

INDEX OF INVENTIONS

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

July 29, 1902,

AND EACH BEARING THAT DATE. (See note at end of list about copies of these patents.)

Table of inventions with descriptions and patent numbers, including items like 'Adding-machine, J. L. Levin', 'Adjustable brace or support for movable structures', 'Air-brake system, W. G. MacLaughlin', etc.

Table of inventions with descriptions and patent numbers, including items like 'Fish trap hook, M. Greer', 'Fishing reel, H. Hendry', 'Floor mat, flexible metal, G. W. & H. McNeely', etc.

Table of inventions with descriptions and patent numbers, including items like 'Paving, manufacture of bituminous, W. S. Wilkinson', 'Paving mixture or composition, asphaltic, Wilkinson & Burchinal', etc.

Table of inventions with descriptions and patent numbers, including items like 'Vehicles, differential gear for self-propelling, A. Herschmann', 'Vehicles, two speed and differential gear for motor, J. C. Robbins', etc.

DESIGNS.

Table of designs with descriptions and design numbers, including items like 'Autocarette body, W. E. Schneider', 'Mantel, W. H. & J. P. Walker', etc.

TRADE MARKS.

Table of trade marks with descriptions and numbers, including items like 'Acid and preparations containing same, carbolic, F. C. Calvert & Co.', 'Ales, Bartels Brewing Co.', etc.

LABELS.

Table of labels with descriptions and numbers, including items like 'Alderney Baking Powder, for baking powder, National Label Co.', 'Ammonia Celery, for medicine, Thos. Kelly & Son', etc.

PRINTS.

Table of prints with descriptions and numbers, including items like 'A Combination Game, for game apparatus, McLoughlin Brothers', '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 10 cents, provided the name and number of the patent desired and the date be given. Address Munn & Co., 361 Broadway, New York.'

NEW BOOKS ETC.

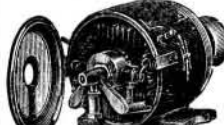
SOCIETY OF ENGINEERS. British vs. American Patent Law Practice and Engineering Invention. Paper by Benjamin H. Thwaite. Read at the Royal United Service Institution, March 3, 1902. London: Published by the Society of Engineers, 1902. Pp. 19. The SCIENTIFIC AMERICAN, in its column of "Legal Notes," has already called attention to Benjamin H. Thwaite's admirable discussion of (Continued on page 96)

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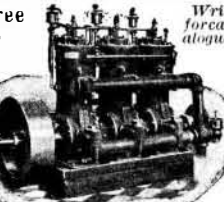


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the comparative merits of British and American patent practice. It is merely necessary to say that he has covered his ground fully, and shows how much England might gain by an Americanization of her patent system.

CRYOSCOPE. Par F. M. Raoult. C. Naud. 1901. No. 13. Pp. 106. Price 50 cents.

This monograph includes all that the famous Raoult had succeeded in accomplishing in the field of cryoscopy. M. R. Lespiau in a very admirably written preface tells us what this work is and how great is its importance.

FRANCES D'INTERFERENCE. Par J. Macé de Lépinay. C. Naud. 1902. No. 14. Pp. 101. Price 50 cents.

Prof. J. Macé de Lépinay has divided his work on interference into three parts. The first part is devoted to the explanation of methods of producing interference phenomena. The second part is devoted to a discussion of interference waves and to determinations of the order of interference as well as comparison of lengths. The third part is devoted to what might be called practical applications of interference phenomena.

LA GÉOMÉTRIE NON EUCLIDIENNE. Par P. Barbin. C. Naud. 1901. No. 15. Pp. 79. Price 50 cents.

M. Barbin has prepared a work which should be dear to the heart of every modern mathematician. After a discussion of Euclidian theories, he introduces us to a chapter on distance as a fundamental notion, describing in detail the work of De Tilly and Cauchy. His next chapter is devoted to a discussion of plane and special geometry. In the last chapter of the book he introduces us to the chief objections to non-Euclidian geometry and to the answering of these objections.

THEORY OF STEEL-CONCRETE ARCHES AND OF VAULTED STRUCTURES. By William Cain. Second, revised edition. New York: D. Van Nostrand Company, 1902. 16mo. Price 50 cents.

This is the second edition of an admirable little monograph on steel-concrete arches and vaulted structures. The arch of steel and concrete combined is taken up in detail to illustrate the general treatment. It has been throughout this book the aim of the author to give a clear analysis of principles involved, a knowledge of the fundamental principles of the equilibrium polygon alone being assumed.

L'INCANDESCENZA A GAS. Dott. Luigi Castellani. Milan: Ulrico Hoepli. 1902. Pp. 140.

EL PROBLEMA POLÍTICO. Jose Cascales y Munoz. Madrid: Librería de Victoriana Suárez. 1902. Pp. xlv, 215.

THE "CONSTRUCTIVE AND RECONSTRUCTIVE FORCES THAT ARE ESSENTIAL TO MAINTAIN AMERICAN INTERNATIONAL COMMERCIAL SUPREMACY" AND THAT "UNIVERSAL COMMERCIAL RECIPROcity TREATIES AND TARIFF REVISION ARE PREMATURE." By George J. Seabury. New York. 1902. Pp. 16.

The United States Department of Agriculture has sent us a monograph on the field operations of the Division of Soils, which is the second report on the subject. The monograph is accompanied by admirable maps.

FIRST BOOK OF QUALITATIVE CHEMISTRY. For Studies of Water Solution and Mass Action. By Albert B. Prescott, Ph.D., and Eugene C. Sullivan, Ph.D. Eleventh Edition. New York: D. Van Nostrand Company. 1902. 12mo. Pp. 148. Price \$1.50.

This little book first made its appearance in 1879 for classes taking a short course in qualitative practice. In its present enlarged form the work is intended to acquaint the beginner with chemical change in the light of the present studies of water solution. The authors have kept steadily before them the purpose of familiarizing the student with the character of the chemical elements which he handles and with the nature of chemical change. The book should prove an excellent laboratory manual.

DIE EISEN-KONSTRUKTIONEN DER INGENIEUR-HOCHBAUTEN. VI. (Schluss). Lieferung. Fortsetzung und Schluss des IV. Abschnittes. Freitragende Wellblechdächer—Eiserne Fachwerksbauten—Massive Decken Unter Verwendung von Eisen—Eiserne Treppen—Anhang—Tabellen—Sachverzeichnis. Leipzig: Verlag von Wilhelm Engelmann. New York: G. E. Stechert. 1902. Pp. 385-518. Price \$2.50.

This is the last installment of a book which supplies the proverbial long-felt want on framed structures and which is particularly adapted for the use of students at technical high schools. Most of the books which have been used for such purposes are either antiquated or are simply architectural works not written from the engineering standpoint. The installments as they have appeared have been reviewed in this column. Of the many engineering works which have come before us for a long time, we know of none which surpasses the present in thoroughness of treatment and trustworthiness of explanation.

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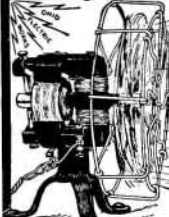
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Scientific American Building Monthly
VOL. 33.
JANUARY--JUNE, 1902.
278 Illustrations. 120 Pages, 6 Tint-Blocks.
The Thirty-Third Volume of this beautifully illustrated and finely printed Monthly Magazine, comprising the numbers January to June, 1902, is now ready.
... SPECIAL FEATURES ...

ILLUSTRATIONS. . .
The volume contains 6 tinted cover pages and 278 illustrations, including many fine examples of recent dwellings, gardens, views of groups and estates, interiors, exteriors and plans. Photographs of agricultural details, porches, doorways, mantels, etc., are especially helpful and suggestive. The illustrations of the Building Monthly are made from specially taken photographs and are not obtained elsewhere. Most of the houses are accompanied with full sets of plans.
TALKS WITH ARCHITECTS. . .
This interesting series of conversations with eminent architects by Mr. Barr Ferree comprises important talks with Mr. Thomas Hastings on "Some Suggestions for New York"; Mr. William J. Fryer on "The New Tenement House Law of New York"; Mr. Charles A. Rice on "The Development of the Small Cottage"; Mr. John Galen Howard on "The Beaux-Arts Architects"; Mr. J. Monroé Hewlett on "The Architect and the Municipality"; and Mr. George L. Morse on "The Durability of Steel Construction."

EDITORIAL ARTICLES. . .
Suggestive discussions on timely subjects for the home-builder: "Municipal Art"; "Roads and Houses"; "Washington the Magnificent"; "The House and the Terrace"; "The Art of Home-Building"; "Kitchen Ends and Back Yards."

DEPARTMENTS. . .
The Departments of the Monthly cover a wide range of topics and summarize the latest advance in current architectural thought and practice: "Monthly Comment"; "The Household"; "The Garden"; "Legal Decisions"; "New Books"; "Country Life"; "The Country House"; "Fire Protection"; "Sanitation"; "Civic Betterment"; "New Building Patents"; "Publishers' Department."
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