

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

C.I.F.—Your specimen of a Californian mineral is disintegrated mica schist, of no value.—J. P. L.—Your specimen is antimony.—I. P. D.—The quartz contains galena and iron pyrites.

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

- On a Freak of Lightning. By E. J. M.
On Capital and Labor. By B. E. G. J.
On the Phylloxera. By L. W. G.
On the Squirrel Question. By L. M. B.
On Curious Apples. By A. T. N.
On Terrestrial Gyration. By J. H.
On Power in Cotton Mills. By T. T. D.
On the Business Outlook. By J.

Also enclosures and answers from the following: H. R. S.—C. E. S.—E. J. G.—J. R. B.—W. T. B.—T. C.—J. R. V.—J. G.

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Enquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of enquiries analogous to the following are sent: "Who sells machines for hulling castor beans? Who sells cotton seed lint machines? Who makes match making machines, and what composition is required for the matches? Whose is the best force pump?" All such personal enquiries are printed, as will be observed, in the column of "Business and Personal," which is especially set apart for that purpose, subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were Granted in the Week ending

November 10, 1874,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

Table listing inventions with names and dates, such as Bag tie, W. Christie, Bale tie, G. N. Beard, Bale tie, A. A. Szabo, Battening, Haley & Bartlett, Bed bottom, spring, C. H. Gallup, Bed lounge, J. Elberweiser, Billiard table, G. Buntin, Binder's finishing roll, book, Skelton & Feely, Boat detaching apparatus, J. McA. Jones, Boiler, culinary, I. C. Mayo, Boiler, upright steam, S. Freeman, Boiler, feed pump and check valve, M. J. Atkinson, Boiler injector, G. H. Little, Boiler, low water indicator, G. M. Hopkins, Boiler covering, etc., T. Merriam, Bolt cutter, J. Dawson, Broiler, pan, E. Jones, Brushes, attachment for blacking, G. E. Milburn, Building, fireproof, H. Maurer, Button fastening, Z. K. Young, Cans, seaming sheet metal, W. A. Wicks, Car axle box, J. M. Brosius, Car axle, railway, D. H. Dotterer, Car brake, railway, M. P. Kimball, Car coupling, S. O. Campbell, Car coupling, H. N. Hart, Car coupling, S. Martin, Car coupling, J. D. Mills, Car door, freight, J. B. Goff, Car propelling mechanism, hand, J. Busser, Car, street, G. P. Frick, Car, ventilating, S. L. Latta, Car window stop, G. M. Brill, Cars, cattle and other, G. W. Bitner, Cars, corner protector for, G. M. Brill, Cars, hub and axle for coal, C. Johnston, Carriage, child's, J. H. Streeter, Carriage curtain fastening, W. Z. W. Chapman, Carriage curtain fastening, G. W. Taylor, Carriage seat, Mellinger & McNiff, Carriage shaft iron, W. Terrell, Carriage step, H. M. Beecher, Cartridge, shot, S. W. Patne, Caster, table, D. Sherwood, Chair, folding, C. D. Oatman, Chairs, foot rest for, E. Collins, Cigars and tobacco, treating, J. Cuddy, Clock escapement, M. Schwalbach, Clock and watch regulator, M. Muchin, Clod breaker, A. Borchers, Cloth stretching machine, C. A. Luther, Corn husking machine, F. M. Widerman, Darning last, E. G. Harley, Dental drill hand piece, W. A. Johnston, Ditching machine, G. W. Marchant, Drill, rock, Fritz, Griscorn, and Frisbee, Drill, rock, W. Hoar, Egg steamer, automatic, A. Arnold, Elevator, M. L. Wyman, Elevator, hod, W. Mullen, Elevator, water, H. M. Sweet, Elevator, windlass water, Howe & Heywood, Engine, fire, J. B. Van Dyne, Engine, oscillating steam, G. J. Wardwell, Engine, reciprocating, G. J. Wardwell, Equalizer, draft, A. D. Manley, Faucet, S. L. Latta, Fertilizer, distributor, C. Harlan, Fire extinguisher, W. E. Platt, Fire extinguisher, J. B. Van Dyne, Fire extinguisher, chemical, A. E. Hughes.

Table listing inventions with names and dates, such as Fireplace, A. T. Bennett, Fire place, L. M. Chipley, Fishing apparatus, L. A. Peck, Foot warmer, M. S. Burns, Furnace, hot air, N. A. Boynton, Furnace, steam boiler, R. L. Walker, Gage, pressure, J. Brown, Jr., Game apparatus, A. B. Daniels, Gas carbureter, W. H. Reed, Gas regulator, G. Goward, Glass furnace, J. R. Denman, Glass furnace, S. Richardson, Grate, C. E. Holt, Grate, J. Moore, Jr., Grate bar, J. E. Gaylord, Grease, etc., saving, H. Pindar, Harvesterdropper, J. S. M. Brooks, Harvester pitman attachment, A. J. Sweeney, Harvester wheel, C. K. Myers, Harvesting machine, S. D. Locke, Heel polishing machine, C. H. Helma, Hogs, wringing, C. P. Housum, Hop extract for flavoring, W. A. Lawrence, Horse detacher, A. Ehret, Horseshoe blanks, roll for rolling, G. W. Lester, Horseshoe nails, finishing, R. Ross, Horseshoe nails, making, R. Ross, Hose suspenders for firemen, W. A. Caswell, Hydrant cock, P. M. Dickey, Jr., Ice cream freezer, G. P. Herndon, Insect destroyer, W. W. Fichtenberg, Jack, lifting, W. M. Doty, Jellies, etc., package for, G. H. Chinnock, Jellies, etc., vessel for holding, G. H. Chinnock, Jump seat, Stock & Underwood, Ladder, S. Hedges, Lamp, street, H. Wellington, Lathe feed mechanism, W. Bley, Lathe for turning spools, Landfar & Campbell, Lathe gear-cutting attachment, W. P. Hopkins, Leathersplitting machine, J. A. Safford, Lightning rods, tubular, J. C. Schoonmaker, Lock spindle, A. Kirks, Locks, plate keyfor, D. K. Miller, Loom, Compton & Wyman, Loom, piled fabric, Compton & Wyman, Loom picking mechanism, G. W. Brooks, Lubricating compound, J. Scott, Lubricating compound, J. Williams, Measuring can, D. M. Mefford, Meat cutting machine, G. V. Brecht, Mechanical movement, R. E. Brand, Meter, fluid, G. E. Peck, Millstone dressing machine, G. H. Arnold, Millstone face tester, J. Thompson, Motion, device for multiplying, F. M. M. Helmer, Mowing machine, F. Bramer, Needle, H. M. Jenkins, Nippers, die for finishing, W. E. Snediker, Nut lock, F. L. Bates, Oil from water, etc., separating, I. C. Bates, Oil wells, torpedo for, L. G. Peck, Ordnance, A. G. Sinclair, Ores, treating cobalt, J. L. Kleinschmidt, Packing, condenser tube, W. A. Lighthall, Packing, piston, T. S. Davis, Paint compound, J. B. Tascott, Paper packages, W. H. Brock, Pianoforte stringing, Rogers & Manning, Pianoforte stringing device, O. A. Gamage, Picture, J. B. Sprague, Picture frame mat, H. S. Hale, Pipes, etc., steam, T. Merriam, Pitman connection, C. M. Young, Planter, corn, R. A. Green, Planter, corn, P. M. Wessel, Plow, M. G. Stemons, Porcelain knobs, G. Thumshirn, Pots, handle for tea and coffee, J. W. Lamb, Press, cotton, E. L. Morse, Printing press, J. W. Hill, Pump, L. S. Daniels, Pump, J. Furgus, Pump valve, A. S. Cameron, Punches, etc., operating, J. A. Safford, Railway switch, A. Quimby, Rake and roller, hand, W. A. Skelton, Rake, horse hay, S. G. Hurlbut, Refrigerating tub, J. C. Jones, Rein holder, I. W. Little, Roof, composition, J. Kittredge, Sash fastener, B. Doe, Saw, circular, E. Andrews, Saw, waddle, D. F. Smith, Sawmill head block, J. H. Hadden, Scabbards, making bayonet, T. W. Rounds, Scales, weighing, H. M. Weaver, Screws, washer for wood, L. K. Fuller, Seed drill, R. B. Sheldon, Seeding machine, W. Workman, Seedlings puller, J. S. Swaney, Separator, grain, H. Kurth, Sewing machine, C. Groubman, Sewing machine ruffler, G. W. Darby, Shafting, hanger for, C. E. Holt, Sole cutting machine, J. A. Safford, Spindle bolster, A. S. Hopkins, Spindle step, A. S. Hopkins, Spinning spindle, E. D. Carter, Spinning machine spindle, F. J. Rabbeth, Steering apparatus, D. N. B. Coffin, Jr., Stone breaker, J. A. Blake, Stove, A. Hamilton, Stove, E. Palmie, Stove, coal oil, B. R. Sweetland, Stove, heating, E. E. Gold, Stove, heating, D. C. Proctor, Stove, magazine, W. F. Ross, Stove polishing machine, I. C. Shuler, Stove, reservoir cooking, W. Rubencamp, Stoves, fire pot and grate for coal, D. C. Breed, Table and clothes rack, ironing, W. C. Arnold, Table, folding, F. Gesser, Table, portable cutting, B. Strawbridge, Thrasher, grain and clover, Lippy & Stocking, Thrashing machines, concave, A. Gray, Tile making machine, P. Hervier, Time check, watchman's, T. Hahn, Tobacco, restoring funky, Hahn & Strecker, Tool receptacle, machine, T. L. Webster, Toy, automatic, R. J. Clay, Valve, steam, Harley & Fendrich, Vehicle axle lubricator, W. Jones, Vehicle wheel, J. E. Cook, Vehicle wheel, Hill et al., Vehicle, shaft and pole attachment, W. Adams, Ventilator, Havell & Braker, Wagon axle, W. F. Sneed, Wa on brake, G. Farmer, Wagon brake, T. L. Webster, Wagon jack, F. Judson.

Table listing inventions with names and dates, such as Watches, safety wheel for, H. B. Wieland, Water drawer or elevator, I. Wing, Water wheel governor, A. Woodworth, Water wheel, turbine, E. Geyelin, Whip socket, H. A. Matthews, Window shade or Venetian blind, F. C. Martin.

APPLICATIONS FOR EXTENSION.

Applications have been duly filed and are now pending for the extension of the following letters patent. Hearings upon the respective applications are appointed for the days hereinafter mentioned: 31,378.—HARVESTER.—R. Dutton. Jan. 27. 31,394.—POTTERY MOLDER.—W. Linton. Jan. 27. 31,402.—GRAIN BINDER.—S. Reynolds. Jan. 27. 31,511.—LAMP.—C. W. Cahoon. Feb. 3.

DESIGNS PATENTED.

7,848.—FLOOR CLOTH.—J. Barrett, New York city. 7,849.—BOXES.—J. Comly, Philadelphia, Pa. 7,850.—CLOCK FRONT.—S. B. Terry, Waterbury, Conn. 7,851 to 7,853.—WOVEN FABRICS.—W. B. Weeden, Prov., R. I. 7,854.—CENTER PICE.—H. Berger, New York city.

TRADE MARKS REGISTERED.

2,060.—RYE WHISKY.—T. G. Carroll, Baltimore, Md. 2,061.—DESICCATED VEGETABLES.—A. Goddill, N. Y. city. 2,062 & 2,063.—GRAIN BAGS.—Graham & Co., Rockford, Ill. 2,064.—COTTON BALE TIES.—C. G. Johnson, N. Orleans, La. 2,065.—CORN SALVE.—J. H. Reichelderfer, Philadelphia, Pa. 2,066.—MUSTARD.—C. L. Stickey, New York city. 2,067 to 2,070.—FLOUR.—Thornton & Chester, Buffalo, N. Y. 2,017.—SPICES, ETC.—Welkel & Smith Co., Philadelphia, Pa.

SCHEDULE OF PATENT FEES.

Table listing patent fees: On each caveat \$10, On each Trade mark \$25, On filing each application for a Patent (17 years) \$15, On issuing each original Patent \$20, On appeal to Examiners-in-Chief \$10, On appeal to Commissioner of Patents \$20, On application for Reissue \$30, On filing a Disclaimer \$10, On an application for Design (3 1/2 years) \$10, On application for Design (7 years) \$15, On application for Design (14 years) \$30.

CANADIAN PATENTS.

LIST OF PATENTS GRANTED IN CANADA, NOVEMBER 17 to 18, 1874.

Table listing Canadian patents with names and dates, such as 4,064.—D. Sullivan, Bangor, Penobscot county, Me., U. S. Improvements in steam boilers, called "Sullivan's Improved Steam Boiler." Nov. 17, 1874. 4,065.—F. A. Hibbard, East Stanbridge, Missisquoi county, P. Q. Improvements in steamers and heaters, called "The Safety Combination Steamer and Heater." Nov. 17, 1874. 4,066.—A. De Garis, New York city, U. S. Improvements in apparatus for fattening fowls, called "Garis' Improved Fowl Fattening Apparatus." Nov. 17, 1874. 4,067.—E. B. Meatyard, Geneva Lake, Walworth county, Wis., U. S. Improvements in elastic railway car wheels, called "Meatyard's Patent Elastic Railway Car Wheels." Nov. 17, 1874. 4,068.—J. Bowman, Harrisburgh, Brant county, Ont. Improvements in hot stoves, called "Bowman's Revolving Angle Damper Parlor Heater." Nov. 17, 1874. 4,069.—J. M. Grover, Oxford, Oakland county, Mich., U. S. Improvements on a straw-holding attachment to harvesters, called "Grover's Grain Binder." Nov. 17, 1874. 4,070.—S. Rue, Philadelphia, Pa., U. S. First extension of No. 2,849, called "Rue's Little Giant Injector." Nov. 17, 1874. 4,071.—S. Rue, Philadelphia, Pa., U. S. Second extension of No. 2,849, called "Rue's Little Giant Injector." Nov. 18, 1874. 4,072.—E. S. Scripture, Brooklyn, Kings county, N. Y., U. S. Improvements on adjustable wrenches, called "Scripture's Champion Cast Steel Adjustable Slide Wrench." Nov. 18, 1874. 4,073.—J. E. Watson, Louisville, Jefferson county, Ky., U. S. Improvements on water gages, called "Watson's High and Low Water Alarm Gages." Nov. 18, 1874. 4,074.—A. Hadden, Goderich, Huron county, Ont. Machine for cramping, called "The Cramping Horse." Nov. 18, 1874. 4,075.—T. M. Chapman, Oldtown, Penobscot county, Me., U. S. Improvements on machine for sharpening saws, called "Chapman's Saw Sharpening Machine." Nov. 18, 1874. 4,076.—H. E. Champion, Detroit city, U. S. Improvements on steam boiler furnaces, called "Champion's Improvement in Boiler Furnaces." Nov. 18, 1874. 4,077.—T. Branigan, Beloit, Rock county, Wis., U. S. Improvements on a boottree, or a device for treating boots, called "Branigan's Champion Boot Tree." Nov. 18, 1874. 4,078.—A. W. Covell, South Elmley township, united counties of Leeds and Grenville, Ont. Improvement on saw sharpeners, called "Covell's Saw Sharpeners." Nov. 18, 1874. 4,079.—J. Steel and J. McInnes, Glasgow, Lanark county, Scotland. Improvements on apparatus for actuating the brakes of railway trains by compressed air, part or parts of which are also applicable for signaling in railway trains, called "Steel & McInnes' Improved Air Brake and Train Signal." Nov. 18, 1874. 4,080.—C. F. Murdock, Detroit city, Mich., U. S. Improvements in stop valves, called "Murdock's Champion Stop Valve." Nov. 18, 1874.

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