

INDEX OF INVENTIONS

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

August 12, 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 'Abdominal supporting bandage', 'Adjustable chair', 'Advertising device', etc.

Table of inventions with descriptions and patent numbers, including items like 'Drill rod grab', 'Drilling rivet holes in wheel hubs', 'Drum stand', etc.

Table of inventions with descriptions and patent numbers, including items like 'Knitting machine attachment', 'Knitting machine stop motion', 'Label with metal fastening clamp', etc.

Table of inventions with descriptions and patent numbers, including items like 'Signaling, wireless', 'Sine wave extractor', 'Singletree clip', etc.

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Table of designs with descriptions and patent numbers, including items like 'Automobile body', 'Bottle, prescription', 'Desk casting', etc.

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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.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars address Munn & Co., 361 Broadway, New York.

NEW BOOKS ETC.

A HAND BOOK FOR APPRENTICED MACHINISTS. Edited by Oscar J. Beale, Providence, R. I.: Brown & Sharpe Manufacturing Company. 16mo. Pp. 141.
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of the Brown & Sharpe Company in the instructing of apprentices. It was thought that there is too much uncertainty in depending upon oral instruction to impart the information in some detail which every apprentice is entitled to receive. An experimental edition of this book has been printed, and has proved useful. The present edition is carefully revised and enlarged, and in its present form should be still more useful. The book does not aim to take the place of the engineers' pocketbooks already published. It is simply what it purports to be, an elementary treatise for apprentices.

V. LÖBEL'S JAHRESBERICHTE über die Veränderungen und Fortschritte im Militärwesen. XXVIII. Jahrgang. Bericht für das Jahr, 1901. Unter Mitwirkung zahlreicher Offiziere herausgegeben von v. Pelet-Narbonne, Generalleutnant z. D. Mit einem Bildniss des verstorbenen Obersten v. Loebell und fünf Skizzen im Text. Berlin: E. S. Mittler & Sohn.

The last annual volume of von Löbell's Jahresberichte bears as a frontispiece a portrait of the late Col. von Löbell, the founder of these famous annual military reports. Of particular importance among the many subjects discussed in the volume are the military operations of the allied forces in the Far East. The first part of the report is devoted to the discussion of the development during the past year of the armies of Europe and the United States. The second part of the book is devoted to the discussion of military subjects, among which may be mentioned cavalry and infantry tactics, field ordnance, scouting service, etc.

SMALL DYNAMOS AND MOTORS. How to Make, Test and Repair Them. By F. E. Powell. Fully illustrated. London: Dawbarn & Ward, Ltd. Pp. 76.

This little book is intended for those who have sufficient elementary knowledge of electrical engineering, and who wish to try their hand at the designing and building of small dynamos or motors. The work ought to present no difficulty to the amateur of average intelligence who takes a lively interest in the subject and has some slight grasp of craftsmanship in addition to constructive talent.

LE PHÉNOMÈNE DE KERR. Par E. Néculéa. C. Naud. 1902. 16mo. Pp. 91. Price 50 cents.

M. Néculéa's monograph is devoted to a discussion of the phenomena of double electric refraction, which was first discovered by Kerr in 1875. The particular phenomenon which M. Néculéa describes must be distinguished from the phenomenon of double electric refraction, with which Mr. Kerr also acquainted the scientific world. With this latter phenomenon the present work has nothing whatever to do. So far as the first is concerned, its existence has been considered doubtful, for the conditions under which it has been studied in the experiments made by Kerr, Roentgen, Quincke and Brongersma never seemed sufficiently conclusive to many scientists to decide whether the double refraction observed is a direct effect, due to dielectric causes, or simply a secondary effect resulting from the heating of solid or liquid dielectrics. In the opinion of the author, Kerr's phenomenon has a most decided existence—an existence which he has proven by a very earnest and thorough discussion. An excellent bibliography accompanies his work.

WORKSHOP WRINKLES FOR DECORATORS, PAINTERS, ETC. Edited by William Norman Brown. London: Scott, Greenwood & Co. New York: D. Van Nostrand Company. 1901. 16mo. Pp. xv-127. Price \$1.

This is a little book that should be of service where often a certain job must be done in a hurry, and no one knows exactly how to do it. The subjects treated are "Decorating," "Painting," "Paper Hanging," "Waterproofing," "Varnishing," etc. Since the information is arranged alphabetically under heads, it can be easily referred to.

THE STORY OF CREATION. By Gibson C. Andrews. Greenville, Va. 1900. Pp. 232.

AMMONIA AND ITS COMPOUNDS. THEIR MANUFACTURE AND USES. By Camille Vincent. Translated by M. J. Salter. London: Scott, Greenwood & Co. 1901. New York: D. Van Nostrand Company. Large 8vo. Pp. xii-114. Price \$2.

Although Prof. Camille Vincent's little treatise on ammonia describes primarily French methods for the preparation of ammonia and ammonium salts from various waste and raw products, it should be of service in the admirable English form with which Mr. Salter has provided us. Ammonia is of considerable use in the industrial arts and of late its application in agriculture and refrigeration has increased in importance to such an extent that chemical manufacturers have been induced to pay more attention to methods and means for producing it in a comparatively pure condition on a large scale. Although the book is admirably printed, its illustrations might be better. Evidently they were taken from the French edition.

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