

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 This is for our information and not for publication.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.

his turn.

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

the same.

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.

(8314) R. V. asks: 1. If you know the voltage and amperage of a battery how do you find the watt output? A. Multiply the volts by the amperes. 2. Are the field and armature of a motor common or magnet wire? Could magnet wire be used? Should the primaries and secondaries of an induction coil be common or magnet wire? Could magnet wire be used? A. Magnet wire is used. Magnet wire is simply ordinary copper wire covered with one or two layers of cotton thread so that the energy which it loses in each swing bethe wire of one turn or layer shall not touch the wire of the adjacent turns or layers. In other words, magnet wire is insulated wire; ing ball is by the conditions of the question, common wire is uninsulated. Insulated wire freed from. Hence it will move forever withis used so that the electricity must go through the whole length of the coil round and round, and not pass across to the other end of the coil directly.

(8315) G. H. DeL.: I wish to kill a number of pole-cats by means of electricity, without damaging the fur. I have a 1,000 watt alternating current dynamo with 8-pole field and 8-pole armature, but do not have any idea of its practical value for this purpose. The floor upon which the animals are driven is finished off with strips of zinc 4 inches wide and about 1/2 inch apart, being properly insulated from each other, each alternating strip being connected for positive and negative poles. If this dynamo could be re-wound to do the work effectively, what would be your idea as to field and armature winding, also speed required, and what would be the minimum current required to produce the desired result? A. It is not probable that a high voltage is required to kill a skunk. The dyname may be all right for this work as it is. We think the zincs should be wet with an alkali solution, caustic soda or potash, before the animals are driven upon them. This will insure good contact between their feet and the Then turn the current on by a switch and observe the result. We have no idea whatever as to the current required.

(8316) E. D. S. writes: In your issue of July 6, on page 12, "Notes and Queries," No. 8250. W. M. R. says he put a slotted core armature in the 8-light dynamo, and succeeded in getting 50 volts at a speed of 1,660 per minute as against 2,200 for the armature as usually constructed. To an amateur like myself it is interesting to note the difference in speed due to the improved magnetic circuit, and thinking there may be others interested in this dynamo I would describe a change I made in the magnets of this machine with very good results. The armature was made exactly to size, and the iron wire core was used. The field was the inverted horseshoe type with circular cores 61/2 inches long, 4 inches in diameter, with quite stout pole-pieces and yoke, and of soft cast iron. The fields were shunt wound and took % of an ampere at 55 volts. The machine ran cool and sparkless at full load, and with volts at 55 our speed was 1,250 per minute, or nearly 1,000 slower than the speed for the other magnets. A. The change in the machine described by our correspondent makes a very different machine from the original machine. His circular core 4 inches in diameter contains over 12.5 square inches of iron, while the core in the original design contained about 8 inches of iron. Of course the voltage is greatly raised by the change, or, in other words, the original voltage can be produced by about two-thirds the speed. If he ran his machine up to full speed he would have between 80 and 100 volts.

(8317) C. J. M. asks: 1. Can you tell would run a fan? A. Correspond with any of our advertisers who supply fans and motors. 2. Are boots or shoes made out of India rubber? I mean the soft pliable sheet rubber like that used for patching bicycle tires. A. Rubber overshoes were first made of the pure gum. This was fifty or more years ago, before the art of vulcanizing the rubber was invented by years again, but the public did not want them and they were not a success. They hind the feet too closely and stretch too easily; they are not durable. The kind ordinarily used are much better in every way. 3. What causes the green stuff that forms in a creek or any slow-running water. It will form on a board do you call it? I have seen it forming on a ing takes place when standing.

roof where condensed steam runs down. The green slime is a plant, or rather millions of plants, which grow from other plants just as higher plants do: only the method of their reproduction is entirely unlike that of the higher plants. The germ of the plant must have been taken to the roof by the wind or in some other manner and there have grown in the warm water condensed from the steam.

(8318) W. J. B. asks: Suppose a hole through the earth and its center of gravita-Eliminating all friction and resistance to the passage of a ball dropped into this hole, the only force acting being that of gravitation, will the ball pass beyond the center of gravitation? In what manner will it come to rest, if at all? A. The ball will fall with an increasing velocity till it reaches the center of the earth. At that point it will have its greatest velocity and momentum. stop there. It will pass beyond the center of the earth as far as it has fallen to reach it; that is, it will go through the earth to the other side and then fall back to its place of starting. This it will continue to do forever under the conditions imposed. tion is no different from that of the pendulum of a clock, which oscillates under gravity alone as readily as any other falling body. pendulum is a falling body, exactly like the supposed ball dropped into the earth. It falls to its lowest position and rises as far beyond it as it has fallen; just like the ball dropped into the earth. The mechanism of the clock is simply designed to restore to the pendulum cause of the friction of the air and other frictions in its motion. These the freely fallout loss of energy

(8319) H. G. M. asks: 1. Would like to know a simple method of securing copper plates to carbon (solid), e. g. A. Electroplate the carbons with copper, and then solder the copper plates to the electroplating. A firm connection will be made. 2. How are copper connections secured to carbon brushes? A. The carbon brushes are covered with copper by electroplating and the contact is made by a set screw pressing a plate of copper against the carbon brush. 3. Can this be done by any other than an electrolytic process? satisfactorily.

(8320) J. W. A. proposes these problems: 1. A contracts to furnish B electric motive power 11 hours per day, 26 days per month, at \$2 per month per horse power, be measured by a Thompson recording meter, sold by General Electric Company, giving readings on five dials in watt-hours. meter readings to be multiplied by a constant B installs a 10 horse power motor. Kindly take an imaginary reading and show the method of ascertaining the number of horse power to be charged for at end of first month. A. Eleven hours per day for 26 days are 286 hours. One horse power hour is 746 watt-hours, since 746 watts are 1 electrical horse power. To reduce a reading of the watt-meter in watt-hours to horse power per month: Multiply the meter reading by the constant 4 and divide by 746. The quotient is horse power hours. Divide this quotient by 286 and you have the horse power per month. 2. Please say which price is more advantageous to A (the seller of power), \$2 per month per horse power or 2 cents per 1,000 watts. A. Two cents per 1,000 watts is a higher price than \$2 per month per horse power based upon 11 hours per day for 26 days

(8321) F. K. S. asks: 1. On the use of storage cells what is meant by sulphating, buckling and internal short circuiting? A. Sulphating is the formation of sulphate of lead by the action of sulphuric acid upon the lead of the plates. This wastes the active material. Buckling is the bending of the plates by the charging and discharging, and is due to the fact that the material occupies a different amount of space in its different forms as oxide or peroxide of lead. The buckling sometimes bends the plates to such an extent that the positive and negative plates touch each other and produce a short circuit, through which the electric current can pass without going through the external line. You should have a book on the storage cell, such mail. 2. Is it necessary to use a voltmeter, ammeter and polarity indicator? A. Yes, to observe the condition of the battery and to know when recharging is necessary, or when the cells are fully charged. 3. Is it advisable with regard to the running expenses to use me where a spring motor can be got, one that them? A. Yes, if you have a good and cheap current for recharging. 4. About what would be the cost of charging a 15 ampere hour battery of 6 cells? A. That depends upon the answer to the last question. 5. Which make would you advise me to get. Can you tell me anything of a volt ammeter? A. There is no advertising done in this column. There are reliable dealers who can advise you regarding Goodyear. They have been made within a few their goods. The firm you mention deals mostly with schools and this class of trade requires good goods. 6. Is it necessary to use the cells immediately after charging, and to charge immediately after discharging, and can they be used on an open circuit, i. e., once in a while, or are they to be used on a closed circuit until discharged. A. No. They can or stone or anything water runs on, and what stand on open circuit for a time. But sulphat-

(8322) H. C. S. asks: 1. Wishing to Automobiles, starting device for oil or gasconstruct an experimental wireless telegraph outfit, if possible, I would like to know what is the shortest length of spark that could be used to illustrate the principle, having your instruments the length of an ordinary room apart? Also if you have published a Supple-MENT or can recommend a book containing a description of such an instrument? A. A coil giving quarter-inch spark will send a message much farther than the length of a room. coil which will fill the requirements is described in Supplement No. 160, price ten cents. There is no description of the apparatus for wireless telegraphy which gives dimensions and drawings to scale so that one could make it from the plans. Of course, there are reasons for this. These inventions are new and those who have developed the instruments have patented them and are not anxious to have others work in the same line. We have published descriptions of coherers and coils, etc., of the various parts, from time to time, such that one who had mechanical skill could make these parts from the descriptions and pictures without scale drawings and dimensions. can send you SUPPLEMENTS Nos. 1318, 1319, 1320, price ten cents each. These contain a series of articles on "Electric Waves," in which a good description of a coherer is given, as well as many hints for making the various parts of an outfit. Fahie's "History of Wireless Telegraphy," price \$2 by mail, is valuable. 2. Have you a SUPPLEMENT or do you know of a book showing the construction of a liquid air machine for amateurs? A. Sloane's "Liquid Air," price \$2.50. We must say that the making of a liquid air apparatus is hardly a task for an amateur. 3. Name books or SUPPLEMENTS for constructing a voltmeter from 0 to 120 and an ammeter from 0 to 15. A. SUPPLEMENT No. 1215, price ten cents, contains exactly what you request.

(8323) W. E. S. asks: 1. Will a dynamo furnish the same spark for igniting a gasolene engine when the circuit is broken as the batteries will? A. Yes. 2. Can a dynamo be used in starting the engine without batteries? A. No, unless you have other power for running the dynamo than that of the gas engine. 3. Can a dynamo be used for igniting the engine and for lighting purposes also? A. A dynamo for igniting a charge in a gas engine is usually a small machine built for this special work. It is not adapted for lighting purposes. Current from a lighting plant could be used to ignite the gas for a gas engine.

NEW BOOKS, ETC.

Laboratory Instructions in General CHEMISTRY. Arranged by Ernest A. Congdon, Ph. D., F. C. S. Philadelphia: P. Blakiston's Son & Co. 1901. Pp. 110. Price \$1.

The present work is intended to Illustrate a course of study in general chemistry. Much of the material is original, having been developed in the course of ten years' experience in laboratory teaching, while those portions taken from other sources have been modified and added to so that they might better meet the wants of students. The book is interleaved.

LES INDUSTRIES CÉRAMIQUES. E. S. Auscher et Ch. Quillard. Encyclopedie Industrielle. Paris: J. B. Bailliere & Fils. 1901. 16mo. Pp. 280. Price \$1.25.

The authors have produced a book which deserves to take its place in the literature of ceramic industries. They have given formulas which have been tested by long experience, and have reduced the number of these formulas as far as possible in order that the work might not become too complex. The Illustrations in the book, although not very excellent examples of engraving, are nevertheless clear enough for the purpose of the technical reader.

Das Gasglühlicht. Die Fabrikation der Glühneke ("Strümpfe"). Von Prof. Dr. I. Castellani, Autroisirte Uebersetzung und Bearbeitung von Dr. M. L. Baczewski. Wien: A. Hartleben's Verlag. 1901. Pp. 121.

It has been the author's purpose to give a fairly complete account of the manufacture of the well-known incandescent gas light mantles. He has, therefore, carefully and clearly described each step in the process of making the mantles, the properties of the materials which enter into that process and the source of supply whence these materials can be obtained. The work is the result of the author's long experience in the making of

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

August 6, 1001.

AND EACH BEARING THAT DATE.

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

| Air, apparatus for refrigeration of atmos- | o - |
|--|----------------|
| pheric, O. P. Ostergren | 680.0 |
| Air brake system, N. A. Christensen | 679.9 |
| Air brake system, N. A. Christensen Air regenerating and purifying apparatus, Desgrez & Balthazard | 0,0,0 |
| Desgrez & Balthazard | 680,0 |
| Alkali metals, electrolyzing salts of, Allen & Moore | 600 1 |
| Animal trap, C. Bloker | 680.1 |
| minut stup, or Dioactions | 000,1 |

| Automobiles, starting device for oil or gas- | |
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| Automobiles, starting device for oil or gas- oline engines for, J. P. & J. N. Wright | 680 ,103 |
| Bale of fibrous material, J. T. Cowley | 680,1 63 679,831 |
| Bale staying device, J. T. Cowley | 679,845 679,832 |
| Bale tie or band, W. M. Holmes Baling fibrous material, apparatus for, J. | 679,844 |
| T. Cowley | 679,833 680,164 |
| Baling machine, R. S. Munger. Baling press, P. K. Dederick. Band cutter and self feeder, automatic, J. N. Cole Bandaging table, B. C. Miller. Bank, portable savings, J. E. Ingram. Barrel, O. H. P. Cornell. Barrel, G. M. Tilghman. Basin, wash, W. Bunting, Jr. Basket making machine, E. Horton. Bearing for disk drills, C. Moehring. Bed, folding, T. Hauser. Beehive, R. Decroly. Belt, S. J. Prokesch. Belt placer, J. S. Montgomery et al. Bicycle, E. Koch. Bicycle friction clutch, A. P. Morrow. Micycle saddle clip, C. R. Reid. Bicycle stand, H. Rosskopf. Bicycle support, J. E. Sweet. Bicycles, etc., alarm apparatus for, Blomster & Gustafson. Binder, loose leaf, L. G. Schult. Blast furnace, J. W. Nesmith (reissue). Bobbin holding socket, J. Brown. | 679,732 |
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| C. Ely | 679,734 |
| E | 680,044 679,741 |
| Books, newspapers, etc., holder for, J. C. | 680,080 |
| Bottle, non-refillabe, F. J. Abate | 679,931 |
| Bottle, non-realiable, H. K. Prosser Bottle or jar closures, device for removing, | 680,073 |
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| lar, C. C. King | 680,047 |
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| Cans, machine for straightening empty tin, J. W. McCall Candelabrum, J. T. O'Reilly Car and grain door, combined, J. B. Mock- ridge | 679,772 |
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| Car vestibule, Hodges & Chick | 680,146 |
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