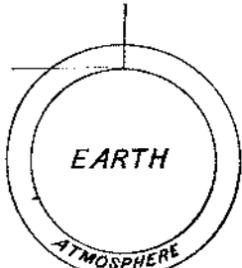




NOTES AND QUERIES

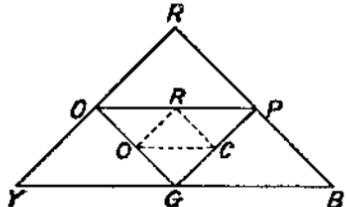
HINTS TO CORRESPONDENTS. Names and Address must accompany all letters...

(9976) A. X. says: 1. Our text in physics says that a body in a vacuum on top of a mountain is lighter than it is in the morning...



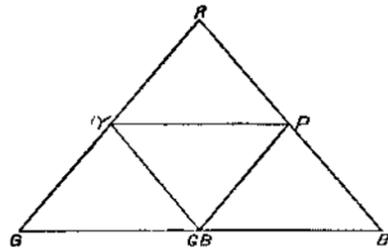
are vertical than when horizontal. In the diagram above I represent the earth and the atmosphere. They say that we receive only one-third of the heat...

(9977) S. G. M. writes: In Notes and Queries of Sept. 2, 1905, (9748), it is stated that green is the complementary color of purple or violet...



and by mixing the two primaries opposite red you obtain green, opposite blue you have

orange, and opposite yellow you get purple. A third triangle inside the secondaries produces the tertiaries, or to give them a name olive, russet, and citrine...



(9978) G. L. asks: I would like to know if earthworms are a benefit or an injury to plants. Earthworms are mainly beneficial to plants by plowing up the soil...

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending May 8, 1906.

Table listing inventions such as Acetylene generator, Adhesives to paper, Agricultural implements, Air brakes, Air compressors, Amalgamators, Amusement apparatus, Animal traps, Ash receptacles, Augers, Automatic gates, Automatic presses, Automobiles, Axles, Bagging and weighing machines, Bale tie machines, Ball rolling machines, Band stripping machines, Baskets, Batteries, Battery plates, Bearings, Bed bottoms, Bed springs, Bedclothes holders, Belts, Bicycles, Binders, Binders, Boats, Boats, Book holders, Book supports, Boring bars, Bottles, Bottle closing devices, Bottle heaters, Bottle indicators, Bottle non-refillable, Bottle non-refillable, Bottle stopper fasteners, Bowl casing, Box covering machines, Box hinging machines, Brake shoes, Brick molding and pressing machines, Bricks and artificial stone, Briquetting machines, Brush, J. Schreiner, Brush, H. W. Gowen, Brush cleaner, paint and varnish, Alley & Sousa, Brush, hair, C. R. Uhlmann, Buckle, H. D. & C. F. Jacobson, Buffing roll, J. Busfield, Bundle of flexible material, self-secured, J. F. Craft, Bundling press, T. C. Dexter, Bundling press, Dexter & Carvell, Bundling press, T. C. Dexter, Bung attachment, safety, O. F. Skinner.

Table listing inventions such as Burglar alarm, W. N. Fawcett, Burglar alarm, L. J. Neff, Bushing, split, R. Crossdale, Button, C. H. Lonsdale, Calcium oxide, reducing, T. L. Willson, Calculator, F. W. Bennett, Calculator, K. H. J. Marckwardt, Camera, hand, C. E. Pezzenik, Can, jar, etc., W. B. Walker, Candle holder and stick, P. M. Knippenberg, Cane mill, sugar, M. R. Spelman, Cannon, smooth bore rotating, W. C. Heitkamp, Car and brake, railway, R. F. Pierce, Car brake beam, railway, S. A. Cronce, Car coupling, pivot pin retaining means for, R. E. L. Janner, Car door, C. W. Tefft, Car door apparatus, J. Shofee, Car dump, E. S. Hart, Car dumping, A. Mieden, Car dumping, T. H. Stagg, Car dumping, Sherman & McKelvey, Car fender, E. A. Johnson, Car fender, J. C. Jorgensen, Car fender, J. A. Sage, Car fender especially adapted for street railways, M. S. Aisbitt, Car fender, street, A. L. Mazzanovich, Car, railway freight, Meissner & Yost, Car, railway freight, W. R. Mulock, Car roof, O. Link, Car seating, W. H. Heulings, Jr., Car sliding doors, guide bracket for freight, E. B. Hale, Car vestibule curtain, E. C. Holmes, Carbuiretor, H. A. Burch, Carriage curtain, C. W. Schreiter, Cask, barrel, drum, and the like, A. Mauser, Cask, metal, A. Holle, Cement block machine, J. J. Cox, Chain, C. W. Levalley, Chair, See Stair chair, Cheese cutter, J. Halliday, Chimney, L. Sepulchre, Chuck, Schmid & Macomber, Chuck, grill, S. A. Eiermann, Churn, Garner & Henley, Churning machine, F. F. Russell, Cigar marker, A. Gruenbergs, Cigar tip cutter, L. E. Garrigus, Cigarette machine, W. T. Coalter, Clamp, A. O. Jones, Cleaning device, E. B. Colwell, Cleaning implement, receptacle, P. H. Tallman, Cleansing apparatus, pneumatic, A. E. Moorhead, Clock, calendar, E. Terrell, Clock or watch wheel, A. Bannatyne, Clothes line pin, Bryan & Sailer, Clutch, friction, T. J. Keboe, Coat, hat, and umbrella lock, R. H. Heberling, Cock, bib, J. A. Stevenson, Coke drawing, quenching, and conveying plant, H. E. Mann, Color lake and making same, violet, Kirchoff & Kerkovius, Column and column cap, J. J. Tresidder, Concrete block making machine, M. Rice, Concrete cistern moulding form, J. H. Wiest, Concrete mold, Foster & Jones, Condenser, W. W. Massie, Condenser, jet, L. von Tresckow, Confectionery coating machine, W. H. Weeks, Conveyer, L. O. Miller, Copy holder, stenographer's, A. B. Reid, Corner, apple, C. F. Roberts, Cork extractor, W. H. Smith, Corks, attaching extractors to, W. H. Smith, Corn elevator, A. Otto, Jr., Corn husking machine, O. Allen, Cotton gin, P. F. King, Counting device, W. & W. Hucks, Jr., Crate, folding, O. L. Anderson, Crate, folding, G. F. Green, Crib or bed, T. J. Hume, Crushing machine, C. G. Buchanan, Cultivator, S. L. Allen, Cultivator, combined riding and walking, Culvert construction, H. Besser, Cupola, W. S. Anderson, Cupola, J. H. Koons, Currycomb, K. T. Neste, Curtain fixture, R. M. Riggs, Curtain pole ring, C. Remhof, Cut off, rain water, L. B. Trigg, Cyanid tank gate, J. Ike, Cycle pedal plate, A. W. Chesterman, Dam, irrigation, A. W. Applegate, Dental furnace, electric, G. G. Steinecke, Dental vulcanizer, V. A. Gudex, Desk and seat and other furniture, school, G. H. Bancroft, Desk shelf, swinging, J. Keck, Die stock, F. B. Downs, Dispensing device for receptacles, A. J. Mottlau, Dividers, H. Dundas, Dock, floating, J. H. Hansson, Door check, H. Ernst, Door hanger, T. C. Prouty, Door securer, E. J. Seyler, Dough mixing machine, J. A. Reams, Draft gear, H. C. Friebe, Draft gear for locomotives and railway cars, Westlake & Thomas, Drawing frames, leveling device for, Westcott & Potter, reissue, Drill, See Pneumatic drill, Drill, F. Canale, Drilling machine, J. E. Conch, Drilling tool jar, E. L. Cleveland, Drug mixer, M. J. Jones, Drum mill, R. Beneke, Drum, tumbling, W. R. Smith, Dry battery, C. J. Hirliman, Dye and making same, anthracene, Bally & Isler, Educational appliance, P. R. Bullard, Egg boiler, time, F. F. Anderson, Electric apparatus, vapor, W. R. Burrows, Electric circuit changer or switch, automatic, F. T. Kitt, Electric circuit timing mechanism, A. R. L. Wille, Electric machines or motors, regulation or control of dynamo, C. P. E. Schneider, Electric motor and generator, J. F. Beck, Electric generator, J. C. Slaughter, Electric switch, A. A. Tirrill, Electric switch, push button, W. C. Tregoning, reissue, Electric switch, snap, A. A. Tirrill, Electric wire conduit elbow, Sibley & Lutz, Electrical distribution system, B. G. Lamme, Electrical distribution system, J. L. Woodbridge, Electricity meter for alternating currents, H. Aron, Electromagnetic waves or the like, detector for, R. H. Renkshay, Elevator, B. E. Kingsley, Engine, E. C. Meyer, Engine cylinder cooling device, L. D. Zent, Enlargements, making half-tone, V. Lamb, Excavating and ditching machine, J. K. Sweeney, Excavating cutter, J. B. Cantwell, Excavator, J. H. W. Libbe, Exchange selector, automatic, C. D. Enochs, Exercising device, physical, I. O. Russell, Explosive, repeating, R. D. Simpson, Extension and other table, R. L. Richardson, Fabric folding machine, woven, M. A. Gutte, Fecal analyzer, J. A. Macdonald, Feed box, metallic, H. M. Thayer, Feeding device for oranges and other articles, M. H. Ballard, Feeding mechanism for oranges and other articles, M. H. Ballard, Fence post, J. B. Clevon, Fence post, M. J. Mullarkey, Fence post, J. W. Barnes, Fence post, G. W. Jackson, Fence post, W. H. Kimball, Fence post, F. C. Schwem, Field or hunting flask, Burger & Aschenbrenner, File, blank check, Sheridan & Wheeler, Filter, H. Tyrell, Filter, oil, C. E. Lefebvre, Fire escape, H. A. Thomsen, Fire escape, M. M. McAtchie, et al., Fireplace, S. Bender, Fireproof column, J. J. Tresidder, Fireproof window frame and sash, F. W. Schaeffer, Fishing reel, G. W. Upton, Flat iron, P. Johnson, Fly press, hydraulic, B. Gerdaun, Folding box, L. F. Hale, Folding seat applicable for outdoor use, theaters, and other purposes, T. Brierley, Formates, making, J. Weise, F. Rieche, and A. Barth, Frog or crossing, C. C. Hardman, Fruit cutting, pitting, and spreading device, A. M. Striplin, Fuel and making same, artificial, S. J. Hon, Fuel, apparatus for the combustion of pulverulent, A. Moore, Fuel, utilization of pulverulent, A. Moore, Furnace, P. Epperson, Furnace, F. W. Burger, Furnace distributor for blast, A. B. Neumann, Furniture, folding, W. N. Anderson, Furniture sections, connection for, A. McKenzie, Gage, See Skirt gage, Game apparatus, Novem & Sandberg, Game board, A. G. Geaney, Game or amusement device, P. W. Nelson, Game table, S. C. Roberts, Garment fastener, J. A. Knowlton, Garter, J. H. Beatty, Gas cleaning machine, C. O. Nordensson, Gas exhauster, J. T. Wilkin, Gas generator, acetylene, M. D. Compton, Gas generator and mixer, Crawford & Sinclair, Gases, process and apparatus for separating mixed, C. Clamond, Gasolene motor, L. Petterson, Gate, J. S. Johnson, Gate, J. T. Reese, Gearing, H. Baerback, Glass, apparatus for the manufacture of sheet, W. B. Keighley, Glass assembled, clamp for holding plates of, H. Mahn, Glass pot furnace and pot and making the same, W. T. Nicholls, Glazier's point, R. J. Henderson, Glazier's tool, B. A. Brown, Glove or mitt, base ball, R. P. Le Mat, Golf club, C. E. R. Martin, Grading and excavating machine, S. H. Bloomer, Grain separator, Slutz & Lee, Grate bar, R. C. Montague, Gravity lock for sliding doors, L. A. Turner, Greenhouse, C. Ickes, Grinding machine, H. A. Higbee, Grip, J. Dunbar, Gun, torpedo, E. L. Zalinski, Hair fastener, Rogers & Dittmer, Hammock suspension support, F. E. Schmidt, Hammock swinging device, W. A. Kress, Harrow, A. Friedman, Harrow, N. C. Allen, Harvester, self-binding, A. N. Wiens, Harvesters, grain divider attachment for, C. A. A. Rand, Hay and straw puller, S. Ray, Heater, A. von Chigor, Heating device, collapsible, J. G. Newcomb, Heating furnace, D. S. Richardson, Heating system, F. Shufflett, Hoof pad for horseshoes, B. P. Gray, Hook and eyelet setting machine, H. C. Penoyer, Horse detacher, O. von Beglerbeg, Horses from vehicles, means for freeing, D. Boldog, Horseshoe, B. & A. Messinger, Hose nozzle, C. S. Alderman, Hub, wheel, O. Lundin, Ice cream cabinet, C. Nelson, Incubator, J. M. Sontag, Initiation apparatus, J. M. Seibert, Insecticide trap, E. S. Bedford, Internal combustion engine, D. M. Livingston, Ironing board support, C. Shafer, Ironing table, E. S. Cross, Journal box and dust guard, J. S. Patten, Keg sheet metal, A. T. Kruse, Key, See Piano key, Key fastener, L. A. Foster, Kneading and aerating roller, dough, W. Latham, Knotted, Thompson & Pinkham, Lacework holder, A. Proctor, reissue, Lacing, Haws & Hill, Lacing for wearing apparel, M. Meyer, Lacing tip, F. B. Stirkler, Ladder, J. I. Thompson, Ladder, compound scaling, W. F. Sampson, Ladder, step, Shoecraft & Allard, Lamp, alcohol, G. T. Witterley, Lamp burner, oil, J. Sharpley, Lamp, electric incandescent, W. J. Phelps, Lamp, incandescent electric, C. Schubel, Lamp, incandescent spirit, Liedke & Rabenhorst, Land roller, R. S. Buch, Lantern holder, Roberts & Mathews, Lasts, jack pin for hinged, W. B. Arnold, Latch and lock, door, G. A. Lindstrom, Lathing system, E. Nicks, Leather, composition of matter for softening and bleaching sole, W. F. Morang, Leather cutting machine, J. Smith, Leather, method of and apparatus for shredding, O. M. Cutler, Leather shredder, O. M. Cutler, Leg, artificial, J. T. Aggar, Lens mounting, V. Bertolini, Level, J. A. Traut, Leveling instrument, H. S. Williams, Lifting jack, N. Weiler, Lighter bar stand, M. R. Rust, Liquid fuel furnace, portable, Meyer & Chevalier, Locomotive, F. O. Whealon, Locomotive exhaust, F. Robinson, Loom shuttle binder holding device, B. F. McGuiness, Loom shuttle box motion, E. H. Ryan, Loom warp tensioning means, W. F. Draper, Lunch cabinet table, T. T. Chamberlain, Marble shooter, V. Keller, Marine boiler, B. Heftye, Mass mixing machine, E. L. Richards, Match box, F. B. Watson, Matrix trimming and similar machine, L. B. Benton, Mattress, F. Maussner, Mattress tufting machine, R. R. Thompson, Mattress tufting machine, Thompson & Pinkham, Mattress tufting machines, knotted for, R. Thompson, Measurement indicator, G. L. Hansen, Measuring and computing machine, rope, E. F. Hug, Measuring instrument, electrical, T. Aht Meyer, Medicated pencil, C. S. Maschal, Merry-go-round, J. B. Barnett, Metal seat, pressed, R. T. J. Martin, Metallic fabric, G. H. Beident, Metallic post, L. C. Sharp, Milk product, means for making a, C. M. Taylor, Jr.