

(2333) G. R. L. asks for a receipt for a liquid stove polish that will dry quickly and leave a bright polish.

(2334) H. R. B. asks how to make the flexible pad composition that is sold for notes.

(2335) W. P. S. asks: What is the best cement for fastening leather to wood?

(2336) A. G. E. asks how much hydrogen gas is liberated by one pound of sulphuric acid in water acting on iron.

(2337) E. E. R. asks: 1. Can you give me any receipt for perfume so it will mix intimately with melted paraffine and the perfume be lasting when the paraffine is cold and cut into tablets?

(2338) R. McK. asks: 1. What is the best thing for the removal of freckles?

(2339) T. C. B. writes: I have a pound or so of protosulphate of iron which has been exposed to the air for some time, and which has become incrustated with a white powder.

(2340) D. J. R. asks for a good receipt for a black walnut stain.

(2341) P. W. asks how to make a substance which when burnt will give forth a strong but pleasant odor or perfume, and if burnt in a room will perfume the room for two or three hours.

(2342) E. D. writes: In your issue of May 17, 1890, in answer to question 2179 (J. L. S.), you give a formula for removal of soot stains from granite.

(2344) Philwood writes: 1. I noticed in an old SCIENTIFIC AMERICAN that a windmill would not do to run a dynamo, on account of its fluctuating motion.

(2345) D. B. asks if honey bees make honey from flowers, or if they make only what is called bee bread from flowers.

(2346) I. S. asks: 1. What is the cause and cure, in the case of young persons in apparent perfect health, sound teeth, of temperate, abstemious, industrious habits, addicted to no abuse, exhaling a disagreeable breath?

tive sources, of the "carp"—praise and utter condemnation. What is the fact? A. The quality varies with the circumstances of its cultivation and environment.

(2347) T. E. M. asks: 1. About how many volts would it take to kill a rat? A. The voltage required to kill a rat might for the alternating current be put at 200 or 300 volts.

(2348) W. J. M. asks: How can I cut off the head and neck of a large glass bottle such as chemicals are put in, without too much expense?

(2349) C. E. E. asks how to transfer a woodcut picture from the paper to the glass of a lantern slide without the aid of sensitized plates.

(2350) A. A. D. writes: I would like to have a receipt for a glossy black ink, one that would be suitable for writing on labels which are exposed to sunlight.

(2351) W. A. A. asks if anything can be added to silicate of soda (water glass) to render it practically insoluble after it has once become set.

(2352) T. D. G. asks: 1. What is the remedy for perspiration of a disagreeable odor? I understand it is caused by the presence of some peculiar acid in the blood or circulatory system.

(2353) X. X. asks for any cheap and practical method of keeping milk, butter, etc., cool without ice, either by evaporation or otherwise.

(2354) H. W. E. D. asks: What is the name of the skin you find inclosed, and where it can be purchased.

(2355) R. A. asks what shape a base ball curver is, and what it is made of.

PATENTS!

MESSRS. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN, continue to examine improvements, and to act as Solicitors of Patents for Inventors.

TO INVENTORS. An experience of forty 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

July 8, 1890.

AND EACH BEARING THAT DATE.

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

Table listing inventions and their patent numbers, including items like Air brake, automatic, G. B. Williams; Alarm, See Boiler alarm; Aluminum, making, C. Netto; Animal trap, C. W. Smith; Axle box, car, R. Brewer; Axle lubricator, car, H. M. Goodman; Bag and twine holder, C. A. Marshall; Bag holder, Chase & Seaton; Baling press, C. Wouff; Ballot, L. C. Lindeman; Barber's chair, Knecht & Schlesinger; Barrels, etc., closure for, L. L. Frierson; Barrel hoop, J. F. Rich; Basket, feed, J. H. Williams; Batteries, forming porous pots for voltaic, C. R. Goodwin; Battery, See Galvanic battery; Bearing, propeller shaft, W. Z. Gaffield; Bed, folding, H. S. Hale; Bed folding, C. J. Sundback; Bed warmer, J. Kinney; Bedbug trap, Linder & Carlson; Bedstead, metallic cot, G. M. Lortz; Bell mechanism, door, A. F. Rockwell; Bicycle, N. N. Horton; Bicycle saddle, A. L. Garford; Bicycle stand, H. J. Curtis; Bit, See Bridge bit; Blasting, J. A. Kurtz; Block, See Ceiling block; Blower and exhauster for air or other gases, C. Fiesse; Body ventilator, J. E. Butts; Boiler, J. E. Leighton; Boiler alarm, D. Focer; Bookcase and desk, knockdown, L. S. Hayes; Book cover, G. Cornwall; Boot or shoe, L. M. Nute; Boots or shoes, composition for the soles of, W. A. Burrows; Bottle stopper, O. Eick; Box, See Axle box; Box nailing machine, J. Casey; Brace, See Surgical brace; Brace for excavations, W. J. Dunn; Bracket, See Locomotive lamp bracket; Brake, See Air brake; Vehicle brake; Brake beams, machine for forming metallic, R. W. Bayley; Bread pan, G. P. Mitchell; Breast strap, slide, and snap, combined, Johnson & Reichert; Bridge gate, J. P. Maloney; Bridge bit, W. R. M. Wheeler; Broiler or toaster, W. Brooks; Brush, G. A. Barnes; Brush fillings, tie plate for, S. K. Hawkins; Buckle, J. P. Harris; Buckle, suspender, G. B. Pilkington; Burner, See Gas burner; Cable roads, chain grip for, W. Heckert; Cable sheave, F. B. West; Can for kerosene or other inflammable fluids, T. Medford; Car, cable grip, B. F. Crow; Carbon structures, composition for porous, C. R. Goodwin; Car coupling, H. C. Buhoup; Car coupling, H. F. Davis; Car coupling, E. B. Goellet; Car coupling, H. Gallager; Car coupling, G. Highfield; Car coupling, H. D. Layman; Car coupling, C. Lenhart; Car coupling, S. H. Pierce; Car coupling, U. Snyder; Car coupling, C. W. Terpening; Car coupling and uncoupling device, McWhirter & Scheble; Car door, W. J. Walker; Car door cleat, freight, G. L. Webster; Car heater, street, H. W. Libbey; Car, railway, E. M. Bentley; Car table, railway, H. S. Haggard; Car wheel, C. G. West; Cars, air brake for railway, D. Dunn; Cars provided with intermediate trucks, means for facilitating the uncoupling of, W. H. Marshall; Carding engine, W. P. Canning; Carrier, See Pneumatic dispatch tube carrier; Carrying and power cable apparatus, L. H. Goodwin; Cart, road, C. Fahrney; Cartridge primer, gun, W. Lorenz; Case, See Book case; Packing and refrigerating case; Case for holding and exhibiting oil cloths, etc., E. E. Jandrey; Cash indicator, register, recorder, and calculator, E. T. Bates; Cash recorder, W. Koch; Casting traps, apparatus for, C. H. Muckenhirn; Ceiling block, electric, W. C. Bryant; Centering, F. Trabert; Chain, W. C. Edge; Chain, V. M. Moore; Chain, key, J. A. Traut;

Table listing inventions and their patent numbers, including items like Chair, See Barber's chair; Checkrein safety loop, J. O'Brien; Cigar rolling apron, F. C. Miller; Clasp, See Suspender clasp; Clipping machine, hair, Cook & Hinds; Cloak rack, F. Wolf; Clock, alarm, A. M. Lane; Closet, See Dry closet; Cloth cutting machine, W. S. Salisbury; Collar fastener, horse, P. T. Bradley; Collar, horse, A. Charles; Collar, horse, T. J. Thorp; Compound engine, S. M. Vaulain; Conduit, T. Wallace; Conveying service apparatus, J. C. Martin; Copy holder, C. E. Bruntbaver; Corn cutting and shocking machine, F. C. O'Harra; Corn hook, L. H. Sholder; Corpses, method of treating, J. H. Chambers; Coupling, See Car coupling; Pipe coupling; Cultivators, corn dropping attachment for, W. O. Dixon; Cultivator, riding, J. H. Jones; Cultivator, walking, J. H. Jones; Cup, See Grease cup; Cut-out, thermal, L. B. Favor; Damper, S. S. Richardson; Darning machine, A. Helwig; Dental articulator, J. W. Moffitt; Dental polishing pencil, K. C. Whaley; Die stocks, reamer attachment for, E. T. Mueller; Dish pan and drainer, wash, M. A. Gauze; Dock, portable, N. F. Rogers; Door check, J. W. Lairmore; Door check, A. E. Matheson; Door lock, Ping & Mendenhall; Door, sliding, C. D. Fey; Draught equalizer, Boynton & Brown; Drill blanks, machine for swaging, J. C. Taft; Drill, seeder, and cultivator, combined, J. W. Rogers; Drilling machine, Midgley & Harbaugh; Drum, beating, G. Ott; Dry closet, W. E. Stevens; Drying apparatus, collar and cuff, J. G. Dixon; Dust arrester, J. B. Martin; Dynamo, E. H. Johnson; Egg tester, F. H. Juergens; Electric accumulator plates, apparatus for preparing, C. F. Pollak; Electric cable subway, W. L. Parsley; Electric machine, magneto, A. E. Colgate; Electric machine regulator, dynamo, G. A. Polson; Electric motor apparatus, S. C. C. Currie; Electric wires, etc., metallic pole for, Schneider & Carson; Electrical conduit pipes, apparatus for cutting, S. P. Denison; Electrical conversion, apparatus for, E. N. Dickerson, Jr.; Electro-therapeutic appliance, A. W. Jackson; Elevator, See Store service apparatus elevator; Emery polishing wheels, finishing, F. Kohnle; Engine, See Air engine; Carding engine; Compound engine; Locomotive engine; Steam engine; Engine lubricator, steam, J. A. Mumford; Evaporating apparatus, T. Gaunt; Extract, obtaining meat, J. Van Ruybeke; Fabric, See Waterproof gossamer fabric; Woven fabric; Faucet fastener, G. W. Aldrich; Fence, L. S. Newman; Fence coping, J. T. Shimer; Fence machine, wire and picket, J. Kelley; Fence machines, tension device for, W. Peeper; Fence, picket, H. W. Volck; Fence, portable, R. North; Fence, wire, P. Spalding; Fences, device for building wire and picket, J. E. Remington; Fertilizer distributor, F. P. Morrison; Fire alarm, automatic, H. E. Jacobs; Fire escape, T. Ellison; Fire escape, D. A. Fraser; Fire escape ladder, F. E. Davis; Fire extinguisher, C. M. Martin; Fire extinguisher, automatic, E. Grinnell; Fire extinguishing compound, C. M. Martin; Flood gate, W. U. Robbins; Frame, See Window frame; Fruit picker, G. T. Ridlon; Furnace, M. E. Alley; Furnaces, device for supplying superheated steam to, M. E. Alley; Gauge, W. Littley; Galvanic battery, C. R. Goodwin; Game, P. Bosche; Game, F. W. Samuels; Game counter, M. Hofheimer; Garment supporting hook, C. A. Whitecher; Gas, apparatus for the manufacture of, W. T. Bate; Gas burner, W. W. Canfield; Gate, See Bridge gate; Floodgate; Mixing machine discharge gate; Gate, J. E. Bourne; Gate, J. S. Burgess; Gate, J. Gunder; Gate fastening, wire, J. M. Harnish; Gate for drawbridges, etc., C. R. Brothwell; Glass leer, A. Ferrari; Glassware, apparatus for the manufacture of, W. Buttler; Grain huller and scourer, J. Short; Grate, L. N. Emery; Grease cup, E. H. Benner; Guns, bolt stop with cartridge shell ejectors for breech-loading, P. Mauser; Guns, shell extractor for bolt, P. Mauser; Hair and wig, J. Y. Borden; Hair bang, A. L. Hobbs; Halter, G. J. Walbridge; Hame, C. E. Carr; Handle, See Tool handle; Hanger, See Trolley wire hanger; Harrow, spring tooth, C. La Dow; Harvester, corn, Gibbs & Booser; Harvester reel support, J. A. Graham; Hatchway gates, device for operating elevator, C. P. Stanford; Hay loader, Hunter & Lakin; Headlight, locomotive, W. J. Burke; Heater, See Car heater; Heating and filtering apparatus, Sutcliffe & Sullivan; Heating device, S. B. Jerome; Holdback, vehicle, B. E. Beers; Holder, See Bag holder; Bag and twine holder; Copy holder; Sash holder; Spool holder; Tag holder;