

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry.

MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 8547.—Wanted, playing cards with raised spots for those that cannot see.

Pattern Letters. Knight & Son, Seneca Falls, N. Y.

Inquiry No. 8548.—Wanted, machinery for the manufacture of alcohol from apples, molasses and sugar.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 8549.—Wanted, a musical alarm clock, 7 inches high by 5 inches wide, nickel-plate brass frame with glass slides, visible works, retail price \$2.48; wanted to purchase same by wholesale.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 8550.—Wanted, a machine for pointing meat skewers in large quantities, such as 50,000 skewers a day.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 8551.—Wanted, machinery for drilling vegetable ivory buttons.

Make Alcohol from Farm Products.—New book, \$1.00. Spon & Chamberlain, 123 S. A. Liberty Street, N. Y.

Inquiry No. 8552.—Wanted, makers of portable sanitary closets.

WANTED.—Copies of our "Manufacturers' Index" issued some eight years ago. State price. Munn & Co., 361 Broadway, New York.

Inquiry No. 8553.—Wanted, name and address of the makers of the Perplexity Puzzle recently sold by the Union News Co.

The celebrated "Hornby-Akroyd" safety oil engine. Koerting gas engine and producer. Ice machines. Built by De La Vergne Mch. Co., Ft. E. 138th St. N. Y. C.

Inquiry No. 8554.—Wanted, name and address of wholesale dealers in galvanized corrugated iron and galvanized iron roofing.

Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machine work and special size washers. Quadria Manufacturing Company, 18 South Canal St., Chicago.

Inquiry No. 8555.—Wanted, manufacturers of the following: trunk board, lamp colors, sheet aluminum, coal-oil burner without chimney.

Inquiry No. 8556.—Wanted, the address of a German firm which manufactures souvenir post cards and one which makes prism field glasses.



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. 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. Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected without remuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. Minerals sent for examination should be distinctly marked or labeled.

(10279) M. O. C. asks: Can you inform us how to copper common iron castings without a battery so they will not rust, or how to whiten them by dipping? A. To copper iron castings, the articles must be made perfectly clean, and then dipped in a solution of 1/2 pounds copper sulphate in water to which 1 ounce sulphuric acid has been added. They are then washed and dried.

(10280) W. H. asks: Please give me the best formula for a dry primary battery. A. One of the best dry cells is said to be filled with the following mixture: Oxide of zinc, 1 part by weight; sal-ammoniac, 1 part; plaster of Paris, 3 parts; chloride of zinc, 1 part; water, 2 parts.

NEW BOOKS, ETC.

PRINTING ART. Vol. VII. Cambridge, Mass.: Issued by the University Press, 1906. 4to.; pp. 412.

The volume before us is one of the most luxuriant, from a typographical point of view, that we have ever seen. It should be on the desks of all managers of printing establishments, and every compositor should subscribe for this beautiful publication, which will teach him how to produce the most artistic composition and printing. All of the advertisements are bound in, which is an excellent idea, as they are most informing. There are a large number of inserts showing cover papers of various weights and colors. The text is devoted to articles on the printing art written by experts, and freely illustrated by examples from the very best presses. A large number of samples of commercial work are tipped in. One can see at a glance what the up-to-date printers are doing in the line of commercial work. This publication should be subscribed for regularly by all those who are in a position to buy printing, as it enables them to keep abreast of a rapidly-advancing art. The publication is highly creditable to editor and printer alike.

INDEX OF INVENTIONS

For which Letters Patent of the

United States were Issued

for the Week Ending

December 18, 1906.

AND EACH BEARING THAT DATE

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

Table listing inventions with names and patent numbers. Includes entries like 'Accounts, means for keeping credit and statement, I. H. Hollander', 'Aerial navigator, automobile, G. M. West', 'Air brake, E. C. C. Smith', etc.

Table listing inventions with names and patent numbers. Includes entries like 'Corrugating machine, I. W. Numan', 'Coupling device, H. Hills', 'Crown, porcelain and metallic, C. A. Davis', etc.

Table listing inventions with names and patent numbers. Includes entries like 'Jewel remover and seater, H. Straw', 'Journal bearing, F. M. Nash', 'Journal bearing, J. F. Walsh', etc.