

Business and Personal.

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miles from the principal seaport by rail. Dead crabs, or crabshy on the way, would decompose, and while boiling would kill the bacteria, it would not destroy actual poisonous agents, the ptomaines, which are produced by the action of bacteria on animal tissue. Even crabshelled two or three days before reaching Merida, and then reheated before eating, might become reinfected in the interval, and in both cases the ptomaines might produce fatal symptoms resembling cholera. A noted case is one occurring in England, in 1887, when at a wedding breakfast a ham pie was served. Every one who ate of the pie was poisoned, and nearly all died, including the bride and groom. Examination showed that the ham was decomposed before boiling, but the resistant ptomaines were found in the boiled ham in sufficient quantities to cause fatal poisoning. Boiling in copper vessels would not cause such poisoning. As to bacterial examination of the dejecta, bacteria of all kinds are normally found, and the only bacterium known that would be of any aid to the cause of the outbreak would be the "comma bacillus" of cholera.

(4642) R. L. B. writes: 1. I have an electro-magnetic machine that has lost its electric force. Can the magnet be recharged? A. The magnet can be recharged by the usual methods, but it probably will not retain its charge longer than it did in the first instance. 2. What causes it to lose its electric power? A. The steel of which the magnet is composed may be too soft, or possibly the magnet has been subjected to jarring or concussion. 3. Where can I send it to have it recharged? A. Any one having a good sized electro-magnet can recharge your magnet by applying it to the poles of the dynamo.

(4643) H. M. W., Dakota, asks: Is hard coal in use upon any railroad for steaming locomotives drawing full sized trains? A. Anthracite or hard coal is now and has been used for many years on most of the railways in the Eastern States.

(4644) E. M. K.-The eyeglasses are cemented together with Canada balsam. As it requires some practice to do it neatly, better send it to an optician.

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. 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 Granted

January 10, 1893,

AND EACH BEARING THAT DATE.

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

Table listing inventions with names and patent numbers. Includes: Acid, recovering metastannic, F. Gruessner; Advertising device for glass vessels, A. T. Crossley; Air brake coupling, Sennet & Arnett; Air brake, railway, D. Dunn; Air filter, apparatus, J. O. Bentley; Alarm, See Low water alarm; Ammonia, underground distribution and recovery of anhydrous, D. Branson et al.; Animal trap, J. T. Kinsler; Arch for ceilings or vaults, G. L. Mookel; Automatic brake, A. C. Billings; Ax handle shield and protector, C. S. Terpening; Axle box lid, A. W. Zimmerman; Axle, sulky, J. W. Vaughn; Axle, vehicle, J. Lohges; Axle, vehicle, J. W. Vaughn; Band cutter and feeder, C. F. Hawkins; Banjo, A. C. Fairbanks; Battery, See Electric battery. Galvanic battery; Bed brace, V. Humphrey; Bed, folding, E. G. Miller; Bed, for hospital, J. R. Swenson; Bed spring coil, machine, G. I. Stark; Bee escape, R. Porter; Beehive, W. G. Stewart; Beer cooler, R. J. Rice; Bicycle and other tubing, J. F. Palmer; Binder, temporary, W. E. Dyre; Bleaching or dyeing textile materials, method of and apparatus for, L. Le Blois; Block, See Horse or carriage block; Blotter, W. Meyer; Boiler, See Hot water boiler. Locomotive boiler; Steam boiler; Boiler, J. R. Brown; Boiler, M. & G. Hise; Boiler and boiler furnace, E. A. Wheeler; Boilers, blow-off basin for steam, J. F. Cotter; Bone cutting machine, J. E. Wilson; Book, bank or check, S. R. Hopkins; Book rack, adjustable, G. F. Sargent; Boot or shoe creaser, Gordon & Davis; Border for walks, etc., J. E. Chapman; Bottle stopper, F. L. Von Hirsch; Boutonniers, H. W. Fisher; Box, See Lunch box. Work box; Box fastener, F. E. Heywood; Box fastener, H. C. Kitching; Box lid fastener, N. T. Hand; Brake, See Vehicle hand brake; Brake, See Air brake. Automatic brake. Car brake. Train brake; Brake adjuster, automatic, M. E. McKee; Brick building, J. B. Griswold; Brick kiln, B. Griswold; Brick kiln, B. Griswold; Bridge check, Quilligan & Bacon; Broam head, A. A. Willets; Brush, hat or clothes, H. J. Sims; Buckle, L. Dyer; Buckle, G. W. Moores; Bullet mould, J. H. Barlow; Burner, See Gas burner. Oil burner; Butter from milk, compound for increasing the yield of, S. C. Wilson; Butter, manufacture of, D. W. Hudson et al.; Button, Mann & Johnson; Button, bank, F. O. Young; Calculating machine, W. Peterson; Camera plate holder attachment, B. L. Turner; Can, See Milk can. Milk or other can. Oil or gasoline can; Can lacquering machine, R. D. Hume; Cap, Lacto, E. Jablman; Car brake, A. Young; Car brake, street, H. A. Crossley; Car coupling, T. P. Carroll; Car coupling, S. M. Carroll; Car coupling, J. C. Huguely; Car coupling, A. C. McCord; Car coupling, M. Dade; Car coupling, L. Parmyer; Car coupling, T. W. Ranson; Car coupling, R. A. Shipman; Car coupling, Walker & Hammerschmidt; Car fender, A. L. Clarke; Car heating apparatus, G. Collins; Car motor, F. K. Mudd; Car seat, J. S. Johnson; Car, vestibule railway, G. Hancock; Car wheel, W. J. Parmelee; Cars, automatic life-guard for street, G. A. Parmenter; Camel holder, R. A. Donelson; Carpet stretcher, Taber & Murphy; Case, See Display glove case. Prescription case. Show case; Cattle guard, Callaghan & Horn; Centrifugal machine, C. Steffen; Chair, See Dental chair; Chair, sectional, R. A. Grimm; Chimney or flue cowl, J. L. Charvat; Chlorine and caustic soda, apparatus for the production of, J. Greenwood; Chloroform, purifying, R. F. Picket; Chopper, See Cotton chopper. Culinary chopper; Chuck, F. Blessing; Chuck, drill, S. C. Thompson; Churn, N. Monday; Churn, S. J. Saxon; Clear cutting and lighting device, P. Klemann; Clamp, J. Babret; Clasp, W. W. Anderson; Cleaner, See Gun cleaner; Clip, See Vehicle clip; Clothes pounder, Soper & Brown; Coal elevating and conveying apparatus, S. Winsor; Coal feeder, stoker automatic, W. Oehlstrom; Coat sleeve protector, R. A. P. Meade; Coin-controlled apparatus, fraud preventive device for, O. Anschutz; Coin delivering device, H. Broome; Collar fastener, C. Everett; Collar, for coats, G. E. Adams; Cooker, steam, T. N. Scott; Cooking apparatus, gas, J. Ruthven; Cooler, See Beer cooler; Copy holder and rest, extension, J. H. Ambruster; Corset, abdominal, W. J. Teufel; Corset shield, D. Basch; Corset stay, M. Van Orden; Cotton chopper and cultivator, E. M. Nolan; Cotton gin, roller, W. E. McCall; Counterbalance and guide for reciprocating mechanisms, M. N. Forney; Coupling, See Air brake coupling. Car coupling; Crane, Hemphill & Pavell; Crane, charking, H. Aiken; Cuff holder, E. Carpenter; Culinary chopper, J. B. Coe; Cultivator, A. J. Bolster; Cultivator, E. A. Cox; Cultivator, L. B. Bann; Cultivator disk, A. J. Bolster; Cutter, See Band cutter. Meat or bread cutter; Dent chair, A. P. Gould; Desk, W. MacNeece; Detector, See Time detector; Detent mechanism, A. J. Jacot; Detonating compound, S. Rogers; Digger, See Potato digger; Display glove case, E. M. Rosenthal; Distilling and refrigerating apparatus, combined ammonia, J. E. Fuller; Draught evener, L. A. McGilvra; Drill holder, W. G. Church; Drink mixer, E. J. Leyburn; Drying kiln, L. Fine; Dye, yellow red, Bender & Kammerer; Eaves trough hanger, L. S. Bonbrake; Electric battery, C. B. Shepard; Electric battery, C. B. Shepard; Electric light wires, bracket for, G. H. Bennett; Electric lighting system, F. B. Batt; Electric lighting system, H. M. Doubleday; Electric machines, journal bearing for dynamo, W. L. Silvey; Electric motor, variable speed, C. Hering; Electric motors, means for controlling, Ott & Kennelly; Electrical diaphragm, C. N. Waite; Electrical switch, G. Baehr; Electrically controlled ventilator, S. G. Brinkman; Electrode, W. T. Burdick; End gate, wagon, G. S. Snerer; Engine, See Reciprocating engine. Traction engines; Engine steering apparatus, traction, C. O. Heggen; Engines, steady device for portable, E. C. Hendry; Envelope dispensing machine, A. C. Monfort; Evaporating pan, sugar, C. C. Alfred; Excavator and carrier, wheeled, M. E. Cook; Explosive powder and making same, C. E. Munroe; Extension table, J. A. Glanton; Farm gate, J. L. Heaver; Farm gate, J. L. Heaver; Feed trough, B. S. Higgins; Feed trough, T. Lewis; Fender, time stock, J. H. Carpenter; Fender, See Car fender; File holder, W. F. Norman; File, newspaper, Hecht & Fechner; Filter, J. Kraker; Fire escape, J. R. Coker; Fire escape, S. Kaye; Fire extinguisher, O. A. Stempel; Fire screen, G. H. Jessup; Flour mill, E. J. Albaugh; Funnel, T. W. Johnson; Funnel, measuring, L. J. Widness; Furnace, See Smokeless furnace; Furnace, T. J. Moe; Furnace, J. R. Richardson; Gauge, See Lumber gauge. Saw gauge. Water gauge; Galvanic battery, W. C. Caball; Galvanic battery, G. L. Foote; Galvanic battery, W. R. Reud; Game apparatus, J. B. Davids; Game board, J. B. Davids; Game support, E. W. Adams; Game support, E. W. Adams; Gas, apparatus for producing, Rogers & Baker; Gas burner, P. Gary; Gas generating apparatus, J. M. Goldsmith; Gas lighter, electric, T. W. Lane; Gas lighting apparatus, electric, A. M. Sloss; Gas, manufacturing, G. L. Fitch; Gate, See End gate. Farm gate; Gate, T. E. Foudray; Gate, W. A. Williams; Gear, expansion or cut-off, O. F. Jones; Gelatine circulating device, T. C. Mers; Ice cream freezer, J. W. McDonald; Glass moulds, apparatus for mechanically operating paste, M. J. Owens; Glove fastener, G. E. Adams; Governor, steam brake, B. T. Reilly; Grain cleaning machine, T. A. Selp; Grain meter, W. Man & Eugen; Grate, J. W. Cobb; Guard, See Cattle guard; Gudkeon, W. Fergie; Gun cleaner, W. Geneste; Handle, See Trunk handle; Handle, F. W. Hofer; Hanger, See Kaves trough hanger. Lamp hanger; Harvester, corn, P. F. Hodges; Haap lock, D. O'Connor; Hat brim pressing machine, J. Marell; Hatchway attachment, elevator, C. M. Prevear; Heater, See Water heater; Heating apparatus, electric, G. F. Lancrenon; Hitching device, J. E. Terry; Hitching strap, F. Sweetland; Hoisting and conveying apparatus, C. L. Saunders; Hoisting and conveying machinery, F. C. Birch; Hominy mill, O. H. Titus; Hoop, F. Fanning; Hook, See Snap hook; Hook and eye, Bates & Collins; Horse or carriage block, N. F. Carpenter; Hose, J. E. Hopkinson; Hot water boiler, M. E. Herbert; Hour meter, W. J. McDonald; Index device, combination, S. F. Baker; Indicator, See Station indicator; Injector, H. Hopkinson; Inkstand, A. Hillgren; Insulator, strain, L. McCarthy; Interlocking switch and signal, C. A. Christopher; Jack, chest protecting, O. P. Jarvis; Joint, See Stovepipe joint; Kiln, See Brick kiln. Drying kiln; Knife blades, making, T. Shaw; Knitting machine, J. Frelleohr; Ladder, fire, R. Collette;

Table listing inventions with names and patent numbers. Includes: Lamp, B. J. M. Menge; Lamp chimney holder, W. H. Soper; Lamp holder, electric, C. S. Hume; Lamp, pocket, J. H. Farrel (r); Lamp, regenerative, A. J. English; Lamp socket, M. Metzger; Lamps, socket switch for incandescent electric, Henry & Dallyson; Land roller, E. Kime; Lantern, signal, W. J. Kellbemer; Lathing, metal, J. Crittenden & Emery; Law rake, L. Gibbs; Leather working machine, A. Frobst; Letter, sign, F. K. Kennedy; Lifter, See Transom lifter; Lifting device, J. W. Lickey; Linotype making machine, C. Sears; Lock, M. O. Royce; Locomotive boiler, J. S. Newlin; Loom for weaving double-faced pile fabrics, J. Coley; Loom heddle and heddle frame, J. Grob; Loop switch, F. D. Good; Low water alarm, Phillips & McLaughlin; Lumber, drying, J. O. Evans; Lunch box or case, J. C. Mandion; Malting, dry kiln for, J. Kam; Match stick bunching machine, Moul & Quickek; Mattress filling apparatus, W. H. Moore; Meat or bread cutter, M. Cameron; Metal separator for automatically guiding skin moulds in machines for making leaf, C. Reich; Metal planing machine, W. R. Fox; Meter, See Grain meter; Middlings purifier, W. D. Gray; Milk can, etc., E. L. Cantwell; Milk can, A. F. Tripp; Milk separator, J. H. Hancock; Mill, See Hominy mill; Milling machine, wrench, V. F. Carpenter; Mineral separating apparatus, hydraulic, W. S. Lockhart; Mining apparatus, hydraulic, N. C. Miller; Mould, See Blot mould. Butter mould; Motor, See Electric motor; Musical instruments, perforated sheet or plate for, A. Peterson; Nickel, obtaining and separating sulphide of, R. M. Thompson; Nickel, producing and separating sulphide of, J. L. Thomson; Numbering machine, E. G. Bates; Nut lock, W. Sutton; Oil burner, C. T. Smith; Oil or gasoline can, L. S. Bonbrake; Ore concentrator, G. Johnston; Ore washer, C. F. Cabell; Organ or piano pedal attachment, W. A. Hobday; Organ stop action, pipe, J. Woodberry; Oven, K. K. Karis een; Oven, bak, C. F. Hubbard; Packing vessel or jar, R. S. Wiesenfeld; Pad, See Hoop; Pan, See Evaporating pan; Paper holder, toilet, P. A. Bowen; Paraphenetol-carbamide and making same, J. Berthelblau; Pattern, garment fitting, S. Christiansen; Pencil attachment, lead, O. Mussinan; Permutation lock, T. Averbek; Phonographs, automatic feed and return mechanism for, M. O. Anthony; Photograph exhibitor, Nelson & Temple; Pianoforte action, G. W. Seaverns; Piano key touch adjuster, F. B. Long; Pin union, J. T. Smith; Pipe wrench, Gufford & Kitson; Pipe wrench, Gillespie & James; Plant cover or protector, S. Reichart; Planter, corn, J. Anderson; Planter, hand corn, E. Mowry; Plug compensating lever, H. Lindstrom; Pouchbook, posture or cover, O. A. Lehman; Pole or shaft support for vehicles, J. J. Randolph; Pole or thill coupling, P. Weidner; Potato digger, Hoeg & Green; Prescription case, J. Lamb; Press, See Book press; Pressure regulator, fluid, H. Briet; Printer's cabinet, G. M. Williams; Printer's galley, E. L. Shattuck; Prison cell and guard, electric, W. S. Hull; Pulverizer and stalk cutter, C. E. Rife; Pump regulator, F. J. Wood; Pump, centrifugal, tappet for duplex action, M. M. Moore; Punch, G. H. Kavanaugh; Punching and riveting machine, R. J. Shipley; Pyrometer, J. G. Winton; Rack, See Book rack; Radiator, stove, etc., A. T. Orton; Rail brace, chair, girder, M. S. Soper; Railway, closer, conduit electric, C. Stark; Railway, electric, D. E. Kimball; Railway grip, cable, J. B. Mahaffey; Railway rails, fish plate joint for street, E. Samuel; Railway signal, W. F. Z. Desant; Railway signal, W. F. Z. Desant; Railway switch, A. F. Letson; Railway switch, automatic safety, H. C. O. Grublike; Railway system, multiphase, F. B. Badt; Railway trolley, electric, E. H. Jenkins; Railway, underground electric, J. B. Sheldon; Railways, conductor system for electric, G. W. Von Siemens; Rake, See Lawn rake; Reciprocating engine, D. J. Smith; Reel carrier, Hoffstadter & Springer; Refrigerator, See Ice refrigerator; Register or counting device, S. M. Balzer; Register to count the operations of mechanism, S. M. Balzer; Regulator, See Pressure regulator. Pump regulator; Removing obstructions, apparatus for, W. R. McLain; Riveting tool, B. F. Kline; Rock drill, steam, T. F. Farrell; Rods, machine for cutting, pointing, and shaping, J. W. H. Johnson; Roller, See Land roller; Ruler, measuring, making, W. F. Barnes; Sash fastener, J. P. H. Gastrell; Sash fastener, R. E. Sweeney; Sash holder, Hathaway & Elkins; Saw gauge, C. E. King; Saw, device for side swaging and setting, J. Scherer; Screen, See Fire screen; Seaming machine, can, Kendall & Schaake; Seat, See Car seat. Vehicle seat; Sewing machine needle, F. J. Freese; Sewing machine needle, drawer, H. B. Essington; Shavers, C. C. Nagler; Sheet metal creaser, G. D. Pruden; Ships at sea, apparatus for coaling, P. B. Low; Shoe nail, C. E. Stocomb; Show case, J. W. Blackledge; Signal, See Railway signal; Sink and bath tub, M. A. Linder; Sink or basin trap, W. Kerr; Smoke arrester, Parkin; Smokeless furnace, J. V. Burke; Snap hook, H. P. Richards; Soldering machine, J. Wehrlin; Sole leveling machine, West & Clark; Sole trimmi g machine, S. Ross, Jr.; Soldering regenerator, F. Gruessner; Sound recording instrument, E. L. Wilson; Spark arrester, C. O. Heggem; Sponges, brushes, etc., substitute for, W. M. Taylor; Sprayer, portable, J. E. Albinson; Spring jack switch, C. E. Scribner; Spring protector, M. F. Hollingsworth; Stapling machine, E. G. Cohen; Starching machine, C. J. Dion; Station indicator, J. B. Hagan; Stave sawing machine, B. D. Whitney; Steam boiler, T. E. McNeill; Steam generator, R. G. Hayward; Steam generator, W. J. Rauton; Stop motor for rotary machine parts, W. O. Crain; Stopper, See Bottle stopper; Store service apparatus, D. Lippy; Stove, base heating, R. L. Ball; Stove, vapor, C. H. Hollingsworth; Stovepipe joint, L. S. Bonbrake; Straightening machine, H. E. A. Keiser; Strainer, tea, E. Dillingham; Strap, See Hitching strap; Striking bag drum, F. Medart; Sugar, obtaining, C. Steffen; Support, See Gun support; Suspend end, G. W. Baldwin; Suspender end cast-off, G. E. Adams; Suspension device, W. C. Jennings; Switch, See Electrical switch. Interlocking switch. Loop switch. Railway switch. Spring jack switch.

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 see 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. 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.

(4639) N. M. C. asks: Which of two bricks of equal dimensions and weight will require the greater force to move them—the one to be placed on its side, the other on edge, say for instance, the bricks are 4 inches wide by 8 inches long by 2 1/4 inches thick? A. Friction is independent of the extent of surface in contact, when the pressure remains the same, but is proportional to the pressure. There is no difference in the frictional force to move the bricks, whether they lie flat or edge-wise.

(4640) B. A. H. asks: Is there anything that can be used on soft coal that will prevent clogging with soot the stove, pipe, etc., and will aid in the combustion? A. There is nothing but perfect combustion that will burn the smoke and prevent soot in the pipe. Any oxidizing chemical will cost too much. There are stoves in the soft coal districts with under feed that burn the smoke, which is the cheapest and best way to prevent soot in the pipe.

(4641) J. M., writing from Merida, Yucatan, says: From the coast to this city so many crabs have lately been brought that they have been sold very cheap and have been eaten by almost every one. At the same time many persons have fallen sick and several died with symptoms very like those of cholera, causing great consternation. Death has been produced in a few hours, and patients have felt terrible pains and become very cold and blackish (cyanotic, physicians call) and with copious dejections, very bloody. The selling of crabs and fish has been forbidden. The flesh of crabs and patients' dejections have been found, under the microscope, to be full of living organisms (bacteria) that no one has classed yet, and which may be the source of the trouble. Some people believe the crabs were cooked in copper boilers. Others think the crabs were poisoned by eating poisoned fish or poisoned fruit at the shore. Others say the crabs probably were decayed before sale, and remained unnead on account of abundance, total decomposition having been checked by daily heating. How do you explain the matter? Did you ever hear of such a case? A. Sometimes shell fish cause cholera and rash even when fresh. Merida is 20 miles from sea coast and about 60