

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion; about eight words to a line.

Marine Iron Works. Chicago. Catalogue free. For logging engines. J. S. Mundy, Newark, N. J.

Screw machines, milling machines, and drill presses. The Garvin Mach. Co., Laight and Canal Sts., New York.

Emerson, Smith & Co., Ltd., Beaver Falls, Pa., will send Sawyer's Hand Book on Circulars and Band Saws free to any address.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins.

Whereas, the copartnership heretofore existing in the City and State of New York between Orson D. Munn and Alfred E. Beach, under the copartnership name of Munn & Co., and having its principal place of business at No. 361 Broadway, in the City and State of New York, has been dissolved by the death of Alfred E. Beach on January 1, 1896; and

Whereas, the said copartnership had business relations with foreign countries and transacted business in the State of New York for a period of five years and upward; and

Whereas, I, Orson D. Munn, the surviving copartner, am desirous to continue the business conducted by the said copartnership and to continue the use of the name of Munn & Co.

Now, I, Orson D. Munn, do hereby certify and declare that I am the person dealing under such name of Munn & Co., and that my place of abode is 14 East Twenty-second Street, City of New York, and that my principal place of business is at No. 361 Broadway, in the City and State of New York.

(Signed) ORSON D. MUNN. [L.S.] In presence of A. A. HOPKINS.

City and County of New York, as: On this 6th day of January, in the year 1896, before me personally came Orson D. Munn, to me known to be the individual described in and who executed the foregoing instrument and acknowledged to me that he executed the same for the purposes therein mentioned.

(Signed) A. A. HOPKINS, Notary Public, Kings County, New York.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

Notes & Queries

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 This is for our information and not for publication.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.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted January 21, 1896, AND EACH BEARING THAT DATE.

Table of inventions with patent numbers. Includes items like 'Adding and recording machine, Burrhead & Marshman', 'Aeroplane, J. S. Stephenson', 'Air brake, J. S. Custer', etc.

gradations of light and shade are thus produced on the glass. In the apparatus used air rises through a curved tube, carrying the sand up with it, which is thrown into the air tube by an endless belt of scoops arranged in the lower part of the angular box.

(6706) J. W. B. asks how to prevent a crack in a piece of metal from extending. A crack in a piece of metal is prevented from extending further by the well known means of drilling a hole where the rent ends; but when the hole is not bored on just that spot, the crack is apt to continue beyond the hole.

(6707) A. C. writes: I wish to obtain full information about electric furnaces, acetylene gas, carbide of calcium, the reactions and the pressure required to reduce the gas to liquid form. A. We refer you to the following SUPPLEMENTS, which give very exhaustive information and the most recent reliable data concerning acetylene and calcium carbide.

(6708) C. S., Utah, asks: Which is the best method to temper and magnetize steel rods 4 inches to 6 inches long and from 3/8 to 1/2 inch in diameter? A. Any steel bars, rods, or drawn steel wire that will harden may be used for magnets.

(6709) H. W. P. wants to know how to make gelatine sheets. A. Dissolve fine glue or isinglass in water, so that the solution when cold may be consistent. Pour it hot on a plate of glass (previously warmed with steam and slightly greased) fitted in a metallic frame whose edges are just as high as the water should be thick.

(6710) H. R. T. asks for directions for preserving the natural colors of flowers. A recent improved receipt for preserving plants with their natural colors is to dissolve 1 pt. salicylic acid in 600 parts alcohol, heat the solution up to boiling point in an evaporating vessel and draw the plants slowly through it.

TO INVENTORS.

An experience of nearly fifty 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 everywhere.

Table of inventions with patent numbers. Includes items like 'Boots or shoes, inner sole for, Prehle & Worth', 'Brace, See Shelf bracket', 'Bracket, See Shelf bracket', etc.

Table of inventions with patent numbers. Includes items like 'Propulsion, marine, R. Bbett', 'Pulley facing machine, B. F. Barnes', 'Pump, A. F. Abrahamson', etc.

DESIGNS.

Table of designs with patent numbers. Includes items like 'Rades, C. B. Wilkinson', 'Bicycle frame, F. T. Fowler', 'Bicycle handle bar, F. Gendron', etc.

TRADE MARKS.

Table of trade marks with patent numbers. Includes items like 'Bicycles, Premier Cycle Manufacturing Company', 'Bicycles, tricycles, delivery carriers and their parts and attachments', etc.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway New York.