On almost every GOOD Car

You'll see

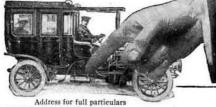


Contains ready-generated Acetylene Gas ready for use at any time at the turn of the key

Forty hours light at the turn of a key Tanks last FOREVER. No bother. No trouble. No Carbide. No Water.

No Dust, Just pure white light at the turn of a key.

This little tank holds enough Compressed Acetylene Gas (already generated and puri-fied) to supply two big lamps for forty hours. Old empty tanks exchanged for new full ones at dealers and garages in over 400 cities.



THE PREST-O-LITE CO., Dept. 25, Indianapolis, Ind.

Personally Conducted - Exclusively First-Class-to California—January 10th, February 7th and March 2nd under the auspices of the tourist department, Chicago, Union Pacific and North-Western Line;

Include all expenses

-hotels, railway fare, sleeping car and dining car accommodations of the finest character, and numerous side trips. So arranged as to spend the disagreeable portions of the winter months in comfort and ease.

Write for itineraries and full particulars to S. A. Hutchinson, Manager, 212 Clark Street, Chi-cago, Ill.

THE MIETZ & WEISS



Send for OIL ENGINES Stationary 11/2 to 80 H. P.

Marine 3½ to 100 H. P. Use KEROSENE and FUEL OILS. Direct connected Generators, Pumps, Air Compressors, Hoists, etc. Thousands in use in all parts of the world,

AUGUST MIETZ

128-138 Mott St., New York, U.S.A.



Clearing Sale

Slightly Typewriters
Used

We own and offer as wonderful bargains, 1,500
typewriters which have been used just enough
to put them in perfect adjustment. Better
than new. Subped on approval, free exew Visible Sholes machines, built to sell for \$95-

FREE catalogue containing unparalleled list of splendid typewriter bargains. Send for it to-day. Rockwell-Barnes Co., 1659 Baldwin Bldg.. Chicago, III.

SELL PATENTS

CHAS. A. SCOTT 819 MUTUAL LIFE BLDG, BUFFALO, N. Y.



Anyone sending a sketch and description may nickly ascertain our opinion free whether an avention is probably patentable. Communications strictly condential. HANDROW, on Patents ignt free. Oldest agency for securing patents. Patents taken through Munn & Co. receive special sotice, without charge, in the

handsomely illustrated weekly. Iargest cir-ulation of any scientific journal. Terms, \$3 a ear: four months, \$1. Sold by all newsdealers. MUNN & CO. 36 1 Broadway, New York Branch Office. 626 F St., Washington, D. C. Remedy for the ailments of birds, F. Kaempfer 57,862
Remedy, herb, Alonzo O. Bliss Medical Co. 57,843
Rubber boots and shoes, W. S. Nott Co. 57,840
Rubber collars, Parsons & Parsons. 57,843
Rubber overshoes, Emergency Rubber Co. 57,840
Rubber soles, heels, and protectors for boots and shoes, Pneumatic Rubber Sole and Heel Syndicate 8.

Rubber syringes, hard, American Hard Rubber Co. 57,843
Rubber of Co. 57,843
Saws of all kinds, E. C. Atkins & Co. 57,748, 57,749
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Seed for lawns, mixed grass, Albert Dickinson Co. 57,843
Soap, Fels & Co. 57,743
Soap, Lever Brothers Co. 57,743
Soap, Lever Brothers Co. 57,743
Soap, Lever Brothers Co. 57,743
Soda and baking powder, baking, Church & Dwight Co. 57,843
Soda, acarbenate of, Church & Dwight Co. 57,848
Soda, acarbenate of, Church & Dwight Co. 57,841
Spirits and essences, liquid substitute for, J. Sim 300 mitating natural wood on any Remedy for the ailments of birds, F. Kaemp-

LABELS.

"Dim Co.

'Old Favorite,' for whisky, J. Grossman's 13,221 Sons 13,222
"The Mascot Solitaire," for a game, C. C. Kelly Kelly 13,226
"Tryo," for toilet paper, Scott Paper Co. 13,224
"Universal Finish," for wall finish or plaster, United States Green Co.

PRINTS.

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 by given. Address Munn & Co., 361 Broadway, New York.

York.

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



A CONTROLLING INTEREST FOR SALE

at great bargain in New York Corporation owning patented article of universal use, now sold by leading stores throughout United States. For particulars write or apply to

CHARLES M. CHAPMAN, Attorney 60 WALL STREET, NEW YORK

BRAIN WORKERS-THINKERS!

Have you that clearness of mind so essential to success in your undertakings? You can have, but not until your physical system is right. I want to tell every interested reader of SCIENTIFIC AMERICAN how he may attain perfect physical health by adopting the simplest, most rational and logical method yet known—RAW FOOD DIET—not a fad of "cranks," not a theory, but an infallible method of proper eating. Send \$1.00 for sack of my MASCERATED WHEAT (30 days supply), and convincing letters, or merely write for literature and information hand supply), and convincing letters, or merely write for literature and information blank. BYRON TYLER, 334 Life Bidg., Kansas City, Mo

LET US BE YOUR FACTORY
WRITE FOR ESTIMATE ON ANY ARTICLE
YOU WANT MANUFACTURED
STAMPINGS, MODELS, EXPER. WORK
WRITE FOR FREE BOOKLET
THE CLOBE MACHINE & STAMPING CO.
970 Hamilton St., Cleveland, O.

Our Filters Purify, Dendorize,
Decolorize. Booklet Free.
Buhring Water Purifying Co.
68 Murray St., New York Bad

BALL BEARINGS

For thrust or weight or both.
No fitting, just push them on.
All stees 1.4 in. Shaft and up.
10 cts. in Stamps for samples.
PRESSED STEEL MFG. CO., 5 45 The Bourse, Phila., Pa.

AUTOMOBILE INSURANCE Every owner of an Auto should insure his car against loss or damage, whether in actual riding or in transit. We fully insure you against such loss or damage, however sustained. Premiums low Fullest reliability.

H. W. BEALS, 76 William Street, New York

FREE ELECTRIC BOOK

We will on request send to you postpaid, this book, also our special plans by which you can secure any article in our catalog absolutely free, Write to-day-don't miss this chance. J. Andrae & Sons Co., 114 W. Water Street, Milwaukee, Wis.

Corliss Engines, Brewers Machinery, THE VILTER MFG. CO. 899 Clinton St., Milwaukee, Wis.

MODELS & EXPERIMENTAL WORK.

Inventions developed. Special Machinery.

E. V. BAILLARD. 24 Frankfort Street. New York.

RUBBER Expert Manufacturers
Fine Jobbing Work PARKER, STEARNS & CO., 228-229 South Street, New York

Model and Experimental Work. Years of experience. M. P. Schell, 1759 Union St., San Francisco

MODELS & INVENTIONS PERFECTED UNION MODEL WORKS 193 SOCIARKST CHICAGO.

LINENOID .- A MOLDED MATERIAL MADE OF PURE LINEN CRANE BROS. MANUFACTURERS, WESTFIELD, MASS

A WATCHMAKER Send for our free book, How to be a Watchmaker. Stone School of Watchmaking, 904 Globe Bldg., St. Paul, Minn.

MODELS CHICAGO MODEL WORKS 179 E. MADISON ST CHICAGO, ILLE. WRITE FOR CATALOGUE OF MODEL SUPPLIES

Telegraphy Co., Debt 58, 2019. OMNIGRAPH CO., Debt 59, 59 Cord-landt St., New York.

PEMENT BOOKS. How to Use Portland Cement Stewark Construction, 50c.; Reinforced Concrete Construction, \$2.50; Hol-PEMENT AND ENGINEERING NEWS, Chicago, Ili

VENTRIL OQUISM

to-day 2-cent stamp for particulars and proof.

O. A. Smith, Room 139, 2040 Knoxville Ave., Peoria, Ill.







A new and ingenious puzzle guaranteeing carload of fun and entertainment. Price 50c. Sent Free for a list of 50 names and addresses to whom 10 o more sales are made. A superi Christmas gift Beautifully finished in stained wood.

The Wizard's Knot Co., York, Pa.



GAS ENGINE DETAILS.-A VALUAble and fully illustrated article on this subject is contained in SUPPLEMENT No. 1292. Price 10 cents. For sale by Munn & Co. and all newsdealers.



THE LEAVITT SIREN HORN is an ideal Signal for use on Automobiles and Motoboats. The tone can be varied instantly from a soft
hum to a voluminous blast that can be heard for
miles. The mechanical part of the horn is made
from Aluminum and is furnished with a brass
horn 5 inches in dismeter. A large horn is necessary to concentrate the sound and throw it
forward, as without it, the sound would not
carry miore than a few yards. We furmsh all
attachments complete. Price, \$35. THE UNCAS SPECIALTY CO.

SENSITIVE LABORATORY BALANCE SEINSTITUE LIABOURATION DAHANCE BY N. Monroe Hopkins. This "built-up" laboratory balance will weigh up to one pound and will turn with a quarter of a postage stamp. The balance can be made by any amateur skilled in the use of tools, and it will work as well as a \$125 balance. The article is accompanied by detailed working drawings showing various stages of the work. This article is contained in Scientific American Supplement, No. 1154. Price 10 cents for sale by Munn & Co. 341 Broadway, New York City, or any bookseller or newsdealer.

