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(7167) C. F. H. K. says: Will you please let me know what kind of acid will change the color of blue print photography paper to a dark brown?

When cool acid sulphuric acid in small quantities until blue litmus paper turns slightly red, then add a few drops of ammonia until the alkaline reaction appears and red litmus paper turns blue.

ELECTRIC POWER TRANSMISSION. A Practical Treatise for Practical Men. By Louis Bell. New York: The W. J. Johnston Company. 1897. Pp. 491. Price \$2.50.

The familiar power house of the Niagara Falls generating plant gives the subject for the frontispiece of this exhaustive book. It really seems as if an adequate treatment was at last given to an all-important subject.

SEWER FLUSHING DIAGRAMS. Showing how far the Discharge from a Flush Tank will give a Self-Cleansing Velocity. S. H. Adams. New York: Spon & Chamberlain, 12 Cortlandt Street. London: E. & F. N. Spon, 125 Strand. Price \$5.

REISSMANN'S RAFTER AND POLYGON GAGE. Copyright 1897. Price 30 cents.

The Bridgeport Wood Finishing Company have recently issued, more especially for the use of architects, a specimen book containing samples of different woods finished with the Wheeler wood filler and the Breinig stains.

eight specimens of oak, mahogany, cherry, cypress, maple, whitewood, sycamore, curly birch, pine, ash, etc., mounted on heavy cardboard, their finely finished surfaces protected by layers of soft cotton, and all showing the great beauty which can be developed in clearly bringing out the natural grain of a wood and finishing it with a high polish, which the materials furnished by this company render entirely practicable.

The 1897 catalogue of the Keuffel & Esser Company, of New York, has considerable new matter, and its entire text and illustrations are well worth the attention of artists, draughtsmen, surveyors, architects and engineers.

TO INVENTORS. An experience of nearly 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.

INDEX OF INVENTIONS For which Letters Patent of the United States were Granted JUNE 15, 1897. AND EACH BEARING THAT DATE.

Table listing inventions and their patent numbers. Includes items like 'Acid, making lactic, P. Roosen', 'Air brake hose coupling, J. Redfern', 'Alarm, fire, H. Rain', 'Armature for dynamo electric machines, H. H. Wait', 'Armor plates, apparatus for treating, W. E. Corey', 'Axle box, vehicle, Felumee & Pink', 'Bag, S. H. Marston', 'Ball and handle for vessels, combined, P. S. Witcher', 'Band cutter and feeder, I. D. Parmley', 'Banjo harp attachment, A. A. Farland', 'Basket, fruit, R. S. Williams', 'Battery plate and producing same, secondary, W. P. Patton', 'Bed or couch, interconvertible, E. R. Leighton', 'Bed, studio folding, M. McCoy', 'Bedclothes clamp, H. S. Calkin', 'Bell, bicycle, N. T. Mills', 'Belt, concentrator, G. Gates', 'Belts, adjustment for concentrator, G. Gates', 'Bench, See Wash bench', 'Benzyl morphine, J. F. F. Von Mering', 'Bicycle, M. A. Harris', 'Bicycle brake, H. S. Calkin', 'Bicycle brake, W. H. Hart', 'Bicycle changeable gear, T. S. Drummond', 'Bicycle frame, E. Baum et al.', 'Bicycle pannier, E. C. Bartlett', 'Bicycle pedal, F. H. Bolte et al.', 'Bicycle support, H. L. Davis', 'Bicycle support, W. C. Kelly', 'Bicycle support, adjustable, M. Goodman', 'Binder, S. M. Simons', 'Bird cage bracket, A. Merget', 'Bit, See Ironing board', 'Block, See Meat block', 'Board, See Ironing board. Plaster board', 'Bobbin, H. A. Mack', 'Boiler, See Pipe boiler. Steam boiler', 'Boiler water regulator, U. S. Archer', 'Bolt, See Sliding bolt', 'Bolt cutter, C. W. Harris', 'Bookbinder, S. G. Brown', 'Boot or shoe numbering machine, S. Snow', 'Boot or shoe setting up or marking machine, E. F. Mower', 'Bottle, J. Malepierre', 'Bottle, G. C. Phillip', 'Bottle, J. E. Welsh', 'Bottle, non-refillable, J. Boston', 'Bouquet holder, H. S. Schnell', 'Box, See Feed box', 'Box, E. & V. P. Adams', 'Boxes, jars, canisters, etc., closing of, J. M. Arnot', 'Brace, See Skaters ankle brace', 'Bracket, See Bird cage bracket', 'Brake, See Bicycle brake. Emergency brake', 'Brake, See Mechanical', 'Bride, J. H. Semmes', 'Bride bit, J. T. Fogt', 'Broom corn sizing machine, Gaffney & Fischer', 'Burner, See Gas burner. Vapor burner', 'Butter mould, W. D. Marshall', 'Calendar or almanac, S. Weghorn', 'Can, See Oil can', 'Car, box, A. W. Stebbins', 'Car brake equalizing levers, hanger for, W. H. Durant', 'Car coupling, P. Hien', 'Car coupling, D. C. Miller', 'Car coupling, L. Pfanz', 'Car coupling, C. W. Richey', 'Car coupling, J. A. Rightmire', 'Car coupling, I. N. Robertson', 'Car fender, T. W. Fitzgerald', 'Car fender, W. R. Johns', 'Car fender, A. Mazzanovich', 'Car fender and stop, I. Benjamins', 'Car, hand, W. N. Rousey', 'Car, metallic, C. T. Schoen', 'Car side bearing, railway, J. C. Wands (reissue)', 'Car signal, W. J. Gubitz', 'Car step, extension, I. N. Davis', 'Car ventilation, W. Curlett', 'Card holder, T. Shea', 'Carpet fastener, stair, C. G. Triesler', 'Carrier, See Parcel carrier', 'Case, See Snow case', 'Cash drawer mechanism, A. K. Suddoth', 'Cash registering and indicating machine, C. H. Little', 'Caster, H. Goldsmith', 'Caster, furniture, F. B. Lentz', 'Casting apparatus, metal, J. B. Laughlin', 'Cement, manufacture of, M. W. L. Nahnsen', 'Chair, See Combination chair', 'Chair and boot black stand, R. Choinaux', 'Check and waste box or protector, W. P. Goller', 'Check protector, C. E. Ongley', 'Churn, M. W. Hutchinson', 'Cigar package, H. C. Mahrt', 'Cigarette machine, J. D. Tejada', 'Circuit protecting sander, A. L. Creelman', 'Cistern cleaner, H. G. Jaren', 'Clamp, See Bedclothes clamp', 'Clamp, See Cistern cleaner', 'Clamp, See Mechanical', 'Closet, See Sanitary closet', 'Cloth cutter, Morse & Randall', 'Clothes line reel, H. O. Amundson', 'Clutch, safety, J. Richards

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Table listing various mechanical devices and their prices. Includes items like 'Combination chair, G. C. Starcher', 'Composing machines, machine for making controllers for, F. A. Johnson', 'Composing machines, making controllers for, F. A. Johnson', 'Computing machine, H. W. Byron', 'Conduit, flexible, A. L. Tucker', 'Copies of printed or written matter, method of and means for obtaining, W. M. Williams', 'Corner plaster strip, J. S. Merritt', 'Coupling, See Air brake hose coupling. Car coupling. Hoop coupling. Shaft or pole coupling', 'Crate, folding egg, H. C. Dean', 'Curette, E. D. Saint Cyr, Jr.', 'Curler, hair, C. Juller', 'Current motor, W. P. Francis', 'Curtain rod, extension, F. H. Lovelace', 'Cutter, See Band cutter. Bolt cutter. Cloth cutter. Rotary cutter', 'Cycle fitting, Beecher & Cornforth', 'Decorating machine, W. Butler', 'Denture, artificial, A. L. & B. F. Gilmer', 'Designing and engraving, S. Eaton', 'Desk and seat, school, J. Worthington', 'Diaper protector, C. R. Warren', 'Distribution system, E. W. Rice, Jr.', 'Door lock, R. D. York', 'Door opener, J. Headlam', 'Door or gate check, R. B. Vaughn', 'Door sealer, G. A. Doyle', 'Dress stiffener, G. A. Dodge', 'Drill dressing and sharpening machine, rock, W. Wanless', 'Duplicating apparatus, automatic, G. H. Davis', 'Dust collector tube cleaning device, L. E. Sheets', 'Electric circuit protector, A. L. Creelman', 'Electric motor controlling apparatus, B. A. Fiske', 'Electric signal, A. L. Creelman', 'Electric sparks for signals or theatrical effects, production of, V. Taberlitch', 'Electromagnet, C. E. Scribner', 'Emergency brake, G. M. McLaughlin', 'End gate, P. O. Gorman', 'Engine, See Gas engine. Pumping engine. Rotary steam engine. Steam engine', 'Engine, See Air pressure indicator device for steam, W. Uhlmeier', 'Engine indicator, J. J. Waldner', 'Engines off dead centers, apparatus for throwing, Rauch & Kennedy', 'Engraving and ornamenting machine, W. S. Eaton', 'Extension table, E. Bauman, Jr.', 'Eyelet, F. F. Hawkins', 'Fan, rotary, C. E. Rowe', 'Fastener, W. B. H. Dowse', 'Fastener for garments, suspenders, etc., W. S. Faucet, M. A. Martin', 'Feed box, R. S. Franz', 'Fence, wire, R. H. Bloomer', 'Fences, device for attaching stay wires to, F. Foster', 'Fender, See G. Bauman', 'Filter and cleaner, Tonner & Lindsay', 'Finger cap or protector, E. M. Sylls', 'Firearm, recoil operated, G. V. Fosberry', 'Firearm, recoil operated, P. Mauser', 'Firearm sight, T. J. Dolan', 'Fire escape, H. C. Griffin', 'Fire escape, F. Landenberger', 'Fire escape, D. Rich', 'Fishing tackle float, E. E. Wilson', 'Floor and ceiling plate, E. P. Waggoner', 'Flower pot, M. A. Walker', 'Fluid pressure and hydraulic motor, S. B. Battery', 'Fluid pressure regulator, S. H. Kellogg', 'Fuel compressor, T. M. Cochrane', 'Furnace, See Garbage furnace', 'Furnace both plates, manifold water supply for blast, H. G. Bauman', 'Furnace feeding device, Roney & Churchill', 'Furniture, J. B. Albietz', 'Garbage furnace, R. L. Walker', 'Gas apparatus, H. A. Jones', 'Gas burner, V. H. Slinack', 'Gas, carburetted, J. B. Griffin', 'Gas engine, J. O. Brown', 'Gas engine, E. B. Dake', 'Gas engine, Wright & Stephens', 'Gas machine, H. C. Sergeant', 'Gas manufacturing apparatus, J. L. Stewart', 'Gas manufacturing apparatus, acetylene, J. H. Exley', 'Gas producing apparatus, M. Loriois', 'Gas saving check, A. Kuhne', 'Gate, See End gate', 'Gate, See Carburettor', 'Gear for variable speed driven mechanism, changeable, F. H. Lefroy', 'Generator, See Steam generator', 'Glass blowing machine, H. J. Colburn', 'Glassware, machine for manufacturing, C. E. Bauman', 'Gold from auriferous material, apparatus for extracting, J. J. Deeble', 'Governor, pneumatic, Pain & Tremaine', 'Governor, steam engine, E. C. Knapp', 'Grading and ditching machine, M. G. Bunnell', 'Grading and leveling dust from pulverized ore, etc., apparatus for, Fape & Henneberg', 'Grand stand, pavilion, etc., Kaufman & Gronau', 'Hammer, brick mason's, H. C. Stallings', 'Harrow, D. Manuel', 'Harrow tooth fastener, D. W. Hoehall', 'Harvester traction wheel, G. M. Kilgus', 'Harvesting machine, beet, L. Frennet-Wauthier', 'Hat pin retainer, M. J. Guthrie', 'Hay press, R. A. Simpson', 'Headlight, electric, F. W. Dressel', 'Hearse, M. Koppe', 'Heating apparatus, H. H. Sawyer', 'Heating apparatus, water, W. C. Clarke', 'Heel attaching machine, F. F. Raymond, 2d', 'Heel nailing machine, C. C. Small', 'Hinge, box, W. Wilson', 'Hoe or cultivator, grape, A. G. Johnson', 'Hoe, shufle, L. B. Farrells', 'Hoop trap, A. Auchly', 'Hoist, H. L. Ferris', 'Hoisting machinery, A. J. Shaw', 'Honing machine, T. F. Curley', 'Hook coupling, metal, O'Melveny & Vail', 'Hoop, splitting and shaving machine, J. S. Griffith', 'Horse blanket, W. G. Ayres', 'Horseshoe, detachable, E. F. 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Scribner', 'Lamp socket, E. M. Bradford', 'Lamp supporting, cycle, J. H. White', 'Lamps, increasing illuminating power of electric', 'Lasting machine, S. W. Ladd', 'Lasting machine, Ladd & McFeely', 'Lasting machine, A. F. Preston', 'Leaf turner, F. W. Hand', 'Leather rolling machine, J. M. Brownell', 'Letter box attachment, E. P. Chaney', 'Lifter, See Store goods lifter', 'Lightning arrester and multiple automatic fuse block, G. X. Gast', 'Linotype machine, F. A. Johnson', 'Lock, See Door lock. Seal lock. Seat lock', 'Lock, A. T. Green', 'Lock, J. W. T. Morris', 'Loom cloth guide, P. Sullivan', 'Loom doubling attachment, W. Crutcheon', 'Loom pattern mechanism, A. R. Fatten', 'Lubricating apparatus, A. Bler', 'Lubricator, See Saw lubricator', 'Lubricator, S. O. Jones

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