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IF IT IS. An effort for you to read or you cannot see distant objects clearly, you can get help by wearing a pair of our scientifically fitted eyeglasses or spectacles.

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THE SUN DIAL AGAIN

MANY BEING PURCHASED BY OWNERS OF COUNTRY ESTATES.

Description of a Recent Invention by Which the Ordinary Clock Time May Be Told—Most Interesting of All is the "Analemmatic Dial"—Shows Sun's Declination for Every Day in the Year.

With many other things highly prized in the old days, the sun dial is coming back into favor. In these times of prosperity, when there is an art sale every other day, adorning country homes is a passion. There must be room left in the houses that the occupants can move about in more or less comfort, so that the attention is now largely given to purchasing objects of art to adorn the lawns. The modern taste will not tolerate the unnatural cast-iron stages and other grotesque objects which once were the pride of the pretentious, with the result that there has been a demand for sun dials quite unexpected, but speedily gratified by those whose business it is to have in stock what is most in demand.

These dials are many and some of them are unique. There is the equatorial, horizontal, vertical, south,



THE OLD-TIME SUN DIAL.

horth, east, or west and even the portable, or ship dial. They are made of elaborately engraved heavy brass, bronze, slate, or marble, and are all finding a ready sale.

Perhaps the most interesting of all is the "analemmatic dial." This has a movable style, or gnomon. There is a scale of the sun's declination for every day in the year, so that the shadow falls on the hours and their division even to eighths on the outer circle. From 4.30 to 7.30 are the hours designated in latitude 41 degrees. On the sliding scale in the middle of the dial the different months are designated so that when the style, or gnomon, is properly adjusted to the date by set screw running under the dial, the shadow will cover the true hour angle indicated in the ellipse.

This dial is also sometimes combined with the old-fashioned dial, so that there is the advantage of showing the difference between the sun's time and that of a well-regulated clock, as the old-fashioned dial gives only the sun's time, and the analemmatic dial shows the correct mean, or clock, time for each day in the year when the sun shines enough to make a shadow, without having to refer to the tables of the equation of time. Speaking of his new dial, and the history of dials, the New York Sculptor Dennis B. Sheahan says:

"Astronomy teaches that the earth moves in an orbit about the sun, completing a revolution in a year, while at the same time it revolves uniformly from west to east on its axis, and, although it changes its place, is always parallel to this fixed imaginary line, or axis. "By the first of these motions the sun appears to move around the heavens, completing a revolution in the course of a year, and by the second, the sun, and all the heavenly bodies have an apparent diurnal motion about the earth from east to west.

"The motion of the earth in its orbit is not equable, and therefore it happens that the apparent motion of the sun is not quite uniform; besides the plane of the motion does not coincide with the plane of the diurnal motion. For these two reasons the apparent diurnal motion of the sun differs a little from uniformity.

"But in the theory of the dial we are to suppose that the sun's diurnal motion is always perfectly uniform."



THE ANALEMMATIC DIAL.

form, and that it moves through the day in a circle parallel to the equator. Now as neither of these presumptions is strictly true, the time of the day that is shown by a dial that is not analemmatic will in general differ from that shown by an accurate clock. The difference, however, admits of exact estimation, and the tables of my dial show the exact declination every day in the year.

"Dials and their making have been a passion with me for many years, and it is not so very long ago that I conceived the present improvement, and I do not believe that anything like it has ever before been attempted.

"The making of dials, of course, requires a certain knowledge of astronomy, a mathematical mind with an acute perception of the truths of geometry. The history of dial construction is one of the most interesting in the world, dealing as it does with the works of man in his progress, his various civilizations, the story of the nations, and the calling to mind of many of the great characters in each of these civilizations.

The history of the dial is also filled with interesting customs of many peoples showing how they came to divide time into hours and seconds.

"This division of time, is, of course, of the greatest importance, and must have early engaged the attention of the human race. We find in Second Kings (Chapter xii, Verse 9), that by a miracle the shadow went back ten degrees on the sun dial, as a sign given to Hezekiah that he should recover when he was sick unto death."

"The men of the world long before us had very different ways of calculating time. The length of the day was first determined by the rising and setting of the sun. The Babylonians began the day at sunrise, and reckoned that it continued until the sunrise of the next day. The Athenians considered the interval between succeeding sunsets as a day, which they divided into two parts, the natural night extending from sunset to sunrise.

"The Egyptians and the Babylonians were the first to determine correctly the position of the meridian. The Egyptians showed their skill by placing the Pyramids in the direction of the cardinal points. They are believed to have been the first to divide the day into twenty-four equal parts.

"The Romans were very late in adopting anything like a tolerably accurate method of dividing time. Even in the fifth century after the building of Rome, the only periods of the day noted were the rising and setting of the sun, and midday, which was proclaimed by a herald, when he saw the sun from the Senate house near the Rostra. The first sun dial in Rome is supposed to have been placed by Papius Cursor about the year of the city 460, that he might fulfill a vow made by his father.

"Modern dials in general indicate the hours by the position of the shadow on a plane, but there is reason to believe that some of the earlier dials showed the time by the length of the shadow. We all know that savages have had a fairly accurate perception of the passing of time by the length of the shadow of the body cast on the ground. The dial indicating time by the length of the shadow had the disadvantage of requiring a table of numbers to show the length of the shadow at every hour for the different times of the year. The Arabians, splendid mathematicians and astronomers, were clever in counting time by the shadow; and even the Turks paid attention to it.

"With the Renaissance the science of gnomonics was again cultivated in Europe. It was a Portuguese astronomer who first noticed and explained the phenomenon of the retrogradation of the shadow on the dial in different latitudes. Some had supposed that this was an explanation of the Bible story of the dial of Ahaz, but this is quite inadmissible in the light of the better knowledge of the latitudes."

They Proclaim The Merits

To the World of Dr. Clarke's Wonderful Little Red Pills.

Sir,—That the world may know of the merits of Dr. Clarke's wonderful Little Red Pills, I ask the newspapers to publish the following. I was, for years, a martyr to stomach trouble, and had no hope whatever of being cured; but, on seeing a testimonial from a friend in Ontario, in one of the Toronto papers, resolved to write to her and found that she had actually been cured of the same trouble by Dr. Clarke's Wonderful Little Red Pills. I at once bought three boxes and took them according to directions and they almost cured me. I purchased three more boxes, and am thankful to say that I am entirely cured. I have no splitting headaches now, no burning pain in my stomach; in fact, have a new lease of life.

MRS. JAMES HUNTER, Miami, Man.

To the Editor of the Guardian Sir,—We make the following proposal to the readers of the Guardian. To any one who is a subject of rheumatism, (no matter how long standing) or any blood disease, enumerated below, and will give Dr. Clarke's Wonderful Little Red Pills a fair trial, and are not fully and completely cured, we will refund the money paid for the pills. If no good results follow we will forfeit \$10 cash.

We have yet to know of a single case where this wonderful medicine has not been almost entirely successful in its work of relieving suffering humanity, Dr. Clarke Medicine Co., Peterborough.

Dr. Clarke's Little Red Pills are a positive and certain cure for rheumatism, asthma, paralysis, coughs, lame back, indigestion, all stomach and liver troubles, female complaints, even when the diseases have been standing for many years; the most stubborn cases will yield. For sale by C. D. Rankin, MacDowall & MacKinnon, Geo. E. Hughes, H. A. Ellis, J. G. Jamieson, A. W. Reddin, Johnson & Johnson, Baddin Bros, or sent direct by mail, by addressing Dr. Clarke Medical Co., Peterborough, Ont., 50 cents per box, or 3 boxes for \$1.00. Dr. Clarke's Sure Cure for Catarrh, and Dr. Clarke's Sure Cure for Eczema, same price, \$100 will be paid for any case that it will not permanently cure.

PREMIER ILL.

St. John's, Nfld., May 20.—The Colonial Legislative Council met this afternoon. The Governor, Sir Cavendish Boyle, in a speech from the throne, congratulated the Colony on the prosperity in all branches of the Colony's industry.

The Sun Life Assurance Company of Canada

IS "Prosperous and Progressive."

HOLLAND A. WHITE, ESQ., District Manager. SUN LIFE ASSURANCE COMPANY OF CANADA, HAMILTON, ONT.

DEAR SIR,—I have to-day received through your courteous and obliging representative for Barrie, Mr. Thos. Reecroft, your Company's cheque for \$1,246.05, being payment of 15-year endowment for \$1,000 and profits of \$246.65 for which kindly accept thanks.

Being a firm believer in life assurance, I carry policies in the three leading Canadian companies and one in an American company, but I have always received larger profits from the Sun Life of Canada than from any other company. A short time ago a 15-year Endowment policy for \$2,000, with accrued profits, matured in another Canadian company, and, for the same period, the profits were almost identical on this \$2,000 policy and on the \$1,000 I held in the Sun Life of Canada. This is a fair comparison, and shows distinctly my reason for applying for \$2,000 more assurance in the Sun Life of Canada. I might also state that the profits earned on my policy just matured is more than the agent with whom I placed the assurance told me they would likely amount to. His estimate was \$1,230, but the amount received was \$1,246.

I need hardly tell you that I am delighted with the good results, and will be pleased to speak a good word for the Sun Life of Canada whenever an opportunity presents itself.

I remain, yours faithfully, D. H. MACLAREN, Manager, Charlottetown.

CLOTHING

Those Suits we are offering and selling too at \$4.50, \$5.00, \$6.00, \$7.50, \$9.50, \$10.00 are positively better value in every way, style, fit, material and making than you can get elsewhere for the same price—Our guarantee goes with every Suit. If not satisfied your money refunded.

J. B. MacDonald & Co. Leaders of Low Prices.

Choose The BEST!

The Tobacco Epicure who does not use the Hickey Twist, Pearl or Ruby Has never derived that real enjoyment which is his. They are the gems of the trade. FINE CUT MIXTURES IN 1 and 2 POUND TINS. HICKEY & NICHOLSON TOBACCO MANUFACTURERS Queen St. Charlottetown, P. E. I.



The Pride of the Kitchen

In the olden days was, the shelf on shelf of plates, platters and pans. Well, there's no reason why the belle of the kitchen to-day need be ashamed of the culinary department, if her utensils were purchased from us—for we have all the good old things, all the modern utensils, appliances, conveniences.

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