

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

STRAW-STACKER.—CONRAD GLAUM, Audubon, Minn. The straw-stacker can be used in connection with any thrashing-machine, the straw being distributed so that a perfect stack can be readily built up.

Miscellaneous Inventions.

DISH-WASHER.—FRANKLIN S. HOGG, Manhattan, New York city. The invention provides a device by means of which a dish may be securely held, turned in any direction, and every portion of its surface thoroughly cleaned without bringing the hand in contact with the dish or with the swab used for cleaning.

SASH-PULLEY.—JOHN DUFFY, Grand Rapids, Mich. The novel feature of the invention is a pulley-casing provided with side flanges and overlapping portions. One overlapping portion has an opening and the other a tongue.

NEWSPAPER OR LETTER-FILE.—HENRY P. KREHBIEL, Canton, Ohio. On a base, file or impaling studs are mounted, together with rotatable posts each having a lateral arm and arranged opposite the studs.

TRUSS.—JOSEPH FANDREY, Los Angeles, Cal. A pad is employed provided with a projected portion between the ends. The projected portion has an approximately horizontal lower wall which extends diagonally of the pad.

COMBINED PENCIL-HOLDER OR PROTECTOR AND LETTER-BALANCE.—OTTO BECKMANN, Mannheim, Germany. The inventor has combined a pencil-holder or protector with a letter-balance in such a manner that the exterior appearance of the former is not materially altered.

CANDLE-HOLDER.—MARTIN HAGEN, Cashton, Wis. That Christmas trees are easily set on fire when a candle has burnt down to the last has been only too fatally proven time and time again.

INK-PAD STAND.—EDWARD G. WOODY, Wilmington, N. C. The object of the invention is to provide a new ink-pad or casing for removably holding an ink-pad and preventing dust from settling on the pad, thus insuring at all times a good inking of the stamp.

GAS-BURNER.—THEODORE E. SINNBERG, 54 Vicarage Road, Camberwell, London, England. The invention relates to atmospheric gas-burners used for incandescent lighting and has for its object to enable the gas supply and air supply to be regulated to each other so as to secure the best possible result in illumination.

DENTIFRICE-BOTTLE.—CARR-LOWREY GLASS COMPANY, Baltimore, Md. Dentifrice bottles have usually a glass body, a metal cap, and a cork-stopper. The metal is so easily corroded and tarnished, that the goods cannot be sold when kept in stock for a considerable time.

Designs.

BOX-BLANK.—CARL ENGBERG, St. Joseph, Mich. The design in its entirety consists of center piece, having rounded corners and side flanges, extending from the sides of the center piece and having at their ends somewhat inwardly-deflected end flaps.

FURNITURE-BUFFER.—SIGMUND SALOMON, Manhattan, New York city. The buffer has a circular body portion, at one side of which is a central semispherical projection; and extended from the edge at the opposite side are tooth-like structures.

NOTE.—Copies of any of these patents can be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal.

Marine Iron Works. Chicago. Catalogue free. "U. S." Metal Polish. Indianapolis. Samples free. Yankee Notions. Waterbury Button Co., Waterbury, Ct.

Book "Dies and Die-making," \$1, postpaid. J. L. Lucas, Bridgeport, Ct. Send for index sheet. Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 141 Varick St., N. Y.

The celebrated "Hornsey-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

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Notes & Queries

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References to former articles or answers should give date of paper and page or number of question.

Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and though we endeavor to reply to all either by letter or in this department, each must take his turn.

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(7991) H. S. asks: How is the carrying capacity of German silver wire calculated? A. The carrying capacity of German silver wire can be calculated if its composition is known, but the variations from the theory will be so great in any practical case that it is better to determine carrying capacity experimentally, that is, find what size of wire will carry the current without overheating.

(7992) A. E. C. asks how to make spark coil that in connection with two or three cells of dry cell battery will give spark large enough to light a gas jet? A. For the dimensions of a spark coil, see SCIENTIFIC AMERICAN, vol. lxxxii, No. 26, answer 7905, price ten cents.

NEW BOOKS, ETC.

UP-TO-DATE AIR-BRAKE CATECHISM. By Robert H. Blackall. Twelfth Edition, Revised and Enlarged. New York: Norman W. Henley & Company, 1900. 12mo. Pp. 254. Price \$1.50.

The subject is a most important one, and railway men cannot be too well posted on the latest developments in air-brake practice. The present volume is now in its twelfth edition, which is sufficient guarantee of the excellence of the work.

THE ELECTRO-MAGNET. Edited by Townsend Wolcott. Jersey City: Varley Duplex Magnet Company. 16mo. Pp. 60.

The author develops the electro-magnet along a new line which, on the whole, is rather interesting. Specific instructions are given for designing magnets of various sizes. Various formulas are also given.

INDEX OF INVENTIONS

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

NOVEMBER 13, 1900,

AND EACH BEARING THAT DATE.

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

Acid, making anthranilic, Seidel & Preuss..... 661,821 Adjustable bracket, S. F. Cheney..... 661,755 Air brake, J. J. Neff..... 661,702

Table listing inventions with patent numbers and names. Includes items like Air brake mechanism, Automobile boiler, Book "Dies and Die-making", etc.

Table listing inventions with patent numbers and names. Includes items like Furnace, Jauchin & Reuleaux, Glass sheets, machine for rolling, Gun machine, etc.

(Continued on page 333)



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BALL BEARING AXLES AND RUBBER TIRES.—A paper read before the Carriage Builders' National Convention, Philadelphia, October, 1894, showing the advantage to be derived from the use of ball bearings and pneumatic tires in road vehicles. Contained in SCIENTIFIC AMERICAN SUPPLEMENT, No. 1192. Price 10 cents. To be had at this office and from all newsdealers.

Advertisement for Remington Typewriter Record at Paris Expositions. Includes image of a woman sitting at a typewriter and text mentioning 1878 Gold Medal, 1889 Gold Medal, and 1900 A Grand Prix. Highest Form of Award. Outranking All Medals.

WYCKOFF, SEAMANS & BENEDICT 327 Broadway, New York.

Advertisement for Armstrong's No. 0 Threading Machine. Can be attached to bench or post. Designed for threading the smaller sizes of pipe, iron or brass, also bolts. Has two speeds, one for pipe 1/8 to 1 inch; the other for pipe 1/4 to 2 inches inclusive. Uses the regular Armstrong adjustable dies. Other attractive features. Send for particulars. The Armstrong Mfg. Co., 139 Centre Street, New York. Bridgeport, Conn.

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Advertisement for Experimental Science. By GEORGE M. HOPKINS. 20th Edition Revised and Enlarged. 914 Pages, 820 Illustrations. Price \$4.00 in cloth; \$5.00 in half morocco, postpaid. This is a book full of interest and value for Teachers, Students, and others who desire to impart or obtain a practical knowledge of Physics. Includes image of the book and a diagram of a scientific apparatus.

Table listing various scientific and mechanical products and their prices. Includes items like 'Bowling alley light reflector and pin indicator', 'Burkhardt', 'Braid, L. Brandt', 'Cigar box, M. Switzer', etc.

TRADE MARKS.

Table listing trade marks and their associated companies. Includes 'Beer, lager, Wacker & Birk Brewing and Malting Company', 'Biscuit, sweet almond, H. Lalo', 'Boilers, cleaning compound, H. P. Sotomayor', etc.

LABELS.

Table listing various labels and their manufacturers. Includes 'A. B. C.' for beer, American Brewing Company; 'Bechtel Brew' for bottled lager beer, George Bechtel Brewing Company; 'Black Bass' for beer, American Brewing Company; etc.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1895, will be furnished from this office for 10 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway, New York.

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