

NEW BOOKS, ETC.

DIE FLUGMASCHINEN. Theorie und Praxis. Berechnung der Drachenflieger und Schraubenflieger. Von Georg Wellner, Maschineningenieur, Hofrat, Professor i. R. Mit 100 Abbildungen und 2 Tafeln. Vienna: A. Hartleben, 1909.

The author of this book has had about thirty years' experience in the solving of aerodynamic problems. As a general rule, aeronautical works are either entirely practical or purely theoretical; in other words, they either simply describe machines that have been actually constructed, or else set forth with the aid of complex mathematical formulæ the theoretical problems involved in aerial flight.

A HISTORY OF NEW YORK SHIPYARDS. By John H. Morrison, author of "A History of American Steam Navigation." New York: William F. Sametz & Co. 8vo.; 165 pp.; 20 ill. Price, \$2.50 net.

The name of John H. Morrison as the author of anything connected with the history of shipping, particularly in New York city and vicinity, is a synonym of great accuracy and thoroughness of research; and these qualities are evident in the compact work before us. In his "History of American Steam Navigation" Mr. Morrison has given the public a very exhaustive summary of the ships built and their subsequent performances.

INVENTIONS, PATENTS, AND DESIGNS, BY G. CROYDON MARKS. New York: D. Van Nostrand Company, 1909. 16mo.; 116 pp. Price, \$1.

In this book Mr. Marks has printed in full the British Patents and Designs Acts of 1907, and has in connection therewith devoted many pages to a popular discussion of the questions which patent solicitors are continually required to answer.

A GUIDE TO THE COUNTRY HOME. By Edward Kneeland Parkinson. New York: The Outing Publishing Company, 1909. 12mo.; 156 pp. Price, \$1.

This well-printed little book deals with Choosing the Home; Winter Planning; Tools, Their Cost and Use; What Shall We Raise; Live Stock—the Horse; Cows, Their Cost and Care; Swine, the Curing of Hams and Bacon;

Fowls, Their Care, Cost, and Price; Crops and How to Plant Them; the Orchard; the Market Garden; the Kitchen Garden; Bees; Trees, Lawns, and Shrubbery, and the Harvest. The illustrations are printed on wood-cut paper and are inserted.

Legal Notices



INVENTORS are invited to communicate with MUNN & CO., 361 Broadway, New York, or 625 F Street, Washington, D. C. in regard to securing valid patent protection for their inventions. Trade-Marks and Copyrights registered. Design Patents and Foreign Patents secured.

INDEX OF INVENTIONS

For which Letters Patent of the United States were issued for the Week Ending October 5, 1909,

AND EACH BEARING THAT DATE

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

Table listing inventions with names and dates. Includes entries like 'Adding machine, R. L. Burd', 'Adjustable stand, T. L. Bacon', 'Advertising device, T. Kharas', etc.

Table listing inventions with names and dates. Includes entries like 'Carbureter, G. T. Glover', 'Card attaching device, F. E. Morrill', 'Card exhibitor, Kilmier & Hennig', etc.

Table listing inventions with names and dates. Includes entries like 'Gas cut-off, automatic, R. F. Almsworth', 'Gas main, Moore & Glazier', 'Gas mantles, manufacture of incandescent', etc.

Home-Made Experimental Apparatus

In addition to the following articles, the Scientific American Supplement has published innumerable papers of immense practical value...

If there is any scientific, mechanical, or engineering subject on which special information is desired, some papers will be found in this catalogue...

A few of the many valuable articles on the making of experimental apparatus at home are given in the following list:

ELECTRIC LIGHTING FOR AMATEURS. The article tells how a small and simple experimental installation can be set up at home.

AN ELECTRIC CHIME AND HOW IT MAY BE CONSTRUCTED AT HOME, is described in Scientific American Supplement 1506.

THE CONSTRUCTION OF AN ELECTRIC THERMOSTAT is explained in Scientific American Supplement 1566.

HOW TO MAKE A 100-MILE WIRELESS TELEGRAPH OUTFIT is told by A. Frederick Collins in Scientific American Supplement 1605.

A SIMPLE TRANSFORMER FOR AMATEUR'S USE is so plainly described in Scientific American Supplement 1572 that anyone can make it.

A 1/4-H.-P. ALTERNATING CURRENT DYNAMO, Scientific American Supplement 1558.

THE CONSTRUCTION OF A SIMPLE PHOTOGRAPHIC AND MICRO-PHOTOGRAPHIC APPARATUS is simply explained in Scientific American Supplement 1574.

A SIMPLE CAMERA-SHUTTER MADE OUT OF A PASTEBOARD BOX, PINS AND A RUBBER BAND is the subject of an article in Scientific American Supplement 1578.

HOW TO MAKE AN AEROPLANE OR GLIDING MACHINE is explained in Scientific American Supplement 1582, with working drawings.

EXPERIMENTS WITH A LAMP CHIMNEY. In this article it is shown how a lamp chimney may serve to indicate the pressure in the interior of a liquid; to explain the meaning of capillary elevation and depression; to serve as a hydraulic tonique, an aspirator, and intermittent siphon; to demonstrate the ascent of liquids in exhaustive tubes; to illustrate the phenomena of the bursting bladder and of the expansive force of gases.

HOW A TANGENT GALVANOMETER CAN BE USED FOR MAKING ELECTRICAL MEASUREMENTS is described in Scientific American Supplement 1584.

THE CONSTRUCTION OF AN INDEPENDENT INTERRUPTER. Clear diagrams giving actual dimensions are published. Scientific American Supplement 1615.

AN EASILY MADE HIGH FREQUENCY APPARATUS WHICH CAN BE USED TO OBTAIN EITHER D'ARSONVAL OR OUDIN CURRENTS is described in Scientific American Supplement 1619. A plunge battery of six cells, a two-inch spark induction coil, a pair of one-pole Leyden jars, and an induction coil, and all the apparatus required, most of which can be made at home.

SIMPLE WIRELESS TELEGRAPH SYSTEMS are described in Scientific American Supplements 1363 and 1381.

THE LOCATION AND ERECTION OF A 100-MILE WIRELESS TELEGRAPH STATION is clearly explained, with the help of diagrams, in Scientific American Supplement 1622.

THE INSTALLATION AND ADJUSTMENT OF A 100-MILE WIRELESS TELEGRAPH OUTFIT, illustrated with diagrams, Scientific American Supplement 1623.

THE MAKING AND THE USING OF A WIRELESS TELEGRAPH TUNING DEVICE, illustrated with diagrams, Scientific American Supplement 1624.

HOW TO MAKE A MAGIC LANTERN, Scientific American Supplement 1546.

THE CONSTRUCTION OF AN EDDY KITE, Scientific American Supplement 1555.

THE DEMAGNETIZATION OF A WATCH is thoroughly described in Scientific American Supplement 1561.

HOW A CALORIC OR HOT AIR ENGINE CAN BE MADE AT HOME is well explained, with the help of illustrations, in Scientific American Supplement 1573.

THE MAKING OF A RHEOSTAT is outlined in Scientific American Supplement 1604.

Good articles on SMALL WATER MOTORS are contained in Scientific American Supplement 1494, 1049, and 1406.

HOW AN ELECTRIC OVEN CAN BE MADE is explained in Scientific American Supplement 1472.

THE BUILDING OF A STORAGE BATTERY is described in Scientific American Supplement 1433.

A SEWING-MACHINE MOTOR OF SIMPLE DESIGN is described in Scientific American Supplement 1210.

A WHEATSTONE BRIDGE, Scientific American Supplement 1595.

Good articles on INDUCTION COILS are contained in Scientific American Supplements 1514, 1522, and 1527. Full details are given so that the coils can readily be made by anyone.

HOW TO MAKE A TELEPHONE is described in Scientific American Supplement 966.

A MODEL STEAM ENGINE is thoroughly described in Scientific American Supplement, 1527.

HOW TO MAKE A THERMOSTAT is explained in Scientific American Supplements 1581, 1583, and 1566.

ANEROID BAROMETERS, Scientific American Supplements 1500 and 1554.

A WATER BATH, Scientific American Supplement 1464.

A CHEAP LATHE UPON WHICH MUCH VALUABLE WORK CAN BE DONE forms the subject of an article contained in Scientific American Supplement 1563.

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Table listing various scientific articles and their authors, including 'Spring wheel, Herbert & Ward', 'Steam separator, P. L. Allen', 'Steel trap, E. Gatterje', etc.

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