Scientific American





A Handy Book Ter TOOL CATALOGUE To Have Montgomery & Co.'s Tool Catalogue It is illustrated throughout and de-scribes and prices Tools. 704 pages, 6% x 4% ins. The latest edition, with dis-count sheet by mail for 25 cents. MONTGOMERY & CO., 105 Fulton St., New York City. GATALOGUE Nº21

****** **OIL--SMELTER--MINES** Dividend-Paying Mining, Oil and Smelter Stocks, Listed and Unlisted, our Specialty, DOUGLAS, LACEY & CO. Bankers & Brokers, Fiscal Agents, Members N. Y. Consolidated Stock Exchange. 66 BROADWAY & 17 NEW ST., NEW YORK. Booklets giving our successful plan for realizing the large interest and profits of legitimate mining, oil and smelter investments, sub. blanks, full particulars, etc., sent smeller investments, sub. Dianks, full particulars, etc., sent free on application. Ű, Washboiler, E. Burns Washing machine, N. Densler Washing machine, M. J. Dunn. Washing machine operating means, J. R. Carter Watchcase spring, C. Nohs, Jr. Watch movement boxes, etc., holder for, C. J. Obey, Jr. . 724,431 . 724,604 724,926 724,792 724,718

Watch movement boxes, etc., holder for, C. J. Olney, Jr. Water cooler, Z. F. Bowman Water to washstand basins, etc., electrical control of the flow of, I. G. Water-man Water tube boiler, F. M. Faher Weather strip, S. E. Moore Weft forsk, J. H. Foster Weft forsk, J. H. Foster Weft fulling die, link, W. N. Gourley. Weit hutting machine, C. L. Eaton. Wheel, W. H. Laswell Wheel rim attachment, traction, G. A. Lavender 724,726721,563724,568724,828724,895

Lavender Lavender Whip, H. F. Moore Windmill, A. Morrisson Window, P. O. Hultmark Window, P. O. Hultmark G. Eastman G. Eastman 724,896 725.004 724,914 725,000 724.683

DESIGNS

36,280

40,041

40,050

40,051 40,035

40,058

Decalcomania transfer sheet, R. Whyte.... Dish or similar article, covered, A. Mount-36,282 ford 36.279 36.273 36,275 36,278

TRADE MARKS.

Asphalt and products derived therefrom, Orinoco Asphalt, Gesellschaft mit Re-

40,057 40,066 40,043 40,074 40,060 40,075 40,038 40,044 40.034 40.059 40,047 40,077 40,082 40,081

40,076 40,070 40,046

40.073 40,052 40,037 40,053 40,078 40,078 40,042

40,069 40,068 40.048

40,080 40,054 40,065 40,062

LABELS.

"A Fireman's Discovery,' for medicines,



smelling oil tank stirring the crude oil as it passed through the refining process. The first year he earned just \$300. He was not disheartened. He forgot the present while planning for the future. He worked with unflinching purpose; he took advantage of every opportunity which presented itself. To-day nearly every gallon of oil consumed in this country is purchased of the vast corporation of which he is president.

What is the secret of John D. Rockefeller's success? What is the force which shaped his destiny? According to his oft-repeated statement it is Personal Influence; the power to control and direct the minds of others.

Personal Magnetism, the true secret of personal influence, is the natural birthright of every man and woman. It is a science which can be studied, mastered and applied the same as any other science. The man or woman who is ambitious. who wishes to advance in his or her vocation, who wishes to achieve success far above the average. can develop this wonderful power and wield it with 40,056 40,063 mighty force.

How to develop Personal Magnetism, how to control people in your everyday life without their knowledge, is the topic of a valuable book from the pens of twenty eminent specialists issued by the American College of Sciences. The directors have decided to distribute a limited number of copies of the work free, to people who are really desirous of achieving greater success in life. The Hon. James R. Kenney, ex-Mayor of Reading, Pa., a noted author and scientist, and an officer of the college, 40,071 40,049 has agreed to personally superintend the distribution.

Mr. Kenney says: " Tell me what kind of work you are engaged in and I will send you a book which will put you on the road to success and happiness. It matters not how successful you are, or how much hard luck you may have encountered, I will guarantee to make you more successful, The private information I will send you has been the means of turning the tide of adversity and changing the current in the lives of thousands of people who were ready to give up in despair."

You can develop Personal Magnetism in yourself and use it in your daily work without the knowledge of your most intimate friends. If you have not met with that business or social success which you desire; if you wish to strengthen your will power or memory; if you wish to possess that subtle mind power which dominates and controls men and women; if you wish to master the hidden secrets of hypnotism, you should write for a copy of our elegantly illustrated book to-day. It is absolutely free. It will prove a revelation to you. Address American College of Sciences, Dept. S H 16, 420 Walnut St., Philadelphia, Pa.



X

Ø

MA



MATCH MACHINERY. We manufacture everything pertaining to the busi-ness. The Very Latest Process. We will furnish a manager or teach any purchaser the business. F. W. MURPHY & BRO., 1118 Ashland Block, Chicago, Ill., U.S. A.

WANTED A Man Accustomed to Handling Employees

Competent to take entire charge of a fishing reel manu-factory by a responsible manufacturing concern. To the right man we have a liberal salary to offer and a per-manent position. Address

FISHING REEL MANUFACTURER Box 773, New York

" THIS BEATS NEW JERSEY." Charters procured under South Dakota laws for a few dollars. Write for Corporation laws, blanks, by-laws and forms to PHLIP LA WRENCE, late Ass't Sec. Of State, Huron, S. Dak. or Room K. 20th foor, 220 R'way, N.Y.

FREE Catalogue of Architectural, Scientific and Technical Books. Prospectus for 1903 for "Architects' and Builders' Magazine," monthly \$2 a year. WM. T. COMSTOCK, Pub., 23 Warren St., New York.



Mathematicians Wanted

The profession of actuaryship offers a splendid field for those possessing mathematical ability. as positions command \$4,000 a year and over. Our course is prepared by leading actuaries and is under their supervision. Address

HOME CORRESPONDENCE SCHOOL





Anyone sending a sketch and description may uickly ascertain our opinion free whether an rention is probably patentable. Communica-this strictly confidential. Handbook on Patents descriptive confidential. Handbook on Patents. Pattist athen through Munn & Co. receive the indice without charge. in the



A ha. omely illustrated weekly. Largest cir-culation of any scientific journal. Terms, \$3 a year; four month 1, \$1. Sold by all newsdealers. MUNN & CO. 361 Broadway, New York Branch Office, 625 F St . Washington D. C.

PRINTS.

'Yeager," 10. graphing

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 in-ventors for any of the inventions named in the fore-going list. For terms and further particulars address-Munn & Co., 361 Broadway, New York.

Experimental workfor inventors, any-thing in metal from a single piece to a complete working model. Apparatus for colleges. Exhibition models. Introduc-tion samples of patented articles. Spe-cial tools for making metal novelties. Inventions perfected. Drawings and de-signs worked out from inventors' ideas. Send for circular 9. DADEFIL 4. WEED 6% FRANKLIN Model Shop

PARSELL & WEED. 129-131 West 31st Street, New York.

KNICKERBOCKER MACHINE WORK 8-10-12 Jones Street, New York.



Model Machinery and Experimental Work. W. H. CRAWFORD, 194 Broadway, New York City.

"When One Man Equals Ten"

in the quantity and quality of his work there must be a saving of 90 per cent. That is the great economical characteristic in

Hook's Pneumatic Coating Machine

which paints or whitewashes ten times the superficial area that any painter could cover with a brush in a given time. It gives any surface an evener and more durable coating and is far cleaner than brush work with infinitely less labor and trouble. With this machine we bave put "STA Y-THERE" PAINT on nearly everything from an Ocean Liner to a Row Boat, from a Grain Elevator to a Corn Crih.

"STAY-THERE" PAINT

Is a new chemical substitute for oll-paint at one-fifth its cost. It is weather-proof and fire-proof. Made in white, black, and 24 colors. Circulars, folders, and book-lets free, with price-list, on application to

F. E. HOOK, Manufacturer, It to % HOOK BUILDING, HUDSON, MICH., U.S.A.