



Pau USE GRINDSTONES ?

If so we can supply you. Al sizes mounted and numounted, always kept in stock. Rememoer, we make a specialty of selecting stones for all special purposes. Sond for catalogue "1" The CLEVELAND STONE CO. 2d Floor, Wilshire, Cleveland, O.



PHONOGRAPHS

Free Catalogue No. 50 Latest Records

EUGENE CLINE & COMPANY 59 Dearborn St., Chicago, Ill.



Are your bearings running hot? Reduce friction "mentally" and mechanically by sending to us for full particulars about Frictionless. We have the remedy. No bearing can run hot with it. Frictionless Metal Co., Chestnut St., Chattanooga, Tenn.



Make your eyes by using our band power bending machines. Take stock up to 136 inch and bend up to 7 inches diameter.

Write to-day for catalogue.

Wallace Supply Co., 921 Garden City Blk, Chicago, III.

The Adirondack **Mountains**

Are now about the most central of all the great resorts. They have through Puliman sleeping cars from New York, Philadelphia, Boston, Buffalo and Niagara Falls via the



A night's ride takes you from any of these places to the center of the mountains in time for breakfast next morning.

For a copy of "The Adirondack Mountains and How to Reach Them," which is No. 20 of the New York Central Lines' "Four-Track Series," containing a fine map of the Adirondack Mountains and adjacent territory, with useful information in regard to hotels, camps, lakes, rivers, etc., send a two-cent stamp to George H. Daniels, Manager General Advertising Department, Room 26, Grand Central Station, New York.

C. F. DALY Pass. Traffic Mgr. NEW YORK

W. J. LYNCH Pass. Traffic Mgr. CHICAGO



Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probably patentable. Communications strictly condiential. HANDBOOK on Patents sent free. Oldest agency for securing patents. Patents taken through Munn & Co. receive special notice, without charge, in the SCIRMIST THE STATE OF THE STATE OF

handsomely illustrated weekly. Largest 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. 625 F St., Washington, D. C.

Powders and creams, toilet, E. N. Lanigan. 53,583
Primers or caps, blasting, Metallic Cap Manufacturing Co.
Pulverizing machinery, G. H. Frazier. 53,515, 53,516
Pumps, F. E. Myers & Bro.
Razers, Smith & Hemenway Co. 53,570, 53,572
Refrigerators, O. M. Whitman & Co. 53,396
Remedy for certain named diseases, Gerstle
Medicine Co. 53,601
Remedy for creup, coughs, and brenchial
affections, C. V. Dorman 53,594
Rhomody for creup, coughs, and brenchial
affections, C. V. Dorman 53,593
Ribbons, Vischer & Co. 53,615, 53,651
Rings, A. Tanzer 53,596
Roofing, felt and paper, C. T. Carruth 53,593
Robins, felt and paper, C. T. Carruth 53,596
Roofing, felt and paper, C. T. Carruth 53,596
Scales, counter, Anderson's Computing Scale
Co. 53,612
Scales, counter, Anderson's Computing Scale
Co. 53,612
Scales, counter, Anderson's Computing Scale
Co. 53,612
Scales, counter, Anderson's Computing Scale
Co. 53,636
Seed meal and nut cake, cotton, Humphreys,
Godwin & Co. 53,612
Scheetings, cotton, A. W. Green 53,569
Sheetings, cotton, A. W. Green 53,629
Shees, ladies', men's, and children's leather,
A. J. Bates Co. 53,612
Shovels, spades, scoops, and spading forks,
Hibbard, Spencer, Bartlett & Company, 53,550
Silk, crepe de chine, mousseline silk, etc.,
taffeta, Marcus Bres. 53,632
Silk, dress goods in the piece, Rogers &
Tempsen 53,633
Skins, patent kid and patent coit, D. F.
Kennedy 53,424 LABELS.

"A Study in Cotton," for a school study box	10.000
for children, A. G. Helmer	12,928
"Bastew's Coceanut Biscuits," for coceanut biscuits, Stuart Bastew Co	12.914
"Diamond Liniment," for a liniment, H. A.	12,314
R. Herten	12.918
R. Herten	
Barclay Brown & Taylor	12,916
"Edstrom's Blood Purifier," for a blood puri- fier for blood and skin diseases, O. E.	
Edstram	12,924
"Elliett's Inhalant," for an inhalant for pul-	12,021
Edstrom "Elliott's Inbalant," for an inbalant for pul- monary diseases, S. K. Elliott	12,923
"Gatling Gun Remedy," for medicine, M.	10 000
Vincent	12,922
son	12.921
son	
den Manufacturing Co	12,926
"Half Century Coffee," for package coffee, J. H. Ronan & Co	12.912
"Label for Russell's Playing Cards," for	12,912
playing cards. W. W. Russell Card Co	
"McAllister's Specific," for specific liniment,	
J. J. McAllister	12,919
"Ondawa," for flour, Kimball Flour Co "Otter Island Brand," for canned clams, Barclay Brown & Taylor	12,91 3
Barelay Brown & Taylor	12.915
· Red Dragon Brand. For spices, woolson	
Spice Co. "Supreme," for German knitting worsted,	12,917
"Supreme," for German knitting worsted,	
H. Mishkewsky	12,927
"The Elizabeth Salve," for a medical pre- paration for the cure of skin diseases, M. Herschman	
M. Herschman	12,925
"Zynexall," for medicine, A. L. McVay	12,920

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

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

NCHESTE



"BRUSH" SHELLS FOR BIRD SHOOTING.

Winchester "Brush" Shells help wonderfully to make big bags. They are so loaded as to give an open and even pattern at ranges from 25 to 30 yards when used in choke bore guns, without loss of velocity of the standard sheeting. formity. With these shells you can use your duck or trap gun for field shooting and make many kills which otherwise would be misses. They are loaded in "Leader" and "Repeater" grades and sold by reputable dealers everywhere. Ask for Winchester "Brush" Shells and accept no substitute. Winchester Shelts. Cartridges. and Guns Are Sold Everywhere.

WINCHESTER REPEATING ARMS CO... NEW HAVEN, CT.



LEARN PLUMBING and earn \$5.00 a day. A few months' study at our school under the supervision of expert plumbers will enable you to earn this salary. We have a special department to secure positions for students after graduating. Write to-day for FREE CATALOGUE. and earn \$5.00 a day. A few months' study at our

ST. LOUIS TRADE SCHOOL, 3972 Olive Street, St. Louis, Mo.

ROYAL SIAMESE STATE RAILWAYS

Tenders are requested for the supply of **9** Passenger Locomotives and **7** Goods Locomotives with Spare parts. Brawings and conditions may be obtained against payment of \$1.50 per set at the Siamese Legation in Washington. Scaled tenders with the inscription "Tender for Locomotives" must be forwarded to the undersgued in whose office they will publicly be opened at 10 a.m. on the 12th of September, 1966. Brigkok, the 10th of March, 1966. The Director General, L. WELLER.



and Bottlers 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

Men and buys wanted to learn plumbing, plastering, bricklaying. Special offer life scholarship lifty collars, easy payments. Position and union card guaranteed. Free catalogue. Covine Bros. Trade Schools, 239-243 Tenth Avening, New Yirk. Chicago. St. Lonis.

MODELS and EXPERIMENTAL WORK. anical and Fleetrical Devices. Small Machinery J. 1.FNZ, 710 Hudson Street, New York.

Special Machinery designed and built to order. G. M. Mayer, M.E., 1131 Monadnock Bl., Chicago, Ill. DRYING MACHINES. S. E. WORRELL Hannibal. Mo.



Experimental & Model Work

NOVELTIES & PATENTED ARTICLES MANUFACTURED BY CONTRACT, PUNCHING DIES, SPECIAL MACHINERY, E.KONIGSLOW STAMPING & TOOL WORKS, CLEVE LAND, D.

Capable German specialty house desires the general agency of a prominent factory for Modern High-speed Lathes and Milling Machines. Inquire of M. Z., 3510, Rutolf Mosse, Hamburg

Watch Making and Engraving School

We teach it thoroughly in as many months as it formerly took years. Does away with tedious apprenticeship. Money earned while studying. Positions se-

cured. Easy terms. Send for cutalug. ST. LOUIS WATCHMAKING SCHOOL, St. Louis, Mo.

PROPOSALS.

PROPOSALS will be received at the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 o'clock A. M., June 26, 1916, and publicly opened immediately thereafter, to furnish for the naval station, Olonzapo, P. I., a steel bridge, 61-foot span, 15-foot roadway. To be delivered on the waterfront at New York, N. Y., or San Francisco, Cal., at the option of the contractor. Copies of plans can be obtained upon application to the Bureau of Yards and Docks, Navy Department, Washination, 11. C. Applications for proposals should refer to Schedule 580. Blank proposals will be furnished upon application to the navy pay offices, New York, N. Y., and San Francisco, Cal., or to the Bureau, H. T. B. HARRIS, Paymaster-General U. S. N. 5-23-06.

Start A Mail Order Business. Acknowledged by shrewd business men business in the World. Stop working for others—big profits—money comes with orders—our plan for sharting beginners is a sure winner and offers you a chance to get in business for yourself. Full particulars for stamp.

A. FRANKLIN-HOWARD CO., Kansas City, Mo.

DO YOU

Want your PATENTS Developed? Experimentals, Models and fine instrument work. Surveying instrument repairs a specialty.

Richter & Poncet, 115 Court Street, Hoboken V. J. Two minutes from D. L. W. Depot

STEEL TYPEWRITER TYPE We make, or will furnish complete outalt for making, all styles. NEW YORK STENCIL WORKS, 100 Nussau Street, New York.

Magical Apparatus. Grand Book Catalogue. Over 700 engravings

MARTINKA & CO., Mfrs., 493 Sixth Ave., New York.

MASON'S NEW PAT. WHIP HOISTS save expense and liability incident to Elevators. Adopted by principal storehouses in New York & Boston Manfd. by VOLNEY W. MASON & CO., Inc. Providence, K. I., U. S. A.

A MINIATURE TELEPHONE BOOTH

You can earn money while learning. For sample, the description of the

EARN WATCHMAKING
We teach it thoroughly in as many months as it merly took years. Does away with tedious apprensiship. Money earned while studying. Positions served. Easy terms. Send for citalus.

Easy terms. Send for Citalus.

THE EAGLE TOOL CO., Dept. A. Cincinnati, O.

Your Vacation

may be spent in one of Nature's playgrounds, where buoyant, clear air, 1,200 closely linked lakes and streams, genial sunshine, virgin woods and highlands, splendid trout-fishing, cooking that will make you fat, canoeing, loafing, and running across mighty nice people will re-create you in mind and body.—Algonquin Park and surrounding district in Ontario, Canada, is the place, and the Grand Trunk Railway System is the way. Through car connections from Boston, New York, Buffalo and Chicago. Write for our resort booklets on Algonquin Park, Muskoka Lakes, Georgian Bay, and Temagami Region to

T. H. Hanley, N. E. Pass, Ag't GRAND TRUNK RAILWAY SYSTEM, 360 Washington St., Boston