 'Farm gate, W. B. Miller', 'Fence machine, G. P. A. Weisenborn', 'Fence machine, wire, A. H. Cook', 'Fifth wheel, J. L. Taylor', 'File, binding, A. Dom', 'File case, L. Klemme, Jr.', 'File, paper, C. E. Mountford', 'Finger ring, G. M. Saunders', 'Firearm safety device, revolvers, Wesson & Hobbs', 'Fire escape, F. J. Glaser', 'Fire escape, E. B. Terce', 'Fire extinguisher, G. G. Schroeder', 'Fire port hole for buildings, J. J. Schlosser', 'Fish hook, fish line, C. F. Riddle', 'Flat iron, self heating, J. Abrahamson', 'Flue cleaner, L. Rollins', 'Flush switch, W. R. Pettis', 'Fly trap, A. Hammond', 'Folding box, L. F. Ferrell', 'Folding box, L. C. F. Hyde', 'Frame, See Prism light frame', 'Fruit drying tray, S. H. Chase', 'Fruit gatherer, P. M. Gutleber', 'Furnace, See Assaying furnace, Smelting furnace', 'Furnace, J. Elpherty', 'Furnace, E. C. Heavey', 'Gage, See Pressure gage', 'Garment, J. Shine', 'Garment supporter, W. L. Brad dock', 'Gas burner, acetylene, F. C. Faxon', 'Gas engine, J. J. P. Dottle', 'Gas generating apparatus, acetylene, C. D. Howell', 'Gas generator, acetylene, G. A. Hervieu', 'Gas generator, acetylene, Kuppers & Schroeder', 'Gas generator, acetylene, F. C. Pearre', 'Gas generator, acetylene, F. R. Ridd', 'Gas generator, acetylene, G. Russell', 'Gas or vapor generator and burner, J. W. Weeks', 'Gas producer, W. Garrett', 'Gate, See Bridge gate, Farm gate, Tank discharge gate', 'Gearing, variable speed, G. Sittmann', 'Generator, See Gas generator, Gas or vapor generator', 'Glass blowing machine, M. J. Owens', 'Glass blowing machine, C. H. W. Ruben', 'Glass conduits, collapsible core for manufacturing, T. M. Flower', 'Glass rolling machine, T. J. McCoy', 'Glove fastener, G. T. Chapman', 'Grain elevator, G. B. Mallory', 'Grain roller, E. Berg', 'Grain scourer, H. Heinrich', 'Grate, R. J. Schwab', 'Grinder, mill, plane, C. E. Bloeschmidt', 'Grinding mill train, roller, D. M. Carey', 'Gun brake device, E. Muller', 'Gun fluid brake, J. Krone', 'Gun, spring spear, W. H. McWhirter', 'Hammer, pneumatic, Burns & Pickles', 'Handle bar, adjustable, Kile & Burns', 'Hanger, See Door hanger, Eaves trough hanger, Lamp hanger', 'Hat smoothing iron, J. Agar', 'Hay press, C. G. Combest', 'Hay rake, horse, C. F. Jackson', 'Hauling machine for in valleys, W. A. Nibon', 'Headlight, acetylene gas, C. H. Paret', 'Hinge, S. D. Arnold', 'Hinge, box coach, J. T. Seng', 'Hog catcher, J. B. Herr', 'Hoisting device, C. Berghoefer', 'Hook, See Fish hook, Ladder hook', 'Hose, See Air hose, Hose coupling', 'Hose supporter, overhead, C. Utman', 'Hub, vehicle, E. McHugh', 'Inkstand attachment, A. B. Flagg', 'Iron, W. Lawes', 'Iron, See Flat iron, Hat smoothing iron', 'Iron axids, obtaining, A. S. Ramage', 'Jack, See Wagon jack', 'Jar opening device, Colkitt & Pentz', 'Jaws for jaw rods or jaw bolts, manufacture of, G. G. Barrett', 'Joint, See Pipe joint', 'Kiln for burning fire brick, etc., L. O. Boeing', 'Kiln having superposed chambers for continuous working, P. Schleich', 'Kiln having superposed chambers for continuous working, P. Schleich'.

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