

(5) B. F. B. asks what printers' ink is made of.

(6) W. B. R. asks if there is anything that can be used to refinish japanned iron and marble.

(7) T. B. W. asks how phenol sodique is made.

(8) C. M. W. asks (1) the difference between a yard square, a square yard, and a cubic yard.

(9) E. C. T. asks a practical method by which a right lined quadrilateral figure or square may be reduced to one-half its area.

(10) J. A. G. asks how to make orange water.

(11) J. R. T. asks: How can I mix a body of plaster of Paris, say 24 inches square.

(12) P. B. asks: How is pool and billiard chalk made.

(13) E. B. R. and H. S. (1) a recipe for ebonying wood.

(14) F. S. asks the ingredients, proportion, and process of making liquid stove polish.

(15) G. M. asks: What mineral would be nearest in color and appearance to potato starch?

(16) J. M. asks: What will remove varnish from furniture without removing the stain.

(17) F. W. S. asks how to make a glue for gluing a musical instrument.

(18) C. A. B. asks: What is put into water to assist in producing a tone.

(19) W. M. R. asks (1) how to set a common slide valve in stationary, locomotive, and marine engines.

(20) J. M. writes: Would like to know how to make a spoiled home-made blackberry brandy good.

an excess of acid, which can be remedied by the addition of some potassium bicarbonate.

(21) L. A. O. asks: 1. What will prevent the hair from falling out?

(22) A. F. O. writes: I have a complete humanskeleton, just from the caldron of the medical college.

(23) F. C. asks: 1. What is the difference or distinction, if any, between cotton wool, absorbptive cotton, cotton batting, etc.?

(24) A. J. G. writes: I have a quantity of red wine vinegar which I am anxious to settle.

(25) F. B. S.—The exact period of the building of Jerusalem is not definitely proved.

(26) J. H. A. asks: What is the cause of putty losing its color and turning white in the joints of bricks?

(27) J. J. R. writes: I have a large tank (circular) which I wish to coat with something before I let in the water.

(28) F. J. W.—Arsenic is put in lead shot to facilitate the process of finishing.

(29) J. T. B.—There will be very little difference in your house with a 4 inch air space and a 1 inch air space.

(30) A. R. writes: 1. We have a theater, field, and marine glass, combined.

pieces do not register, that is, we see two images, yet each eye piece, when used alone, gives clear and sharp views.

(31) C. B. B. asks: 1. What diameter shafting should be used to transmit eight horse power from a high speed steam engine.

(32) W. R. B.—You cannot obtain a general license in New York city.

(33) B. A. W.—For falling bodies: The velocity in feet per second = $\sqrt{S \times 2g}$.

(34) W. R.—It has been found that the oil from the cod's liver contains iodine, bromine, chlorine, acetic acid, phosphoric acid.

(35) R. W. S. asks the simplest way of making lard oil. A. The process is simple, yet requires expensive machinery.

MINERALS, ETC.—Specimens have been received from the following correspondents.

R. H. L.—The specimen is a variety of slate. It has no value in New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted, January 5, 1886, AND EACH BEARING THAT DATE.

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

Table listing inventions with names and patent numbers, including Air compressor, Alarm service, Altimeter, Artificial mother, Auger for cutting square holes, Barrel heads, Basket, Battery, Beading tool, Bed bottom, Bedclothes securer, Bed springs, Bedstead, Beer and other liquors, Bicycle, Bilge water ejector, Bilge water indicator, Bleaching, Blind shutter, Block, Blower for stacks of boiler furnaces, Boat, Boats or small vessels, Boiler, Boiler and steamer, Boiler furnace, Bolt lock, Boot or shoe heel plate, Boot or shoe treading machine, Boots and shoes, Boots, shoes, or stockings, Bottle filling machine, Bottles, Box, Brake, Breast strap hook, Brick moulding device, Broom rack, Brooms and brushes, Buckle, Bundle carrier, Button, Button collar, Button fastener, Cab, Can, Can opener, Candlestick, Cane, Car brake, Car coupling, Car furniture, Car spring, Car stock, Car window, Cars, Carbureting attachment, Carburator, Carding machine, Carriage curtain fastening, Carriage jack, Carrier, Cartridge, Cartridge shell crimping device, Case, Casting metal ingots, Chain drive, Chair, Check for bridles, Check rein hook, Christmas tree, Clock case, Clothes pounder, Coal loading apparatus, Coal tippie, Coffee hulling and polishing machine, Coffee mill, Compound engine, Condenser, Convertible chair, Conveying apparatus, Coupling, Cuff holder, Cultivator, Cultivator, disk, Cultivator, wheel, Cushion for vehicles, Cutter, Cylinders or cylindrical vessels, Dash pot, Desk, Disinfecting materials, Distance instrument, Distilling wood, Distilling wood, etc., Doors, Door spring and check, Draught equalizer, Drawings, Dredger, Dressing case, Drier, Drier, Drill, Drill bits, Drill teeth, Earth boring machine, Edger, Edger, gang, Egg preserving device, Egg register, Electric light circuits, Electric lighting system, Electric machine, Electro-mechanical battery, Elevator, Ellipsograph, Engine, Engine, Traction engine, Winch engine, Engine for running sewing machines, Engine for running sewing machines.

