

under different pressures? I find it stated that 1 cubic inch of water at 70° Fah. under the ordinary atmospheric pressure weighs 0.578 ounce.

(5612) E. G. R. asks: 1. Will the No. 2 water motor described in SCIENTIFIC AMERICAN of October 14, page 244, run the hand power dynamo described in "Experimental Science"?

(5613) F. E. K. asks: 1. Can a plastered wall in a house be blackened so as to be used as a crayon board? If so, how can I prepare a paint to be used to paint it?

(5614) H. L. B. asks: 1. What is the safe carrying capacity in amperes of a copper wire, No. 14 gauge, B. and S. and how is the carrying capacity of any wire to be found?

(5615) A. E. N. writes: In the SCIENTIFIC AMERICAN SUPPLEMENTS already received from you I find a Wimshurst electric machine (glass friction) advised for the generation of ozone by electricity.

(5616) W. F. R. writes: 1. Have you any literature relating to the manufacture of copper oxide plates as used in Edison Lalande battery?

(5617) T. G. S.—The photograph sent by you shows a fresh water lizard, probably Triton tigrinus, Green.

(5618) C. C. N. writes: How many storage batteries of a given size would it take to run a 40 horse power motor?

(5619) A. R. K. asks: 1. What do electricians call a multiplier, and in what capacity is it used?

(5620) H. S. S. asks for (1) a recipe for a tin electroplating solution for plating on copper. A. We quote the following from the "Scientific American Cyclopaedia of Receipts, Notes, and Queries":

Please describe the machine Nikola Tesla uses to produce high alternating currents. What is its armature made like? A. We refer you to SCIENTIFIC AMERICAN, Nos. 9, 11, and 13, vol. 66; also SUPPLEMENT, Nos. 792, 902, 831, 692, 847, 855.

(5621) A. H. writes: 1. One of my zincs of a Daniell gravity cell has been almost destroyed, while the other two are not affected in the least.

(5622) N. T. asks: Of the various kinds of batteries, such as storage cell and plunger, which is the strongest?

(5623) E. A. E. writes: I would like to build an induction coil that will produce a 4 or 5 inch spark. Can I follow directions as given in SUPPLEMENT, No. 160, and are there any changes I can make that will be a benefit to it?

TO INVENTORS.

An experience of forty-four 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 unequalled facilities for procuring patents every where.

INDEX OF INVENTIONS.

For which Letters Patent of the United States were Granted December 12, 1893, AND EACH BEARING THAT DATE.

Table listing inventions with names like 'Adding machine, F. Shapisey', 'Advertising device, J. Harrison', and others.

Table listing inventions with names like 'Butter moulding machine, J. Tobin', 'Cable road signal, E. W. Edwards', 'Camera, See Aerial camera', and others.

Table listing inventions with names like 'Horses to vehicles, device for attaching, M. T. Hancock', 'Horseshoe, compound, M. L. Chamberlain', and others.