Business and Personal.

The charge for Insertion under this head is One Dollar a line for each insertion: about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in the following week's issue.

"L. S." metal polish. Indianapolis, Samples free, Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. Smith's Leather Pattern Fillet, Akren, O. Sample free. Handle & Spoke Mchy. Ober Lathe Co., Chagrin Falls, O. For best hoisting engine. J. S. Mundy, Newark, N. J. Heading machinery. Trever Mfg. Co., Lockport, N. Y. Practical Ammonia Refrigeration. Redwood. Cloth, \$1. Spen & Chamberlain, 12 Certlandt St., New York.

Screw machines, milling machines, and drill presses. The Garvin Mach. Co., Laight and Canal Sts., New York, Centrifugal Pumps. Capacity, 100 to 40,000 gals. per minute. All sizes in stock. Irvin Van Wie. Syracuse. N.Y. Emerson, Smith & Co., Ltd., Beaver Falls, Pa., will Sawyer's Hand Book on Circulars and Band Saws freete any address.

Guild & Garrison, Brooklyn, N. V., manufacture steam pumps, vacuum pumps, vacuum apparatus, air pumps acid blewers, filter press pumps, etc.

FREE GROUND GIVEN,

in Phila. suburbs, to large manufacturing plants. Railroad facilities. Hoffman, 60 and Balt. Ave., Phila.

For the original Bogardus Universal Eccentric Mill, Foot and Power Presses, Drills, Shears, etc., address J. S. & G. F. Simpson, 26 to 38 Rodney St., Brooklyn, N. Y.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 36! Breadway, N. Y. Weven wire brushes.—The Belknap Motor Co., of Pertland. Me. are the patentees and manufacturers of

the best weven wire commutator brush on the market, Competent persons who desire agencies for a new popular book of ready sale, with handsome profit, may apply to Munn & Co., Scientific American office. 361 Broadway, New York.

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HINTS TO CORRESPONDENTS.

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 This is for our information and not for publication.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 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.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.

Special Written Information on matters of personal rather than general interest cannot be expected without remuneration.

Scientific American Supplements referred

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.

magnet be made equally as strong as that of an electromagnet wound by any desired strength? A. No; ar electromagnet may be much stronger.

(6376) E. C. S. writes: In a recent discussion as to the velocity of falling bodies, I made the general statement that all bodies fell with equal velocity, feathers, etc. Will you kindly throw some light on the matter, as one of our local scientists maintains that a one. The Encyclopedia Britannica, under the head of gravitation, states that bodies fall to the earth with equal velocity, irrespective of material of which they are com-Upon this and the fact that there is a rule giving the velocity of falling bodies 161 feet for the first second, etc., I base my opinion. A. The law of falling bodies applies to bodies falling in vacuo. In the air a heavy body, ceteris paribus, falls faster than a light one. The Encyclopedia Britannica statement applies to a vacuum. The air offers very high and generally underestimated resistance to falling objects.

(6377) H. A. says: Can you give a good recipe for renewing the ribbons of typewriters with record or with copying ink of different colors ? A. Take vaseline (petrolatum) of high boiling point, melt it on a water bath or slow fire, and incorporate by constant stirring as much lamp black or powdered drop black as it will take up without becoming granular. If the vaseline remains in excess, the print is liable to have a greasy outline; if the color is in excess, the print will not be

best form of construction. A. Not to advantage. It requires a very long coil and involves loss of efficiency. 2. Your description of the magneto bell requires the L shaped piece which holds the armature to be a permanent magnet. Why is this necessary? A. To polarize the electro-magnet.

(6379) P. asks: 1. What advantages are claimed for metol as a developer? Could you give me a receipt for a developer containing it, and directions for use? One with which I can have most control over the plate, and which will keep when mixed for use, as I often want to develop one or two plates at a time. A. Metol is very energetic in its action, has remarkable staying qualities, keeps clear, does not stain the film in the shadows, and is easy to work. The following is a good

Water..... 1 oz,

Dissolve metol first, then sodium sulphite. If kept in a tightly corked bottle, the solution will remain colorless for two or three months. This is a stock solution. To develop a 4×5 plate, take 11/4 ounces of the above, add 3/4 ounce water and pour over the plate; if fully timed, the picture will gradually appear and rapidly gain density and detail. If the time has been short, add to the solu tion a few drops, four or five at first, of a carbonate of potash solution, prepared by dissolving one ounce of potash in three ounces of water. Keep adding a little at a time until the development proceeds rapidly enough to suit. The used developer should be kept in another tightly corked bottle. Eight 4×5 plates can be developed with these 2 ounces of developer. At end of that time development will be very slow and the developer will have a peculiar pungent odor when the nostrils are placed near it. This signifies that it is ready to be thrown away. 2. An easy way of regaining gold from waste toning solution. A. Gold may be recovered from waste toning solutions by adding a solution containing 32 grains of proto-sulphate of iron to every gallon of waste. The gold will be precipitated to the bottom. The clear liquid should be drawn off by a siphon and the residue poured upon a filtering paper and washed by pouring over it boiling water until the wash water no longer produces a precipitate with a solution of barium chloride. The gold is now redissolved with aqua regia and the solution slowly evaporated to dryness over a sand bath.

The yellow crystalline salt may then be dissolved in water to make up a fresh toning bath, or put in an airtight bottle. 3. What can I use to finish off the woodwork of a camera (tripod)? A. Fill the grain of the wood with a filler of appropriate color, and when dry give the tripod a flowing coat of shellac varnish.

(6380) C. K. H. asks: 1. What is considered the best material to put between the flooring to deaden sound? If felt or paper will do, what kind is the best? The floor is of a hall over a store and is to be sound proof, at the least expense. As parties are figuring on putting in an electric lighting system in the building, a plant of from 100 to 150 incandescent lights, and running same with a gasoline engine, will you give an idea of which is the best engine and dynamo for the purpose and the cost of same ? It will require from 10 to 15 horse power we are informed. A. A double floor with mortar between is probably the best sound insulator. For the address of engine and dynamo builders we refer you to our advertising columns. 2. Do you think it practicable to install an electric lighting plant for stores or hall and run same successfully with a gasoline engine? A. Gaso (6375) T. D. L. asks: Can a permanent line engines have been successfully used for electric light ing; we believe they have proved to be economical.

(6381) J. H. L. asks: 1. How shall I wind the fan motor described in Supplement, No. 767, so as to be suitable for a 100 volt circuit? A. We advise you not to try the motor on a current of such potential. You might wind with No. 26 wire and start with a rheostat. recognizing, of course, the apparent exceptions, such as 2. Where can I get instructions for making a voltmeter? A. See our Supplement, Nos. 556, 552, and 353, for descriptions of voltmeters. 3. Where can I get instructions heavy body will fall with greater velocity than a lighter for making a small fan motor of the alternating induction type? A. For alternating current motors, see our Supplement, Nos. 601, 653, 692, 717, and 944. These describe different motors, but do not give full working details.

> (6382) E. P. B. asks: 1 Is it feasible to make a storage battery for electric light work of one lead plate for a positive pole and a single zinc stick for a negative pole? A. This is hardly feasible. 2. State the amperes needed to charge 144 square inches (all told) of positive plate? A. 5 amperes. 3. What is the discharge for the above surface? A. 5 to 6 amperes. 4. Is asbestes a perfect insulator? A. Nething is a perfect insulator; dry asbestos is almost a perfect one.

> (6383) W. A. H. asks how to wind an induction coil, for use on a Hunning's transmitter. Crowfoot gravity batteries, three in number, to be used. I wish to know size and quantity of wire to be used on both primary and secondary. Which will give best results on Hunning's transmitters—open circuit or gravity cells? A. Wind primary to 1/2 ohm with No. 24 wire,

amount of material, to best adapt it to a battery of known amperage and veltage. A. The calculation cannot be made except approximately. The voltage to be developed must be known. Then the size of core and turns of wire must be based on the ratio of 108 lines of force cut per second for one volt produced. The great trouble is in the leakage coefficient for the lines of force.

(6387) F. X. W. asks: In regard to eight light dynamo in Supplement, No. 600, what alterations, if any, are necessary in winding, to change said dynamo into motor, and what horse power would it develop if used as a motor? A. Wind in shunt. The size of wire depends on the voltage. It would give about one-half horse power.

(6388) F. W. G. asks how many volumes a mixture of gas and air-10 to 1 (at ordinary pressure) makes on explosion. A. It depends on the composition of the gas; from 6 to 10 times the eriginal volume, but instantly going back to about the original volume,

(6389) C. R. B. asks: Howmuch rainfall a fall of 12 inches of snow would represent, and if the snowfall of a year is counted in making up the report of the annual rainfall ? A. If light snow, it would give a little over an inch of water. To get accurate results, the snow must be melted so as to give a determination for every snowfall. The value of the snow in water counts as rainfall,

(6390) P. E. A. asks: Can a person see the stars in broad daylight by descending into a deep well which is in darkness and looking up to the sky? How many feet down would a person have to descend? A. Stars can readily be seen in the day time from the bottom of deep wells and mines. A hundred or more feet down is sufficient. Stars of the 3d and 4th magnitude are about as small as thus can be seen.

(6391) W. D. asks: What is the process of cleaning sea shells to make them look bright and clean? A. Dark-colored organic matter on the outer surface is first removed by making a thick mixture of one part bleaching powder to two parts of water and seaking the shell therein. On removing wash and scrub it. Thick incrustations of lime must be picked off with a sharp-edged hammer or some similar tool, and then the shell must be dipped in boiling dilute hydrochloric acid. Valuable shells may have the face or pearly portion covered with shellac varnish, which may be removed with alcohol after the acid bath. For strong, heavy shells use 1 acid to 3 of water; for delicate shells use 1 part acid to 10 of water. Dip the shell for a second only, wash and examine; if not enough, give it a second dip. Hold it in wooden forceps or attach it to a stick in any way to serve as its handle. The important point is not to let the acid stay long on the shell. For local spots it may be applied with a brush.

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for natures at home and abroad, enable us to understand the laws and practice onto the continents, and to possess unequaled facilities for procuring patents everywhere. A symposis 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 22, 1895,

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

semains in excess, the print is liable to have a greasy suttine; if the color is in excess, the print will not be clear. Remove the mixture from the fire, and while it is cooling mix equal parts of petroleum, benzine, and rectified oil of turpernitie, in which dissolve the fatty in the first is cooling mix equal parts of petroleum, benzine, and rectified oil of turpernitie, in which dissolve the fatty in the first ink, introduced in small portions by constant agitation. The velatile solvents should be in such quantity that the fluid link is of the consistence of freeh oil paint. One section of copper on the zinc.

(6384) A. N. X. asks: To persons using the same tiving rooms with a victim of consumption, and such serveral layers of newspaper, then unwind the ribbon in such lengths as may be mest convention, and specially any ink should remain visible on the surface. For colored links use Prussian blue, real lead, etc., and especially any ink should remain visible on the surface.

Anilhe black.

Ye oz.

Pure alcohol.

15 "

Concentrated giycerine.

15 "

Dissolve the aniline black in the alcohol, and add the glycerine. In ka as before. The aniline inks containing glycerine are copying inks.

(6375) The F. R. Co. asks: 1. Is it possible to charge an electro-magnet with the secondary current from an induction coil? If so, please name the

newn	Car coupling, R. F. Ludlow (r). 11.464
et be	Car coupling R. F. Ludlow (r)
level- turns	Car render, street, J. J. Kennelly
force	Cardbeard cutting or scoring tool, Saltzkern & Nicolai. 532.822
great force.	Carpet sweeper stand, A. D. Linn. 533,012 Cartridge, lime, M. Settle. 532,933
ight	Nicolat 532,852 Carpet sweeper stand, A. D. Liftn 538,912 Cartridge, lime, M. Settle 532,963 Cash register, R. P. Thompsen 552,964 Cash register and indicator, T. Carney 552,762 Cash register and indicator, T. Carney 552,762 Cash register and indicator 552,762 Cash register 552,762 Cash
tions,	Chill, J. Matheus
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wire	Clamp. See Bracket clamp. Moulding flask clamp.
e-half	Clamp. See Bracket clamp. Meniding hask clamp. Clip. See Whiffletree clip. Clip. See Whiffletree clip. Clock striking mechanism, O. G. Ahlstrom. 532,936 Closet seat and feot rest, F. G. High. 532,255 Cloth helding and display reel, A. M. Guyten. 532,245 Clutch. electrically operated. T. H. Macdenald. 532,798 Cock, gauge. J. H. Grubb et al. 532,799 Coffee pet. W. N. Newcomb. 532,269 Combinatory T. Carney. 532,263 Collar and pad. combined inflatable horse, H. G. 532,834 Collar, horse, H. G. Stiebel, Jr. 532,834 Combination lock, J. Bois. 532,758 Communator brush, M. R. Hirsch. 533,838 Converter, A. W. Blibues. 532,838 Converting, A. W. Blibues. 532,838 Converting, A. W. Blibues. 532,838 Copper, refning, Nicholis & James. 532,839 Cotton press, C. Banister. 532,739 Coulding, See Car coupling. Repair coupling. Thill coupling. Proceduring exceleded Wein-
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n the iginal	Collar and pad, combined inflatable horse, H. G.
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ain-	Convertible chair, D. C. Breed. 553,802 Copper, refining, Nicholls & James. 532,809 Cotton press, C. Remeter 529,749
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sky?	Drill frame, portable, J. C. Jones. 532,881 Drill shoe, grain, N. M. Wig. 532,854
n the	Drills, supporting clamp for extension, G. A. Trafton
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3	Electrical conductor, E. D. Lewis
cess	Fan attachment, R. Taggart
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r and	Fence lock, B. F. Nelson. 532,875 Fence stry wife H Bush. 552,807
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is not	Bougar beating and regulating device, 522,963 Garbage cremation furnace, I. A. Knapp. 522,971 Garbage treating apparatus, F. J. Machalski. 522,779 Gas. apparatus for manufacturing water, A. G.
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ssun- re. A and all	Gelé separator, R. Blanchard. 532,895 Gelé separator, R. Blanchard. 532,943 Gelé upon composition reds, machine for fusing, C. R. Smith. 532,920 Geverner, centrifugal high speed, F. W. Spacke (r). 11,466 Grain binder butter, J. E. Mustard. 532,896 Grain storage building, metallic, E. O. Fallis. 532,874 Graphophone, disk, J. E. Wassenich. 532,816 Grinding or crushing machine, J. Prince. 533,918 Guns, cocking mechanism for breakdown, F. W. White, Jr. 532,931 Harness, C. A. Rahn. 532,906
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