Business and Personal.

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HINTS TO CORRESPONDENTS.
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Bu yers wishing to purchase any article not a divertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.
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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; an 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, 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? feathers, etc. Will you kindly throw some light on the matter, as one of our local scientists maintains that a heavy body will fall with greater velocity than a lighter for making a small fan motor of the alternating inducone. The Encyclopedia Britannica, under the head of tion type? A. For alternating current motors, see our gravitation, states that bodies fall to the earth with equal SUPPLEMENT, Nos. 601, 653, 692, 717, and 944. These develocity, irrespective of material of which they are composed. 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 re. cord 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 clear. Remove the mixture from the fire, and while it is cooling mix equal parts of petroleum, benzine, and rectified oil of turpentine, in which dissolve the fatty ink, introduced in small pertiens by constant agitation. The volatile solvents should be in such quantity that the fluid ink is of the consistence of fresh oil paint. One secret of success lies in the proper application of the ink to the ribbon. Wind the ribbon on a piece of cardboard, spread on a table several layers of newspaper, then unwind the ribbon in such lengths as may be most convenient, and lay it flat on the paper. Apply the ink, after agitation, by means of a soft brush, and rub it well into the interstices of the ribbon with a tooth brush. Hardly any ink should remain visible on the surface. For col pred inks use Prussian blue, red lead, etc., and especially the aniline colors.

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 fermula:

Metel......5 Sodium sulphite crystals C. P......25 5 grains. 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 1¼ ounces of the above, add 34 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 discolving 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 vellow 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 A. See our SUPPLEMENT, Nos. 556, 552, and 353, for descriptions of voltmeters. 3. Where can I get instructions scribe 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. Nothing 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, secondary to 80 ohms with No. 36 wire batteries; the Crowfoots will tend to local action by deposition of copper on the zinc. (6384) A. N. X. asks: To persons using the same living rooms with a victim of consumption, and where cuspidors are used indiscriminately, is there any danger from contagion ? A. There is no doubt that the Bex Bra Bra practice is dangerous. Use individual cuspidors and place disinfectants, such as zinc sulphate, in them. See SCIENTIFIC AMERICAN SUPPLEMENT, Nos. 782, 824, 959, Bra and 973, for articles on consumption, its cure, prevention.

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.]

Boi Bel: Boo

Bey Bey

	A	77
	amount of material, to best adapt it to a battery of known	Car coupling, R. F. Ludlow (r)
	amperage and voltage. A. The calculation cannot be made except approximately. The voltage to be devel-	Car fender, Reynelds & Center
ĺ	oped must be known. Then the size of core and turns	Car fender, street, J. J. Kennelly
	of wire must be based \bullet n the ratio of 10 ⁸ lines of force cut per second for one volt produced. The great	Cardbeard cutting or scoring tool, Saltzkorn & Nicolal
	trouble is in the leakage coefficient for the lines of force.	Carbon Structure 532.822 Carpet sweeper stane, A. D. Linn. 533.932 Carping e, line, M. Settle. 532.932 Cash register, R. P. Thompson. 532.932 Cash register and indicator, T. Carney. 532.932 Chair. 532.932 Cash register and indicator, T. Carney. 532.762 Chair. 532.762
l	(6387) F. X. W. asks : In regard to eight	Cash register and indicator, T. Carney
	light dynamo in SUPPLEMENT, No. 600, what alterations, if any, are necessary in winding, to change said dynamo	Chill J Mathema 532.88
	into motor, and what horse power would it develop if	Cigar casing, N. Schwab. 532.01 Cistern, H. P. Schaefer. 532.01 Cistern would, I. W. Simpsen. 532.01 Clamp, See Bracket clamp, Moulding flask
	used as a motor ? A. Wind in shunt. The size of wire	clamp. See Bracket clamp. Moulding hask clamp. Clip. See Whiffletree clip.
	depends on the voltage. It would give about one-half horse power.	clamp. Clip. See Whiffletree clip. Clock striking mechanism, O. G. Ahlstrom
	(6388) F. W. G. asks how many vol-	Cleth holding and display reel, A. M. Guyton 532,95 Clutch. electrically operated, T. H. Macdonald 532,79
	umes a mixture of gas and air-10 to 1 (at ordinary	Confee pot, W. W. Newcomb
	pressure) makes on explosion. A. It depends on the composition of the gas; from 6 to 10 times the original	Coin displayer, T. Carney. 532,76 Collar and pad, cowbined inflatable herse, H. G. G. Stiebel, Jr. G. Stiebel, Jr. 532,83 Combination lock, J. Bois. 532,83 Combination lock, J. Bois. 532,83 Converter, A. W. Billings. 532,83 Convertiple chair, D. C. Breed. 533,83 Coton press, C. Banster. 532,83 Cotton press, C. Banster. 532,75 Cotton press, C. Banster. 532,75 Coupling. See Car coupling. Repair coupling. 532,75 Thill coupling. Thill coupling.
l	volume, but instantly going back to about the original	Collar, horse, H. G. Stiebel, Jr
1	volume.	Converter, A. W. Billings. 532,83 Converter, A. W. Billings. 532,86 Converter, A. W. Billings. 532,86
	(6389) C. R. B. asks: How much rain- fall a fall of 12 inches of snow would represent, and if	Copper, refining, Nicholls & James
	the snowfall of a year is counted in making up the report	Cotton press, Banister & Hollingsworth
	of the annual rainfall ? A. If light snow, it would give a little over an inch of water. To get accurate results,	Curves device for producing evcloidal Wain-
	the snow must be melted so as to give a determination	wight & Morrison Cushion bolder, A. L. Smith
	for every snowfall. The value of the snow in water counts as rainfall,	Cutter. See Feel cutter. Pipe cutter. Cutter bar, J. A. Knisley
1	(6390) P. E. A. asks: Can a person see	Display apparatus cloatricel I [Kotchop 529 7
1	the stars in broad daylight by descending into a deep	Deer spirar apparadus, et center, J. D. Referent
	well which is in darkness and looking up to the sky?	screen, W. H. & W. J. Clark
	How many feet down would a person have to descend? A. Stars can readily be seen in the day time from the	Drills, supporting clamp for extension, G. A. Trafton. 532.84
	bottom of deep wells and mines. A hundred or more	Electric machine regulator, dynamo, L. Bell
l	feet down is sufficient. Stars of the 3d and 4th magni- tude are about as small as thus can be seen.	Tratient and the regulator dynamo, L. Bell. 522, M Electric machine regulator dynamo, L. Bell. 532, M Electric meter, E. Thomson
	(6391) W. D. asks: What is the process	Figure of the second of the second se
	of cleaning sea shells to make them look bright and	Fan attacument, n. Taggart
	clean? A. Dark-colored organic matter on the outer surface is first removed by making a thick mixture of	Fan motor, elec ric J. L. Ketcher
	surface is first removed by making a thick mixture of one part bleaching powder to two parts of water and	Fence lock, B. F. Nelson 532,80 Fence stay, wire, H. Buck 532,70
	soaking the shell therein. \bullet n removing wash and scrub	Fence wire tightener, H. W. Norton
	it. Thick incrustations of lime must be picked off with a sharp-edged hammer or some similar tool, and then the	Filme machine, J. Riddell
	shell must be dipped in boiling dilute hydrochloric acid.	Fire extinguishers, valve for automatic, F. Gray. 552,87 Fishing net clusing and hauling-in apparatus H
	Valuable shells may have the face or pearly portion cov- ered with shellac varnish, which may be removed with	Flashlight device. T. H. Macdonald
	alcohol after the acid bath. For strong, heavy shells	Fusing valve for urnals, w. Scott
	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,	Furnace. See Automatic stoking furnace. Blast
	wash and examine; if not enough, give it a second dip.	furnace. Cremation furnace. Furnace air heating and regulating device, C. Bougier
	Hold it in wooden forceps or attach it to a stick in any way to serve as its handle. The important point is not	Galvanic battery, C. B. Schoenmehl 532,82
	to let the acid stay long on the shell. For local spots it	
	may be applied with a brush.	Glasgow
	TO INVENTORS.	Gem setting, E. Schill
		Gas. apparatus 107 manufacturing water, A. G. 532,77 Gas.gew
	An experience of nearly fifty years and the preparation of more than one bundred thousand applications for patents at home and abread, enable us to understand the	Gold or silver from ores, extracting, J. C. Mont- gemerie
	laws and practice enbeth continents, and to possess un- equaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all	Gold separater, R. Blanchard, 532,89 Gold separater, R. Blanchard, 532,99 Gold upen compession reds, machine fer fusing, C. R. Smith, 532,92 Gaverner, centrifueal high speed F. W.
	foreign countries may be had on application, and persons	Governor, centrifugal high speed, F. W. Spacke (r)
1	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-	Grain storage bunding, metanic, E. O. Fams Joc.
	tensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broad-	Graphephone, disk, J. E. Wassenich
	way, New York.	White, Jr
1	INDEX OF INVENTIONS	Harness, C. A. Rahn Harvester, corn, W. T. Harris
I	TUDER OF INVENTIONS	ing H. Lettler 532.8
	For which Letters Patent of the	Heater. See Hot water heater. Steam or hot water heater.
l	United States were Granted	Hoisting and conveying apparatus, H. B. Tefft 532,83 Hook. See Meat or other hook. Ring book. Horseshoe calk sbarpener, E. C. Lainson
1	January 22, 1895,	Hot water boiler, M. Furlong
		Hot water heater, H. K. Taffmage
	AND EACH BEARING THAT DATE.	berg
	[See note at end of list about copies of these patents.]	berg 532,97 Indicator. See Lamp filling indicator. Insect destroyer, Morrill & Morley. 532,99 Insect trap stand, W. L. Peeler. 533,0
	Adjustable table, Shear & Quinlan	Insulators screw press for forming S Kribe 539.9
	Adjustable table, Shear & Quinlan	Knitting machine, circular, C. E. Kelley
	Armature bars for dynamo-electric machines, apparatus for bending. H. Geisenhaner 529 772	Knitting machine, feeding attachment, J. D. Hemphill
	Armature bars for dynamo-electric machines, apparatus for bending, H. Geisenhoner	A month in the second s
2	meters, H. Lemp	Lamp, incandescent, M. H. Branin
)	Atomizer, T. J Holmes	Lacung, metaille, T. L. Banks
	Attomater, J. Rosett Automatic stoking furnace, I. Bowe	Leek C A Frichsen 5330
t	Dall. See Dewillig Dall.	Luca, J. E. Mitchellin
	Barrels, kegs, etc., macune for making, H. Camp-	Lecomotive boiler, J. T. Connelly
1	bell	Kwiatkowski
	Bearing for screw holsts, adjustable thrust, B. L. Tequet	Mail box, electric alarm, E. C. T. Belding
n	Bearing of a screw holts, adjustable thrust, B. L. 52.99 Bearing for screw holts, adjustable thrust, B. L. 52.99 Bearing for a screw holts, C. K. K. Wangersheim	Lubi feator, H. Shins, T. C. T. Belding, 5238 Mail bex, electric alarm, E. C. T. Belding, 5238 Measure register, grain, J. A. McFayden, 5232 Measuring apparatus, E. Von Lange, 5334 Mechanical movement, J. Raout, 5334 Mechanical movement, J. Raout, 5334 Mechanical movement, J. Raout, 5334
y	Bicycle dynames, frictional driving gear fer, E. Tilmann. 532,844 Bicycle rim and tire L. A. Erickean 532,844	Mechanical movement, J. Bacon 532,9 Metal cutting machine, shape, L. S. Pfouts
2,	Bicycle rim and tire, L. A. Erickson, 532,56 Biast furnace, P. C. Reed, 533,56 Bind fastener, J. McCartby, 532,96 Bind fastener, J. McCartby, 532,96 Bind fastener, J. McCartby, 532,97 Boiler, See Hot water boiler, Locomotive beiler, Steam beiler, 552,960	Meter. See Electric meter. Mill. See Gig mill. Mine tran deer. H. Keyes. 532.8
it v	Blind stop, C. H. Kugler	Mine trap door, H. Keyes. 532.8 Mining tool, F. Hardy. 532.9 Mirror, metal framed. A. Wanner, Jr. 532.9
5	boiler. See Hot water boiler. Locomotive	Mould. See Cistern mould.

Aniline black	1/2 oz.
Pure alcohol.	15 "
Concentrated glycerine	15 **
Dissolve the aniline black in the alcoho	ol, and add the

glycerine. Ink as before. The aniline inks containing glycerine are copying inks.

(6378) 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 a primary spark coil to get the best results with the least Car

Bri Br● (6385) S. J. R. asks: 1 How can I make a good but in expensive microphone? A. See our SUP PLEMENT, No. 163. 2. I have two Samson batteries on a burglar alarm system. Before retiring last night I tested the alarm and it worked all right. About an hour after I heard a noise resembling an explosion, and opening the closet, in which I keep the batteries, I found that one of But Cal Cal Cal Cal Can Can Can them had burst all to pieces, and the fluid was thrown all over everything. A. Possibly the glass battery jar was badly annealed. This or some accident throwing it down are the only causes assignable.

(6386) W. H. B. asks how to proportion

a fastener, J. McCarthy	Mille trap (101, H. Keyes	500 700
d stop, C. H. Kugler 532,974	Mining tool. F. Hardy	032,100
er. See Hot water boiler. Locomotive	Mirror, metal framed. A. Wanner, Jr	532,948
oiler. Steam boiler.	Mould. See Cistern mould.	
er feeder, J. Austin	Moulding flask clamp, Van Court & Madeira	532,847
er stays, making. S. A. Pratt 532,816	Motion, intermittent grip device for transmit-	
cutter head, F. H. Richards 532.818	ting, J. J. O'Neill	532,900
k, self-reckoning pass, U. G. & W. F. Beck 533.029	Motor. See Fan motor.	
ling ball, F. D. Hunteen 533,011	Mouse trap, H. Obermeyer	532,986
ling pin, F. G. Dokkenwadel 532,871	Multicylinder engine, L. C. Worron	
. See Mail box. Packing box. Signal box.	Musical chart, R. H. Ingraham	
trimming machine, R. Schleicher 532,915	Nut lock, Davis & Bowers	532,771
cket clamp, A. A. Ball. Jr 532,748	Ore concentrator, J. J. Cranmer	
ke. See Air brake, Car brake. Railway train	Ores or other substances, means for concentrat-	
orake.	ing, Hammond & Gordon	522,956
kes, automatic disengaging device for atmos-	Packing and storing vessel, A. Burson	533.033
pheric, J. Ackermann 532,745	Packing box, G. E. Grimm	532.954
ast supporter, S. Bergheim 532,756	Packing box or crate, J. S. & C. W. Reid	532,991
ek cutting machine, H. R. & J. Van Eyck 532,927	Paddlewheel, feathering, C. A. Long	532,887
oches, jewelry, etc., fastening and attaching levice for, T. Grainger	Padlock, master key, J. Roche (r)	11,465
levice for, T. Grainger 533,018	Pan. See Saucepan.	
sh holder, magnetic, J. C. Henry	Panels, construction of curved and veneered, H. Widdicomb Paper making machine, R. W. Moncrieff	
kle, W. A. O Bar	H. Widdicomb	532,932
kle, suspender, J. McKenzie, Jr 532.806	Paper making machine, R. W. Moncrieff	532,803
et proof shields, material for A. H. J. Appelt 532.857	Pen, drawing, V. Berdelle	227.122
ng, barrel, M. Stangl	Photographic print washer, J. W. C. Floyd	532,775
ton setting machine, J. C. Stevens 532.833	Pianoforte action, A. T. Rousseau	532,912
ton, spring, F. Giles	Pile fabrics, ornamenting selved ge of, P. A. Men-	
inet for holding money, coupons, pass-books, etc., U. G. & W. F. Beck	gers Pipe cutter, W. W. Tucker	532,801
ete., U. G. & W. F. Beck 533,030	Pipe cutter, W. W. Tucker	532,845
le grip. M. F. Rebinsen	Pivoted can. L. O. Brown	532,867
cining machine, W. S. Pierce 532,903	Plane, bench, Traut & Schade	532,842
endar. time, H. H. Norrington	Planter, combined corn and potato, Colburn a	
concreter connection F B Cook 532769	('heate	532,767
s. See Pivoted can. s. etc., closure for, J. Rau	Pneumatic transfer tube system, F. W. Jones	532,966
s, etc., closure for, J. Rau 532,990	Percelain kiln. E. M. C. Gendeuin	533,007
brake () R Elliott 53305	Pot, See Conce Dot.	
brake railway C. Matthews	Prescription stand, R. S. Vitt.	532,848
	Press. See Cotton press. Soap press.	
520020	Descure acquilater fuid () I Dection	520 750