ENGINEERING INVENTION.

A furnace has been patented by Mr. John H. Weitmyer, of Harrisburg, Pa. The fire back contains an air chamber, from which highly heated air is made to issue into the furnace in small jets, the construction being such that all the air entering the furnace becomes heated from contact with heated surfaces, and is so distributed as to cause most effective combustion and utilization of the heat.

AGRICULTURAL INVENTIONS.

A combined corn and cotton planter has been patented by Mr. William Walker, of Weimar, Texas. It is so constructed that by simply shifting the connection between the corn slide and the crank arm of an agitator, the device may be adjusted to act as a planter of corn or cotton, or, by another simple change, may be made to serve both purposes.

A planter has been patented by Mr. Richard A. Fraser, of Mansfield, La. The machine is short, na row, and light, can easily be guided close to stumps and other obstructions, and readily handled and planting either corn. cotton, or other seeds, in drills or hills, with regularity and without waste of the seeds.

A plow has been patented by Mr. Pinkney H. Lequire, of Greenwood, Ark. It has a curved beam, with handles attached in the usual way, and auxiliary plows connected with the beam by pivoted cross bars, and held in the position of use by slotted pivotal braces, so that it can be used as a light ordinary plow, as a right or left double shovel plow, and as a right or left side harrow or cultivator.

A cotton planter and fertilizer distributer has been patented by Mr. James W. Voltz, of Marion Junction, Ala. It has a supporting frame with hopper, independently moving distributers, and means for operating them, whereby the seed or fertilizer will be distributed with certainty and uniformity, with other novel features, making a machine simple in construction and readily adjusted and controlled.

MISCELLANEOUS INVENTIONS.

A calf weaner has been patented by Mr. Max J. Ahlgrim, of Rose Lawn, Ind. It consists of a half muzzle, formed of wire, pivoted to a halter, and connected by rods to weighted levers pivoted to the sides of the halter, arranged to lift the muzzle when the animal is in position for grazing.

A rod for banners and similar uses has been patented by Mr. Rufus H. Sawyer, of Boston, Mass. It is an ornamental bar, with a cord composed of a metallic and a fibrous strand wound around it, making an improved article for banners and bannerets, and also for lambrequins, lace curtains, etc.

A photo-developing box has been patented by Mr. William H. Lewis, of New York city. The re consists in hinging the sections of the box together by yielding hinges, to avoid danger of breaking. The Railroad Gazette, handsomely illustrated, pubthe plate, and to hold films with or without plates, and lished weekly, at 73 Broadway, New York. Specimen plates of different thicknesses, together with other copies free. Send for catalogue of railroad books. plates of different thicknesses, together with other

A packing frame for paper has been patented by Mr. Charles F. Spaulding, of Elizabeth, N. J. It is made of bars with metallic couplings and longitudinal and transverse sockets, which can be packed in small space and readily converted into a knock-down frame for bundles of paper, to prevent the binding cords from marring the edges.

A shirt has been patented by Mr. Ferdinand Jacoby, of New York city. Its body has sleeves provided with re-enforcing pieces formed with straight edges, bound in with the wrist bands, whereby it is intended that the sleeves will be more than doubled in durability, at the wrist bands and to a point above the elbow, with but slight addition to the first cost of the

A sliding door hanger has been patented by Mr. James Allan, of New York city. Combined with the door and a casing having guideways are hanging bars pivoted together at about their centers, with other novel features, whereby such doors are so supported that they can be opened and closed without coming in contact with the floor or the carpet, which can be continued through the doorway.

A button hole marker has been patented by Anna Huffer, of Cowden, Ill. It is a device of simple construction, having a scale, regularly spaced slots, a guide plate, etc., whereby button holes can be expeditiously cut or marked without raising the marker from the goods, and all be same distance from the edge of the cloth, the same distance apart, and of the same

Y. Combined with a main supporting frame having racks is a table leaf with toothed quadrants engaging with the racks, and an operating mechanism, whereby the throwing or casting of a horse with a side line previous to a surgical operation may be avoided, and the horse can be handled without danger to the operator.

A cigarette machine has been patented by Mr. Ambrosio de Zayas y Moreno, of Matanzas, Cuba. The tobacco is placed in a hopper, from which it passes to a distributing and other screws, and is discharged in a packed form into the wrapper and the operation completed, the invention covering numerous novel details and combinations of parts in a machine designed to be simple and effective for producing perfect

A street car heater has been patented by Mr. Theodore Wiseman, of Lawrence, Kansas. The heaters consist of a cast iron arch, the ends of which idisease sending a self-addressed stamped envelope to are closed by rectangular front and rear castings, which | Dr. Lawrence, 212 East 9th St., New York, will receive State the best practical method of collecting atmoserve as supports for the grate and for the ash pan, the recipe free of charge. which is suspended beneath the grate, the whole being under the platforms of the car, there being a smoke ontlet, distributing chamber, separate register pipes and various other novel features.

Business and Personal.

The charge for Insertion under this head is One Dollar a line for each insertion; about sight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear innext issue.

Wanted-Good die-maker, thoroughly acquainted with combination and cutting dies. To right man, constant employment and good wages. Address W. H. Baufield, Toronto, Canada.

The "Duro" Chair Making System. Rights for sale. Agents wanted. G. T. Evans, patentee, Buffalo, N. Y.

A mechanical engineer, well educated, experienced in the construction of engines, tools, and fine machinery, desires to change his position. Address Q. Y., P. O. box 773, New York.

Best Electric BeltPatent (dated June 15, 1886) for sale, or to place on royalty. Copy of patent free. Geo. A. Wright, lock box 102, Concordia, Kan.

"Heaven is not reached at a single boun sung Dr. Holland, and the same may be said of health. But many a sick person would make rapid strides in the direction of complete health by using Dr. R. V. Pierce's stumps and other obstructions, and readily handled and "Golden Medical Discovery." It is a sovereign remedy adjusted by any person of ordinary intelligence for for all forms of scrofulous diseases, king's evil, tumors, white swellings, fever sores, scrofulous sore eyes, as well as for other blood and skin diseases.

Mechanic's Own Book. Full instructions for drawing, casting, founding, forging, soldering, carpentry, carving, polishing wood and metals, turning, roofing, etc. 702 pages; 1,420,illustrations. \$2.50, post paid. E. & F. N. Spon, 35 Murray St., N. Y.

C. E. Billings' Patent Cutting-off Tools, 7 different blades. Billings & Spencer Co., Hartford, Conn.

Protection for Watches.

Anti-magnetic shields-an absolute protection from all electric and magnetic influences. Can be applied to any watch. Experimental exhibition and explanation at "Anti-Magnetic Shield & Watch Case Co.," 18 John St. New York. F. S. Giles. Agt., or Giles Bro. & Co., Chicago where full assortment of Anti-Magnetic Watches can be had. Send for full descriptive circular.

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Complete-Practical Machinist, embracing lathe work, vise work, drills and drilling, taps and dies, hardening and tempering, the making and use of tools, tool grinding, marking out work, etc. By Joshua Rose. Illustrated by 356 engravings. Thirteenth edition, thoroughly revised and in great part rewritten. In one volume, 12mo, 439 pages. \$2.50. For sale by Munn & Co., 361 Broadway, New York.

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Friction Clutches from \$2.25 on. J. C. Blevney, Newark, N. J.

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A Catechism on the Locomotive. By M. N. Forney. With 19 plates, 227 engravings, and 600 pages. \$2.50. Sent on receipt of the price by Munn & Co., 361 Broadway, New York.

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Pumps for liquids, air, and gases. New catalogue now ready.

The Knowles Steam Pump Works, 44 Washington St., Boston, and 93 Liberty St., New York, have just issued a new catalogue, in which are many new and improved forms of Pumping Machinery of the single and duplex, steam and power type. This catalogue will be mailed free of charge on application.

Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J Nickel Plating.—Sole manufacturers cast nickel and odes, pure nickel salts, polishing compositions, etc. \$100 "Little Wonder." A perfect Electro Plating Machine. Sole manufacturers of the new Dip Lacquer Kristaline. Complete outfit for plating, etc. Hanson, Van Winkle &

processes, and directions, for the Mechanic, Engineer, Farmer, and Housekeeper. With a Color Tempering Scale, and numerous wood engravings. Revised by Prof. Thurston and Vander Weyde, and Engineers Buel and Rose. 12mo, cloth, \$2.00. For sale by Munn & Co., 361 Broadway, New York.

Iron and Steel Wire, Wire Rope, Wire Rope Tramways. Trenton iron Company, Trenton, N. J.

States for more than one year, it may still be natented in Canada. Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instructions address Munn & Co., Scientific American patent agency, 361 Broadway, New York.

Expanders. R. Dudgeon, 24 Columbia St., New York. Friction Clutch Pulleys. D. Frisbie & Co., N.Y. city.

Tight and Slack Barrel Machinery a specialty. John Greenwood & Co., Rochester, N.Y. See illus. adv., p.28. Catarrh Cured.

A clergyman, after years of suffering from that loath some disease, catarrh, and vainly trying every known remedy, at last found a prescription which completely cured and circuit, or would each lift only eight ounces? A saved him from death. Any sufferer from this dreadful

Lick Telescope and all smaller sizes built by Warner & Swasey, Cleveland, Ohio.

Send for catalogue of Scientific Books for sale by tric machine can hard from the atmosphere. Munn & Co., 361 Broadway, N. Y. Free on application.



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.

In quiries not answered m reasonable time should be repeated; correspondents will bear 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.

(1) P. H. asks: What is the best method and simplest for putting ebonized finish on small work-table? A. The stain is produced by successive applications of a decoction of logwood, followed by one of copperas; the article is then French-polished and rubbed up with oil and spirit.

(2) W. R. X. asks for a solution for waterproofing canvas horse and wagon covers that will be flexible. A. Take boiled oil fifteen pounds, beeswax one pound, ground litharge thirteen pounds; mix and apply with a brush to the article, previously stretched against a wall or a table, washing and drying each article well before applying the composition.

(3) T. L.—We do not know of any record of the first use of barrels. Their sizes were regulated by law in England over 200 years ago.

(4) H. W. L. asks the proper construction of condensers such as are used in telegraph lines. A. Use ordinary tin foil, with ordinary tissue paper be tween the sheets, the whole immersed in ordinary white melted paraffin, and then withdrawn. Each second sheet of tin foil is connected to one terminal, and the remaining sheets to the other.

(5) Ph. D. asks how to make gum tolu, ady for chewing. A. Take of balsam tolu 4 parts and of gum benzoin, white wax, paraffine, and powdered sugar, one part each. Melt together, mix well, and roll

(6) J. S. McG. asks how it is that in numerous places along the Atlantic coast, a driven well, right through the salt water, will obtain pure, fresh water a few feet beneath. A Because the Tertiary strata along the Atlantic coast from New York to Georgia slant toward and extend under the Atlantic. The subsoil water drains toward the sea, and finally issues as fresh water springs along the shore in the marshes and at the bottom of the ocean off shore. Thus artesian wells may be sunk in the sea bottom off the coast of New Jersey and fresh water obtained at the

(7) F. P. L. asks: 1. Of what materials is the composition composed on picture mouldings? In what proportions are they mixed? How are they moulded in shape? How is thewhite grounding compositiion mixed and applied? A. Dissolve 1 pound of glue in 1 gallon of water. In another vessel boil together 2 pounds of resin, 1 gill Venice turpentine, and 1 pint linseed oil; mix and boil together until water has disappeared, when add finely powdered whiting until mass is of consistency of putty. This is hard when cold and soft when hot. It can be moulded in plaster of Paris or glue moulds. The white base seems to be mason's hardfinish. It would be advisable to drive brads or tacks where the high parts come to be bedded in the composition, and hold it in place.

(8) J. D. asks: 1. In making the dynamo described in SUPPLEMENT, No. 161, with 12 and 14 instead of 16 and 18 wire, should it have 7 layers on the electro magnet the same? A. In general terms, it should, but we recommend exact adherence to the gauge given in our article. 2. I am making one, once and a half as Co., Newark, N. J., and 32 and 34 Liberty St., New York. high, once and a half as wide, using 9 and 11 wire; and Iron Planer, Lathe, Drill, and other machine tools of one twice as high and twice as wide, and using 6 and 8 modern design. New Haven Mfg. Co., New Haven, Conn. | wire, for plating purposes. Is this the right size of wire Wrinkles and Recipes. Compiled from the SCIENTI- to use? A. Your sizes of wire for the large ones will FIC AMERICAN. A collection of practical suggestions, probably work, but how well we cannot say. 3. I want an apparatus for measuring currents like the one described in Scientific American, November 21, 1885, page 225, for the above machines. What thickness of wire would I want, and what length and width of tube, and what would be best to make the float and float rod A veterinary operating table has been patented by Mr. Mathew L. Faling. of Tonawanda, N. Y. Combined with a main supporting frame having Iron and Steel Wire. Wire Rope. Wire Rope. Tramback of the core float the core of German silver or brass. 4. Would this apparatus effect the current much if constantly attached to a dy-If an invention has not been patented in the United namo? A. It would not affect the current to any ex

> (9) T. H. H. asks: 1. How can I make a telegraph sounder so that the upward and downward stroke of the armature will be increased to double its The Improved Hydraulic Jacks, Punches, and Tube present force? A. The power of stroke of a sounder is due to the size of magnet and coils and battery power. In general terms, you may increase its power by enlarging its core and armature and using larger wire, so as to secure the same number of turns in each bobbin. 2. If a single sounder will lift one pound (if attached to armature), will there be any increase in power, if the same battery is used, if another sounder was put in sounders would lift much more than one; under some conditions, nearly double with the same battery. 3. spheric electricity, aside from the lightning rod. A For collection of atmospheric electricity, probably the rod is as good as any device. The ordinary static tric machine can hardly be said to collect electricity

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 unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all equaled facilities for procuring patents everywhere. 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 ex-tensive facilities for conducting the business. Address MUNN & CO., office Scientific American, 361 Broadway, New York.

United States were Granted

November 30, 1886,

AND EACH BEARING THAT DATE.

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

Adding machine, Lewis & Guerrant...... 353,318

Air brake, automatic compressed, A. S. Goode	353,318
Alarm. See Boiler water alarm. Burglar alarm.	0004930
Apron supporting band, A. M. Morrison	358,575
Ax, N. Goodier	353,447
Axle box, T. G. Mandt	
Axle box, car, H. Still	050,021
Bag and twine holder, combined, J. Allen	353,435
Bag fastener and tag holder, A. Leyden	353,456
Balcony, adjustable, G. D. Husemann	
Banner or other like rod, R. H. Sawyer	
Barrel, tub, etc., J. A. Tanner Basket, M. H. Disbrow	
Bed bottom, spring, R. W. Homan	
Bicycle, L. A. Rust	253,380
Bicycle handle, R. Rodes, Jr	853,504
Bier, Newton & Terry	353,378
Blacking box holder, Meeker & Fisher Blacking stand and stool combined, shoe, F. E.	
Levanseler	353,317
Blasting tamp, W. Galloway	
Boiler. See Clothes boiler. Locomotive boiler.	
Boiler front, W. A. Hennessey	
Boiler furnace, steam, G. Selden Boiler furnace, steam, H. Thompson	
Boiler water alarm, F. R. Stevenson	
Bolt and rivet heading machine, F. Philips	
Book binding, J. H. Johnson	353,562
Book shelf, J. Danner	353,443
Boot or shoe finishing jack, M. Harriman Boot or shoe nailing machine, H. Dunham	
Boots for shoes, mould for soles and heels of, D.	000,041
Banks	353,617
Bottle, G. Sloan	
Bottle stopper, Slaybaugh & Akers	353,599
Box. See Axle box. Fire alarm signal box.	
Match and cigarette box. Photo-developing box.	
Box band, W. A. Comstock	353,540
Brake. See Air brake. Car brake. Wagon	,
brake.	
Breast strap coupling, D. L. Shafer	
Breastpin catch, S. E. Cheesman	
Brick, E. L. Ransome	
Bridges and culverts, fastening for, J. Goodnight. Buckle, J. Spruce	
Building, frame, J. W. Frey	
Building material, producing, C. C. Gilman	353,630
Bundle carrier, M. G. Bogert	
Burglar alarm, S. D. Lauffer et al	
Burnishing machine, H. J. House	353,683
Burnishing machine, H. J. House	353,683 358,614
Burnishing machine, H. J. House	353,683 358,614 353,394
Burnishing machine, H. J. House	353,688 358,614 353,394 353,623
Burnishing machine, H. J. House Butter, lard, etc., cutter for, R. Weller Button and holder, cuff, E. Zoller Button attaching machines, trip for operating, W. Crain Cabinet for spool thread, F. Meyers	353,688 358,614 353,394 353,623
Burnishing machine, H. J. House Butter, lard, etc., cutter for, R. Weller Button and holder, cuff, E. Zoller Button attaching machines, trip for operating, W. Crain Cabinet for spool thread, F. Meyers Cable roads, ditches, etc., concrete mould for sub-	353,633 353,614 353,394 353,623 353,572
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Burnishing machine, H. J. House Butter, lard, etc., cutter for, R. Weller Button and holder, cuff, E. Zoller Button attaching machines, trip for operating, W. Crain Cabinet for spool thread, F. Meyers Cable roads, ditches, etc., concrete mould for subways for, E. L. Ransome Calipers, slide, J. Hurst Camera. See Detective camera. Can. See Oil can. Cannon, pneumatic, G. H. Reynolds Car brake, A. G. Butterfield Car cable grip, T. Kerr Car coupling, R. M. Crawford Car coupling, W. K. Keen Car coupling, M. J. Lorraine Car coupling, M. N. Towne	353,683 358,614 353,394 353,623 353,572 353,561 353,490 353,621 353,361 353,493 353,361 353,493 353,361 353,363 353,565
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Burnishing machine, H. J. House. Butter, lard, etc., cutter for, R. Weller Button and holder, cuff, E. Zoller Button attaching machines, trip for operating, W. Crain. Cabinet for spool thread, F. Meyers. Cable roads, ditches, etc., concrete mould for subways for, E. L. Ransome. Calipers, side, J. Hurst. Camera. See Detective camera. Can. See Oil can. Cannon, pneumatic, G. H. Reynolds. Car brake, A. G. Butterfield. Car cable grip, T. Kerr Car coupling, R. M. Crawford. Car coupling, W. K. Keen. Car coupling, W. J. Lorraine. Car coupling, M. J. Lorraine. Car coupling, A. N. Towne. Car soupling, A. N. Towne. Car, spring dumping, G. E. Blaine. Car, spring dumping, G. E. Blaine. Car starter, S. Baker. Car starter and brake, E. Hartmann. Cars, etc., apparatus for lighting and heating railway, R. H. Plass. Car, sign and advertising board for street, Brill & Rawle. Carburctor, P. Keller. Carpet lining, J. S. Munroe. Carpet stretcher and tacker, A. H. & F. G. Noyes. Carpet sweeper, W. J. Drew. Carriage, J. N. Miller. Carriage, J. N. Miller. Carrier. See Bundle carrier. Line and trace carrier. Paper egg carrier. Case. See Plano case. Stair case. Chain, ornamental, O. M. Draper. Chair. See Ladder chair. Chair for working strachment, W. J. Snider. Check rower, E. M. Heylman. Check rowing attachment, W. J. Snider. Check rowing attachment, W. J. Snider. Cigar bundling press. W. Wassung. Clayp, "See Corner clamp. Jar clamp. Clay, machine for working fire, J. H. Green.	353,683 353,614 353,394 353,623 353,572 353,561 353,561 353,490 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,565 353,519 353,566 353,517 353,566 353,516 353,516 353,516 353,517 353,517 353,517 353,517 353,517 353,517 353,517 353,517 353,517 353,517 353,517
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