

# Weather "Kiosks" at Home and Abroad

Meteorology for the "Man in the Street"

By C. Fitzhugh Talman

THE conservative behavior of Weather Bureau thermometers during the heated term has always been viewed with a certain degree of dissatisfaction by the non-scientific portion of the American public. After a particularly torrid day in an environment of brick and mortar, asphalt and steaming humanity, the wilted citizen, whose sensations have registered a temperature of 100 or more, feels aggrieved at a newspaper weather report recording an official maximum of 85. His only consolation was, until recently, the thermometer at the corner drug-store. This imposing-looking instrument usually soared nearly or quite high enough to confirm his personal estimate of the day's weather; especially if it happened to be hung in such a position as to bask in unobstructed sunshine during a part of the day. Some of these drug-store thermometers are fearfully and wonderfully made. As adjuncts of a quasi-scientific branch of trade they enjoy a certain prestige—along with the charts, also affected by drug-stores, in which the professional long-range weather prophet outlines the meteorological conditions for a month in advance on the basis of the moon's phases, the configuration of the planets, or the maxima and minima of sun-spots.

At meteorological observatories the instruments are exposed in such a manner as to register, as nearly as the general surroundings will admit, the natural rather than the artificial weather. If, as in the case of most stations of the national Weather Bureau, the location happens to be the heart of a city or town, the ideal, not wholly attainable, is to record the conditions that would prevail if the buildings and pavements were not there. The abnormal weather of a city street is of no importance in gaging the weather of the country at large, either with a view to compiling climatic statistics or to providing information of current conditions for the use of the scientific forecaster. On the other hand, the demand of the "man in the street" for an accurate record of the conditions prevailing in his own little sphere is nat-

ural and legitimate; and the official weather service has recently responded thereto by establishing "kiosks."

The first Weather Bureau kiosks were erected in the year 1908, and they have now become familiar landmarks in most of our largest towns. The name "kiosk" officially applied to them is convenient, rather than appropriate. Their architecture is severely classical, and therefore as remote as possible from that of the oriental structures to which this name properly belongs.

Meteorological instruments installed in little pavilions on the public streets are familiar to every one who has traveled in continental Europe. In German-speaking countries these structures are called *Wetter-säulen* ("weather-columns"), as they have a somewhat columnar form. In French they appear to have no generic name, but the writer is aware of one case in France—viz., at Le Mans—in which an installation of this general character has been called a "kiosque météorologique" for the past twenty-five years, although its appearance is not in the least oriental. No English name for these structures existed—probably because the thing itself was unknown in English-speaking countries—until the Weather Bureau decided

to install such arrangements in this country. The catalogues of several foreign instrument-makers were examined with a view to finding the most suitable form of construction. Here the name "kiosk" was encountered as applied to one of these edifices that happened to have some semblance of oriental architecture. *Faute de mieux* this name was adopted by the bureau, although an entirely different style of construction was decided upon.

The external appearance of the Weather Bureau kiosk, which was designed in America, is shown in Fig. 2. The structure, which is of cast iron, painted a light color, is square, and the instruments are installed on the north side, so as to be sheltered as much as possible from the direct sunshine. The other three sides are used for posting weather maps and bullet-

tins and other literature of general interest pertaining to the weather and climate of the locality. The location chosen is the busy center of a town; either a public park or the pavement of a principal street.

Air is freely admitted through gratings at the top and base to the roomy interior, and into this central space project the bulbs of the thermometers and the other actuating parts of the instruments, which are thus screened from the radiation of surrounding objects. The set includes a hair-hygrometer, with a scale of percentages of relative humidity; a plain mercurial thermometer of large size, graduated on the stem in conspicuous figures; self-registering maximum and minimum thermometers, the indexes of which are set by a magnet; a tipping-bucket rain-gage, the receiver of which is placed on the roof of the kiosk, while the dial, recording hundredths of an inch of rainfall, is exposed to view in the north panel; and a thermograph, making a continuous record of the temperature on a band of paper providing for a two weeks' registration. Printed labels briefly describing the several instruments render their use clear to the non-scientific public. The instruments are kept in order, the record-sheets changed when necessary, the

(Continued on page 485.)



Fig. 1.—German weather kiosks in the making.

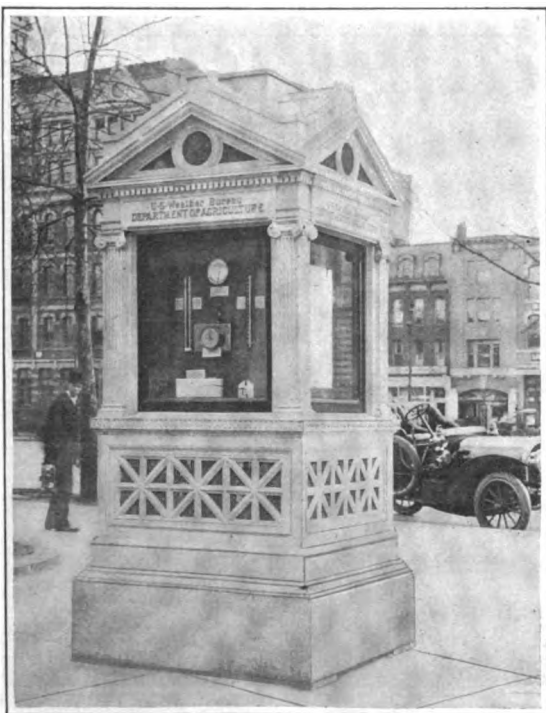


Fig. 2.—Weather Bureau kiosk.

A miniature meteorological observatory for the "man in the street."



Fig. 3.—A well-constructed German kiosk.

Steady ventilation is provided by a revolving fan.



Photo. by Dr. C. Kassner.

Fig. 4.—"Uraniasäulen" in Berlin.

*Bring us  
Your Waterproofing  
and Finishing  
Problems*

With our complete line of **Waterproofing Products, Dampproofing Compounds, Scientific and Technical Paint Products,** we are in best position to solve your problems.

All walls coated with *Trus-Con Stone-Tex*



**TRUS-CON  
STONETEX**

A liquid cement coating for stucco, concrete and brick,—applied with a brush. Uniform in color results. Absolutely dampproof. Weather resisting. Does not chip off, crack or peel like paint. Becomes an inseparable part of the wall, sealing all pores and filling hair cracks, giving an artistic flat finish as hard as flint.



Walls and Ceilings Finished with *ASEPTICOTE*  
Woodwork and Mantel, Finished with *SNO-WITE*

**TRUS-CON  
ASEPTICOTE**

A flat, washable, durable, sanitary, decorative finish for interior walls. Perfectly aseptic and sanitary. Easily cleansed with soap and water. Most artistic in appearance. Manufactured in great variety of tints. Applied on interior surfaces of plaster, cement, brick, wood, burlap and metal.

**TRUS-CON SNO-WITE**

An enamel of the very highest quality for finishing interior surfaces of wood, metal, plaster and masonry. Produces a finish with a delicacy of tone, softness, whiteness and luster that cannot be excelled.

**TRUS-CON  
INDUSTRIAL ENAMEL**

A gloss coating of whitest white, with powerful light-reflecting qualities, for treating factories, work-rooms, enclosed light shafts, etc.

**TRUS-CON FLOOR ENAMEL**

Produces a tough, elastic and reasonably durable finish on all cement floors, rendering them washable, stainproof, oilproof and dustless.

**Trus-Con Waterproofing Paste,** integral waterproofing for concrete.

**Trus-Con Plaster Bond,** a damp resisting paint for interior of exposed walls.

**Trus-Con Por-Seal,** a transparent coating for dampproofing exterior masonry.

**Trus-Con Edelweiss,** a durable artistic enamel for exterior surfaces.

**Trus-Con Dairy Enamel,** durable, sanitary enamel for dairies and creameries.

**Trus-Con Laboratory Enamel,** to resist chemical gases in laboratories.

**Trus-Con Bar-Ox,** most advanced protective coating for iron and steel.



Consult us at this time regarding your present *Waterproofing and finishing problems.* We can help you. Let us send you our literature.

**Trussed Concrete Steel Co.**  
402 Trussed Concrete Bldg., Detroit, Mich.

last during the time that the airship is pushed in or out of its shed. Starting a flight means simply to take aboard passengers and ballast after the ship is at a safe distance from the menacing walls of the shed, and instantly to release all the hawsers. But entering the shed with a brisk wind blowing at right angles to its axis and to the rails is more difficult. In this case the ship is halted in the open over the track, pointing into the wind. One of the front cables is fastened to the rollers nearer the shed on the windward rail. With this set of rollers as a fulcrum the ship is worked around by pulling at the rear end, steadying it along the sides, and simultaneously pulling the lee side down, until it becomes parallel to the rails. It is then a simple matter to fasten the remaining cables, unship passengers and ballast, and roll the ship as safely into the shed as though it were a train of railroad cars.

It may be worth noticing that this device is the same, though more primitive and still depending on the co-operation of a great number of men, as the one suggested in the *SCIENTIFIC AMERICAN* directly after the accident to the "Deutschland II."

Of equal importance to the docking of these big ships is their safe anchoring where there are no sheds. A safe anchorage over unobstructed grounds, mostly parade grounds, has now been prepared near almost every German city. The holding device is a development of the method by which in the past severe squalls occasionally have been weathered. It is different in so far that the pivotal point around which the ship freely swings into the wind's direction is now not on the ground but in the ship's own frame. Even with the short single bow cable formerly used successfully, jerks which strained the frame and the cable were not entirely avoided in gusty winds. (Too much play for the bow in the accident at Limburg snapped the long cable and freed the ship, though it did not damage the frame.)

In place of one cable there are now four, giving greater safety. They are part of the ship, and may be seen hanging from the bow. They are fastened to a ring that pivots around a strong pin in the reinforced framework. To anchor the ship, they are made fast with their free ends to four heavy cubes of concrete, each 3¼ feet in diameter, sunk into the ground, and so arranged that the four cables evenly radiate toward them from their pivot on the bow. Thanks to its rigidity, the ship now turns around the apex of this pyramid of cables, as smoothly as a new weather vane around a steeple. Unshipping ballast at the bow makes this pyramid very rigid.

**Weather "Kiosks" at Home and Abroad**

(Concluded from page 477.)

maximum and minimum thermometers set, etc., by an employee of the local Weather Bureau station.

As a substitute for the ill-exposed and often ill-constructed drug-store thermometer the kiosk amply justifies its existence in providing an accurate record of the conditions to which the urban population is exposed. In hot weather the thermometers in the kiosk read many degrees higher than those of the regular Weather Bureau station. The following comparison of maximum readings during a summer hot spell at Washington is instructive:

July, 1911.	Weather Bureau Observatory.	Kiosk.
	Degrees Fahrenheit	Degrees Fahrenheit
2	97.7	105.0
3	99.1	106.5
4	96.7	105.0
5	97.8	104.5
6	98.3	105.5
7	95.0	102.7
8	84.2	93.5

When a brisk wind is blowing the difference between observatory and kiosk temperatures is less than shown by the above comparison. The propriety of artificially ventilating the kiosk—the plan adopted in a type of kiosk used in Germany, as described below—has been con-

**Why Nelson's Is Known As  
The Perfect Encyclopaedia**

There Are Four Conclusive and Common Sense Reasons:

1. **It Cannot Grow Old** because our subscribers are furnished with at least 500 pages of new information each year—semi-annually, in March and October—which brings them up to the minute on all important events. These pages are properly numbered, and by simply turning a nut in our loose-leaf binding you can remove the obsolete pages, and insert the new. Your Encyclopaedia will be just as much up to date twenty years from now as it is today. No other Encyclopaedia CAN possess this feature, as it is fully protected.

"It Cannot Grow Old"



Reg. U. S. Pat. Office

That Little Bar and Nut has solved the Problem! It has put all other Encyclopaedias out of date!

Bound in 12 Handsome Volumes

2. **Accuracy.** There are three permanent editorial staffs maintained by Nelson's—one in the United States, one in Great Britain, and one in Canada—headed, as Editor in Chief, by John H. Finley, LL.D., President of the College of the City of New York. These three great Editorial Staffs have gathered about them a corps of contributors who stand supreme as authorities in their respective subjects, and who, immediately any new information is available, forward a treatise to us to be included in our current supplementary pages. Nelson's is the only Encyclopaedia supporting more than one Editorial Staff.

3. **Minute Details Available.** All subscribers are given an unlimited membership in Nelson's Research Bureau. This entitles you to question us on any subject of the moment in which you may be especially interested, with the assurance that you will promptly receive the latest information and references to works which treat of that subject in minute detail. Letters to us from the greatest

educational and technical workers show this service to be invaluable. It is only our unremitting search for fresh matter to supply our new pages that makes it possible for us to offer you this great service without additional cost.

4. **Educational Features.** In addition to many special articles of the greatest instructive value, we have imported, especially for this Encyclopaedia, Models and Manikins which are wonderful in their detail and their simplicity. Such interesting subjects as the Human Body, Automobile, Turbine, etc., are so presented that even a child can understand and be instructed by them. No other Reference Work possesses this important educational feature.

**Nelson's Perpetual  
Loose-Leaf  
Encyclopaedia**

And Research Bureau for Special Information

Approved, adopted and used by U. S. Government Departments and by Universities, Colleges, Libraries and School Boards throughout the country. Following are among the U. S. Departments and Colleges now using Nelson's:

- |                       |                          |                     |                  |
|-----------------------|--------------------------|---------------------|------------------|
| Navy Department       | Bureau of Corporations   | Bureau of Chemistry | War Department   |
| Department of Justice | National Museum Library  | Army Service School | Weather Bureau   |
| Commerce and Labor    | University of Rochester  | Reclamation Service | Knox College     |
| Department of State   | University of California | Chief Signal Office | Indian Bureau    |
| Cornell University    | University of Michigan   | Harvard University  | Etc., etc., etc. |

Also the King of England, The Emperor of China, The Mikado of Japan, The Premier of Canada and State Departments throughout the world. Nelson's Perpetual Loose-Leaf Encyclopaedia contains more than 70,000 subjects—treating over 1,000,000 topics—7,000 illustrations—500 maps.

Each article in Nelson's is clear, concise in treatment, and embodies the results of the very latest scholarship and research. For example, articles on the Death of Edward VII. and the Coronation of George V. of England; Flying Machines and Mono Railways; Dreadnoughts and Submarines; Trusts and Cost of Living; Tunnels; Turbines; Steel and Iron Construction; Christian Science and Psychotherapy; Hookworm; Pellagra; Tuberculosis; Cancer; the 1910 Census in the United States, England, Germany; also The Election of Madero; The Destruction of Austin, Pa.; The War Between Turkey and Italy.

**Exchange**—We are constantly receiving inquiries asking us to make an allowance for old encyclopaedias to apply as part payment on Nelson's. We have therefore prepared a price list, stating the amount allowed, which will be mailed upon request.

Write today for the FREE loose-leaf portfolio, containing Sample Pages, facsimile Certificate of Membership to Nelson's Bureau of Research for Special Information, facsimile endorsement letters from Scientists and Educators, and full information about Nelson's Loose-Leaf Reference System. Our special introductory price and easy payment terms interest all who appreciate a bargain.

**THOMAS NELSON & SONS, DEPT. 21M. 381-385 Fourth Ave., New York**

Founded in Edinburgh 1798 OVER 100 YEARS IN BUSINESS Established in New York 1854  
Publishers of the American Standard Bible—Endorsed by Universities, Theological Seminaries and Colleges throughout America

**Magical Apparatus.**  
Grand Book Catalogue. Over 700 engravings  
25c. Parlor Tricks Catalogue, free.  
MARTINKA & CO., Mfrs., 436 Sixth Ave., New York

**Incorporate Your PATENTS and BUSINESS in ARIZONA**

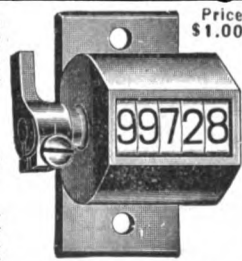
Laws the most liberal. Expense the least. Hold meetings, transact business anywhere. Blanks, By-Laws and forms for making stock full-paid for cash, property or services, free. President Stoddard, FORMER SECRETARY OF ARIZONA, resident agent for many thousand companies. Reference: Any bank in Arizona.

**STODDARD INCORPORATING COMPANY, Box 8000 PHOENIX, ARIZONA**

**Veeder Counters**

to register reciprocating movements or revolutions. Cut full size. Booklet Free.

**VEEDER MFG. CO.**  
18 Sargeant St., Hartford, Conn.  
Cyclometers, Odometers, Tachometers, Counters and Fine Castings.  
Represented in Great Britain by HARRY & CO., LIMITED, 6 City Road, Finsbury Square, London, E. C.; France, by MARTEY & CO., LIMITED, 107 Avenue Parmentier, Paris; Germany, Austria Hungary and Scandinavian Countries by LEON. LOEWY & Co., Hutter St.-asse 17-20, Berlin.



**"SWAN SAFETY" FOUNTPEN**

Is an investment that pays a dividend 365 days in every year. Always ready to write and never blots or leaks.  
Ask any stationer or jeweller to show you a selection of "SWAN SAFETY" FOUNTPENS  
Nibs or pen points made Price 2.50 and to suit any hand up  
**MABIE, TODD & CO.**  
17 Maiden Lane NEW YORK Republic Building CHICAGO



**A Water Supply**  
solves many farm troubles. Have plenty of water without pumping expense or bother just install an automatic Rife Ram. Raises water 30 ft. for each foot of fall—no trouble or pumping expense. Satisfaction guaranteed. Booklet, plans, estimate, Free.  
Rife Engine Co., 2533 Trinity Bldg., N.Y.

**ONLY \$36.00 The Wonderful ILLUSTRATOR LANTERN**

With our improved famous ALCO RADIANT LIGHT  
This new 1912 Model has many improvements and double brilliancy. Write for illustrated circular of this and Lanterns of all styles and lights at bottom prices.  
**IF YOU OWN A LANTERN** we should have your name to mail to you our regular announcements of new slide and lecture sets, 75,000 Lantern Slides to rent.  
**POST CARD MAGIC LANTERN** reflects image of postcard or any other picture or object. Prices, \$2.75, \$12.50, \$25.00, \$50.00, express paid.  
**WILLIAMS, BROWN & EARLE, Inc., 915 Chestnut St., Philadelphia, Pa., Lantern Dept. 6**  
Engineering, Microscope, Optical, Scientific, Photo, Lantern Slide Supplies

**Here's a  
Christmas suggestion that is new**

Also one that you will recognize at once as wonderfully pleasing and timely—  
Can you imagine a more acceptable gift for a man than a Carborundum Razor Strop or a Carborundum Razor Hone with its remarkable sharpening qualities? —  
Can you imagine a more appropriate gift for either man or woman than a Carborundum octagonal, stag-handled knife sharpener—  
Or for the sportsman, than a Carborundum sportsman's stone in handsome pigskin case with strap at the back for fastening to the belt? —  
Carborundum is the most remarkable sharpening agent the world has ever known—It is intensely hard and sharp—practically crushed diamonds made into sharpening stones for every conceivable sharpening requirement from the honing of a razor to the sharpening of an axe.

**Put up With Great Care in Handsome Holly Covered Boxes for the Christmas Season**

and on sale at hardware stores the country over—If your dealer doesn't have them send direct—  
Don't neglect this new and wonderfully appropriate Christmas offering.

No. 79-F	Knife Sharpener, octagonal, solid stick of Carborundum, stag handle in neat box,	\$1.00
No. 78-F	Knife Sharpener as above with wooden handle,	.50
No. 103-F	Carborundum Razor Hone—very fine and efficient in neat box,	1.00
No. 411-F	Carborundum razor strop—heavy weight, genuine selected horsehide, razor case handle, trimmed with brass open swivel hardware,	1.75
No. 131-F	Round Combination Stone for sportsman in leather case—strap for belt,	1.00

Write today for Carborundum Book—Order Christmas packages early

**The Carborundum Co.**  
Niagara Falls, N. Y.

sidered. It is a question, however, whether the structure with this modification would answer so well the purpose for which it is intended; since the populace, whose environment the kiosk instruments are designed to gage, does not habitually carry an electric fan about the streets, nor even continually wield the palm-leaf in the busy round of daily occupations. On the other hand, neither is the populace inclosed in a cast-iron cage, and possibly finds itself more comfortable in hot weather than would the kiosk thermometers if they had human sensibilities; so that the question of artificially ventilating these structures may be regarded as an open one.

The meteorological kiosks of Europe, in contrast to those just described, are not maintained by the official meteorological services of the several countries. Some have been erected by instrument-makers, as a means of displaying their wares; others are installed at health-resorts, as an attraction to visitors; but the majority are mere sign-boards for the display of miscellaneous advertisements, which occupy most of the surface space, the instruments being relegated to any odd corner that can be spared. Their architecture varies according to the taste of the designer, without, as a rule, any regard to the proper exposure of the apparatus. Some of these structures, especially those erected by the municipalities, are most imposing—to look at. One built some twenty years ago by the city of Berlin cost 7,000 marks (\$1,666). In this structure the instruments were installed behind glass in shallow unventilated panels, and in summer all of them were exposed during part of the day to direct sunshine. The apparatus included a mercurial barometer hung at such an elevation that no one could read it without the aid of a step-ladder. All the instruments were grossly neglected, and those that should have shown identical readings exhibited instead the most remarkable discrepancies.

Latterly, however, certain foreign instrument-makers, especially in Germany, have turned their attention to the production of kiosks satisfying scientific as well as popular and artistic requirements. Probably the first German kiosks to be constructed according to scientific principles were those erected in Berlin about 1891 by the Urania Uhren- und Säulen-Gesellschaft, and known as "Uraniasäulen." (Fig. 4.) These were intended primarily for displaying advertisements, but contained well-constructed and well-exposed meteorological apparatus, ventilated by a clockwork-driven fan, according to the principle of the Assmann aspiration-psychrometer. Unfortunately the Urania Company did not have a long career; the kiosks were bought by the municipality, and in most cases deprived of their instruments. In a few, however, the instruments are still kept in operation.

Excellent weather kiosks are now manufactured in Germany, though one sees plenty of the opposite kind at the "Kurorte" and other frequented places in that country. The type of kiosk constructed by R. Fuess, of Steglitz, near Berlin, is shown in Fig. 3. This contains a barograph, hygrometer, and thermograph, the pens of which trace their records on a sheet of paper wound around a single revolving drum. The apparatus is ventilated, according to the Assmann method, by a revolving fan, driven by electricity or water-power—usually the latter. Kiosks are also manufactured on a large scale by W. Lambrecht, of Göttingen (Fig. 1) and usually house some of his special instruments; such as the "polymeter" and the "weather-telegraph." The latter comprises a particular form of hygrometer and an aneroid barometer, the dials of which stand side by side; while underneath is a series of diagrams which, it is claimed, enable one to forecast the weather from the indications of the two instruments.

### The Demand for Young Men in Electrical Engineering

(Concluded from page 479.)

conomic principles and a command of those processes of analytical reasoning which can be obtained only by hard study.

The graduate who adds judgment and gumption to the qualities derived by the study of the fundamental sciences and

## "Inventors and Inventions"

A NEW BOOK JUST PUBLISHED BY H. ROBINSON, 41 W. 33rd ST., NEW YORK. INDISPENSABLE AND INTERESTING TO EVERY INVENTOR OR PROSPECTIVE INVENTOR. PROFUSELY ILLUSTRATED. CLOTH BOUND, \$1.00. IT TREATS AUTHORITATIVELY IN A CLEAR, POPULAR AND ENTERTAINING STYLE THE FOLLOWING SUBJECTS:—

How to Invent, Financing a New Invention, Marketing a New Invention, Advice to Inventors, The Glory of Invention, Pictures of Famous Inventors, Various Ways Employed to Cheat and Rob Inventors, Present Available Means of Protecting an Invention, Treatment the World accords to Them, and Other Important Subjects.

EVERY HOME LIBRARY SHOULD HAVE

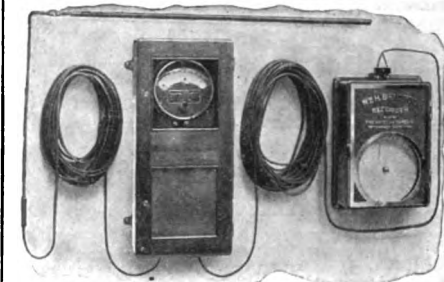
### Stories of Useful Inventions

By S. E. FORMAN, author of "A History of the United States," etc.

Sixteen "true stories," stories of human progress as shown in man's making of the match, the stove, and other inventions which are most useful to man in his daily life, told to stir and hold the interest of the young reader.

MANY PICTURES. 12mo, 248 PAGES  
Price \$1.00 net, postage 11 cents

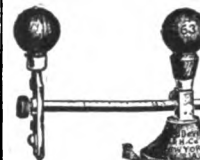
Published by THE CENTURY CO. New York



COMBINATION INDICATING AND RECORDING UNIT OF THE WM. H. BRISTOL ELECTRIC PYROMETERS

for high temperature, with Recorder for installation in Superintendent's office. Write for particulars.

THE BRISTOL COMPANY Waterbury, Conn.



This "Red Devil" Circular Glass Cutter No. 263 cuts perfect circles from 2 to 22" in window or plate glass. It's the ONLY practical circular hand glass cutter made. It's a Red Devil. If your dealer can't furnish it, we will send one prepaid for \$1.25.

Smith & Hemenway Co.

150 Chambers Street New York, N. Y.

## Classified Advertisements

Advertising in this column is 75 cents a line. No less than four nor more than 12 lines accepted. Count seven words to the line. All orders must be accompanied by a remittance.

### BUSINESS OPPORTUNITIES.

WANTED PARTY to manufacture my multiple tube pneumatic tire for Automobiles and Bicycles, patented Oct. 17, 1911. A money maker. For further particulars address, Dr. Robert B. Gray, Pt. Carbon, Pa.

WANTED FOR EXPORT.—Red earth as used for metal cleaning preparations, also Fuller's earth as used for toilet preparations. Submit samples, prices and full particulars. F. O. B., N. Y.; Export, Box 713, N. Y.

INVENTORS.—Send a copy of your patent to us and we will send you our contracts outlining our liberal manufacturing offer. For further particulars address, Atlantic Supply Co., Long Branch, N. J.

BUSINESS OPPORTUNITY.—Wanted a partner to help manufacture and sell a newly patented automobile accessory. First class seller, no competition. For further information address, T. F. Hutchings, 113 W. 52d St. N. Y.

GET BUSY.—Learn the great Palmer system of making name plates, house numbers, signs, etc. Make \$15.00 a day. Send for beautiful thirty-two page book—sixty-five illustrations. E. E. Palmer, Wooster, Ohio.

### FOR SALE.

LOCAL REPRESENTATIVE WANTED.—Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and become independent for life. Write at once for full particulars. Address E. R. Marden, Pres., The National Co-Operative Real Estate Company, L 878 Marden Building, Washington, D. C.

### OLD COINS.

OLD COINS.—\$7.75 paid for rare date 1853 quarters, \$20 for a \$4. Keep all money dated before 1864, and send 10c. at once for New Illustrated Coin Value Book, 4 x 7. It may mean your fortune. Clark & Co., Coin Dealers, Box 46, Le Roy, N. Y.

### PATENTS FOR SALE.

FOR SALE.—Patent No. 999,992. New mechanism for clutches. Patent applied to pulleys, but not exclusive, cheapest; most positive wear adjusting clutch made. Have working model. E. W. Bean, Lansdale, Pa.

PATENT FOR SALE, No. 983,775, Fire Escapes, issued Feb. 7, 1911, for copy of same can be obtained from Victor J. Evans, patent office. For further particulars write C. W. Schumann, Newell, S. Dak.

### REAL ESTATE.

TEXAS INVESTMENTS.—Buy farm orchard garden lands near Houston, the greatest and most prosperous city in the southwest, where values are going up all the time and fortunes made in real estate in short while. Easy terms if desired. Single crop pays for land; several crops annually. Address B. C. Robertson, 501 Kiam Bldg., Houston, Tex.

### WANTED.

WANTED.—One mechanical engineer at \$2,500 per annum. A competitive examination will be held December 13, 1911, at the U. S. Naval Academy, Annapolis, Md., for filling the above position. For further information address "Superintendent," U. S. Naval Academy, Annapolis, Md.

# If New York Should Burn?

IF New York should burn, like Baltimore or San Francisco, it would bring financial disaster on this entire continent. New York today is considered by engineering and insurance authorities to be in fully as great danger of destruction by fire as were Baltimore and San Francisco before their fires came. The story of the conflagration danger in New York—which, considered as a whole, is growing worse from year to year—is told in a carefully prepared article by Arthur E. McFarlane in the December Number of

# McCLURE'S MAGAZINE

Edited by S. S. McClure  
Fifteen Cents A Copy  
Dollar-and-a-Half A Year



The McClure Publications, Inc.  
McClure Bldg., New York