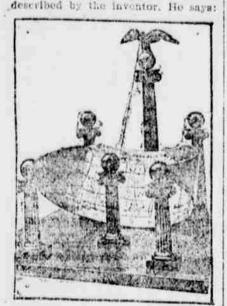
SUN DIAL FOR STANDARD TIME.

Advantages Claimed by the Inventor for This Over the Ordinary Form, The ordinary sun-dial naturally indicates sun-time, and the sun as a timepiece is not accurate, because its motion is not uniform throughout the year. A dial that will indicate standard time, or the local time of any particular place, if desired is described in the Literary Digest. The Crehere dial as it is called is one solid piece of bronze, except the face, which is an engraved bronze cylindireal sheet whose axis is inclined to the horizontal plane at an angle equal to the latitude of the place and directly north. The shadow is cast by a small bend held by a wire kept | stretched by a spring, as shown in the picture. The scientific principle on which the dial depends is thus-



Sun-dial to tell standard time.

"The relative motion of the sun and earth is such that the sun's apparent path in the heavens, when mapped with reference to the horizon plane of some fixed locality, is only completed so that the sun begins to describe approximately the same path because of reveral component motions of very long period, which are for the present purposes of the second order of magnitude and may be neglected. Considering the sun's path results from two component motions, the rotation of the earth on its axis once per day and the revolution in its orbit once per year, it will be seen that this path is one continuous curve witch is approximately completed only once a year, and will be retraced each succeeding year. Each day the path is almost a complete circle, but the circle is not quite closed, as the path the following day is a similar circle very near the preceding one, so that the path resembles a screw thread except that the pitch of the screw is not uniform throughout the year, but changes from its maximum at the time of the equinoxes to zero at the solstices.

"For a sun-dial which is to indi cate time it is necessary to know more than the mere path of the sun in the heavens, which is only a geometrical curve described in space. It is necessary to know where the sun is situated on this curve at all times. If a point is marked on the sun's path, as above described, for every hour throughout the year, it will be found that the points made at the same hour, say 3 o'clock, on succeeding days He very close together as compared with points corresponding to succeeding hours of the same day. At 3 o'clock on the succeeding day the sen would have made a complete revolution in its screw-thread path, and will then be at the correponding point on the next adjacent thread. If it were exactly at a point for each succeeding day, all the 3 o'clock points for example, would be located The surface may be almost any shape a horizontal plane is objectionable because the shadow of the bend becomes indistinct at hours distant from noon, owing to increased distance from those parts of the plane on which it is then thrown; also because the system of curves would differ with locality.

"If in such a dial it is desired to indicate the time of some other locality it is merely necessary to revolve the cylinder about its axis by an amount corresponding to the difference in time between the two places. This has been done whenever standard instead of local mean time is wanted, or when Greenwich time instead of local mean time is desired."

There is more Catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Science has proven catarrh to be a constitutional disease and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a teaspoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials.

Address: F. J. CHENEY & CO.

Toledo, Ohio.

Sold by Druggists, 75c. Take Hall's Family Pills for constipation.

Most people know that if they have been sick they need Scott's Emul-

sion to bring back health and strength.

But the strongest point about Scott's Emulsion is that you don't have to be sick to get results from it.

It keeps up the athlete's strength, puts fat on thin people, makes a fretful baby happy, brings color to a pale girl's cheeks, and prevents coughs, colds and consumption.

Food in concentrated form for sick and well, young and old, rich and poor.

And it contains no drugs and no alcohol. ALL DRUGGISTS; 50c. AND \$1.00.

JURY LIST FOR DECEMBER COURT

GRAND JURGES P. K. Shultz, Sugarloaf township. Boyd Vance, Orange township. Jeremian Sayder, Locust township. George W. Getty, Franklin twp. Jesse Hess, Sugarloaf township, W. H. Utt, Bloomsburg, Seth W. Fenstermacher, Main twp. Harvey Hess, Benton township. Abraham Broadt. Hemlock twp. Scott McHenry, Stillwater. Wm. Tilley, Hemlock township. David Walsh, Centralis. Charles Hughes. Locust township. Howard Shultz, Bloomsburg. W. H. Greenley, Pine township, A. J. Gensil, Catawissa township. Harry Hendershott, Madison twp. Grant Martz, Briarcreck. Richard Ivey, Hemtock township. John Fortner, Bloomsburg, A. K. Fullmer, Pine township, Henry George, Conyngham twp, Howard Greenley, Madison twp, Jacob Nuss, Mifflin township,

TRAVERSE JURORS-First Week, Clint A. Kitchen, Bloomsburg. John Heavner, Berwick. C. M. Smith, Benton township. A. B. Comstock, Sugarloaf twp. Charles Wagner, Locust township. Weldie Dent, Hemlock township, J. W. Brown, Main township. Philip Rabuck, Beaver township. Wm. Dollman, Greenwood twp. D. L. Hess, Benton township, Emanuel Yost, Briarcreek twp. Seeley Edwards, Benton township. F. J. Hess, Sugarloaf township, Wm. Brobst, Bloomsburg. Lewis Kramer, Madison township. W. B. Hess, Jackson township. Stephen Hartzel, Bloomsburg. J. Megargell, Orange township, John Mourey, Roaring Creek twp. Burr Albertson, Greenwood twp. John Oliver, Locust township. H. F. Kelchner, Stillwater. M. O. Bowman, Mifflin township. Jerre Kostenbauder, Franklin twp. C. P. Elwell, Bloomsburg, W. B. Miller, Greenwood township. John Fruit, Main township. Jerry Vansickle, Sugarloaf twp. Brittain Hess, Jackson township. H. J. Demott, Millville. Eugene Tewksbury, Catawissa. Furman Kressler, Scott township.

Harry Black, Greenwood township. John Larned, Bloomsburg. John Oman, Mt. Pleasant twp. John Shaffer, Mt. Pleasant twp. G. W. Gordner, Pine township. J. B. Vannatta, Jackson township. Jerry Welliver, Greenwood twp. John Johnson, Greenwood township. G. W. Appleman, Orangeville. W. Shuman, Main township. W. Roberts, Jackson township. Elmer Hagenbuch, Certer twp. H. W. Watts, Bloomsburg, C. T. Brittain, Berwick. W. H. Fisher, Bloomsburg, J. N. Harry, Berwick. TRAVERSE JURORS - Second Week

Calvin Crawford, Greenwood twp. C. W. Trump, Orange township, J. M. Comstock, Sugarloaf twp. C. B. Conner, Jackson township. Bradley Sult, Briarcreek township, Wm. Raup, Berwick. Albert Frank, Conyugham twp. D. Dentler, Bloomsburg. B. G. Keller, Benton. Solomon Deaner, Main township. Alfred Culp, Berwick. W. H. Roberts, Catawissa twp. W. H. Stackhouse, Berwick Elias Utt, Bloomsburg. W. H. Cherrington, Roaring Creek,

C. Wenner, Benton township. W. A. Snyder, Scott township A. W. Snyder, Mifflin township, Warren Allabach, Orangeville. Elias Weaver, Catawissa C. T. Bender, Fishingereek twp. H. L. Waters, Catawissa. Simon Hons, Beaver township. E. P. Shultz, Sugarloaf township. F. R. Jackson, Berwick, Robert Pugh, Bloomsburg. Thos. Benjamin, Jackson township. G. B. Martin, Bloomsburg. Bruce Seybert, Mt. Pleasant. Daniel Billeg, Locust township. James Oberdorf, Catawissa. Josiah Levan, Main township. James Quick, Montour township. Cherrington Kester, Locust.

Abraham McHenry, Benton.

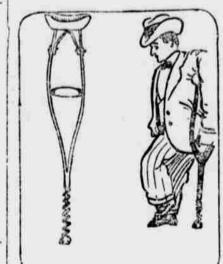
James E. Smith, Berwick.

The First Dancers. People have danced for thousands of years, and will probably continue to do so for ages to come. This custom is of ancient origin. The first people to dance were the Curetes. who adopted dancing as a mark of rejoicing in 1543 B. C. In early times the Greeks combined dancing with the drama, and in 22 B. C. pantomimic dances were introduced on the Roman stage. At the discovery of America the American Indians were holding their religious, martial, and social dances.

the like Kind You Have Always Sought Bignatura

00000000000000000000000000 Crutch With a Spring.

It can be safely stated that the common everyday crutch is no different from the one used a hundred years ago. No one thought of changing it. Every one who was unfortu-



Spring Prevents Jarring.

nate enough to need one was perfectly satisfied with its make-up-so no change was deemed necessary. The improved crutch is shown in the illustration. There is very little difference noticeable. It closely resembles the ordinary crutch with one exception—and that exception is a spring near the lower end. The spring is placed between the usual rubber guard and the end of the arms of the crutch and is coiled around a connecting rod. The purpose of the spring is apparent at once. A cripple's progress is necessarily slow and tedious, but this little improvement should make his walking less irksome.

A Marble Bible.

Great as has been the amount of labor expended on the various Bibles of the world the paim for execution must be given to the Kutha-daw, which is a Buddhist monument near Mandalay in Burmah. It consists of about 700 temples each containing a slab of white marble , on which the whole of the Buddhist Bibles, containing more than 8,000,000 syliables, has been engraved. The Burmese alphabot is used, but the language is Pali, This wonderful Bible is absolutely unique. The Kutho-daw was erected in 1857 by Mindon-min, the last King but one of Burmah. The vast collection of temples together form a square, with a dominating temple in the centre. Each of the marble slabs on which the sacred text is inscribed is surmounted by an ornamental canopy in pugoda form.-Kansas City Journal

Gold Railroad Passes.

It is nice to have a gold pass attached to your watch-chain which franks you firstclass over the railways of a continent, and sends every ticket collector's hand to his cap. Such is the happy lot of Australian Ministers and ex-Ministers, but the "deadheads" are now so many that the question of restricting the issue of passes has been engaging the Premiers' Conference at Hobart. The loss of railway revenue runs into many thousands of pounds. In Victoria alone there are eighty ex-Ministers with free passes. One has had his pass since 1857. He must be the record "deadhead" of the world .-London Cronicle.

HUMPHREYS

Veterinary Specifics cure diseases of Horses, Cattle, Sheep, Dogs, Hogs and Poultry by acting directly on the SICK PARTS without loss of time.

A. A. FEVERS, Congestions, Inflamma cures tions, Lung Fever, Milk Fever. B. B. | SPRAINS, Lameness, Injuries, cuars | Rheumatism.

C. C. | SORE THROAT, Quinsy, Episcotic, CURS | Distemper.

D. D. WORMS, Bots, Grubs.

E R. COUGHS, Colds, Influenza, Inflamed P. P. | COLIC, Bellyache, Wind-Blown,

G. G. Prevents MISCARRIAGE.

H. H. KIDNEY & BLADDER DISORDERS.

I. I. 18KIN DISEASES, Mange, Eruptions, cums Ulcers, Grease, Parcy. J. K. BAD CONDITION, Staring Coat.

60c. each ; Stable Case, Ten Specifics, Book, &c., \$7. At druggists, or sent prepaid on receipt of price. Humphreys' Medicine Co., Cor. William and John Streets, New York.

BOOK MAILED PREE.

WOMAN LIGHTHOUSE KEEPERS.

\$\$\$\$ Only Woman Keeper on the Atlantic Coast-Tended Lights 19 Years.

> There are a number of women - ho draw salaries from the United Second government as assistant lighthome keepers, where their husbands, sons, or some other relatives are in charge. But Mrs. Walker is said to be tae only woman on the Atlantic coast between Maine and Florida who is the head lightkeeper, while the man who belps her (her son) is an assistant, It is 19 years since Mrs. Walker went to Robbin's fleef light as a bride. She has not left it since except for a few hours at a time. She virtually went to "the reef' on her honeymoen, and she never fell into the habit of asaing for leave of absence.

All that she knows from personal experience of the great land to which she came as a girl immigrant from Germany is comprised within the limits of Staten island, New York city, and Brooklyn. She says she has never wanted to go west, south or anywhere else. Hours of solitude have taught her, she says, that she is in pretty good company when she is by herself, and that happiness lies in being content with simple things. As a wife, mother and widow, the happiest and raddest days of her peaceful life have been spent within the circular walta of her voluntary prison. She declares that if she were compelled to live anywhere else she would be the most miserable woman on earth.

To speak by the card, the Robbin's Reef lighthouse is a conical fron tower, 46 feet high, built on a circular stone pier. Its official location, given for the guidance of seafaring men, is "bearing 34 miles north of Fort Tompkins light." From the time the sunset gun at the fort is heard on the reef until sunrise next morning the Robbin's light shows a brilliant white flash every six seconds. It can be seen for 12 miles, except on foggy nights. It is one of the first lights the pilot on an incoming vessel sees when he enters the channel. It shows him the way up through the Kill von Kull to Newark bay, or on past the more pretentious statue of Liberty Light to the port of New York.



When the light is obscured by fog. as it frequently is in winter, Mrs Walker goes into her deep basement and starts an engine that sends out siren blasts from a foghorn at intervals of three seconds and that can be heard for miles. When this siren gets down to business Mrs. Walker and her son sit up all night. There is no use in going to bed. Might as well try to sleep in a boiler shop. But the fog-horn machinery, like all other machinery, sometimes goes on strike, Then Mrs. Walker has to climb to the top of the tower and hammer on a buge bell. When the men at the government lighthouse station on Staten island hear that bell they know that a visit is due Mrs. Walker as soon as wind and weather permit.

"This lamp in the tower-it is more difficult to care for than a family of children. It need not be wound more than once in five hours, but I wind it every three hours so as to take no chances. In 19 years that light has never disappointed sailors who have depended upon it. Every night I watch it until 12 o'clock. Then, if all is well, I go to bed, leaving my assistant in charge."

The government gives Mrs. Walker coal, but it does not give her wood. The sea supplies that. When a particularly fine log heaves in sight, Jake and his mother go on the terrace There is a swish of a rope through the air like a cowboy's lariat. An fron shaft sinks deep into the watersoaked log. Jake and his mother make it fast to the railing until opportunity offers to haul it ashore at

low tide and cut it up to dry. But the tide brings other things than driftwood. It reveals tragedies -fragments of small craft dashed to pieces in a coast storm, and the bodies of men and women counted among the "missing" until the sea gives then up.

PENNSYLVANIA

** "stant, 25, 1906

Trains leave BAS _ Decome 1 1900 as follows For Nescopeck and Wilkesre, 7:50, 10:30 a.m., 2:15 (4:28 Nescopeck only), e.s. prin. weekuays. or attwisse and Sunbury, 8:25, 11:47 a. m.,

week days.

fer Lewisburg, Milton, Williamsport, Lock
haven, Kenovo, and Ridgway II 4' a. ft. week
cays: Lock haven only, 835 a. ft., 437 p. m.;
for Williamsport and Intermediate stations.

fig. 11:47 a. ft. 4:07, 7.35 p. m. week days; 4.07

Beauth Lavel.

Agents
W. W. ATTERBURY, J. R. AGOD.
General Manager, Passer Traffic Mgr.
GEO. W. BOYLD.
General Passenger Agent
SCRASTON.

PHILADELPHIA & READING RAILWAY.

In effect Nov. 15, 1964. TRAINS LEAVE BLG PASSURG

For New York, Philadelphia, Heading, Pottswhile, Tarnaqua, Weekdaye 7.27 via West Milton:
Taylor....
Old Forge....
Duryea
Mali on.
For Williamsport, Weekdaya, 7.27 a m 3.29 For Danville and Milton, weekdays, 7:27 a m 3.20 p. m.
Por Uatawiasa weekdays 7.27, 11:28 a m.
12.20, 7.09, p. m.
For kapert weekdays 7.27, 11:28 a, m. 12.20
12.20, 7.00, p. m.
12.20, 7.00, p. m.
12.20, 7.00, p. m.

por Rapert Weekdays 7.87, 11.05 a, m. 12 20

p.29, 7.00, p. m.

TRAINS POR BLOOMSBURG.

Leave New York via Philadeiphia 9.65 a

m. and via Easton 9.10 a. m.

Leave Reading 12.15 p. m.

Leave Reading 12.15 p. m.

Leave Pottsville 19.55 p. m.

Beach Haven.

ATLANTIC CITY.	ATLANTIC CITY;	CAPE MAY
7:80 a. m. Lel. 9:00 a. m. Exp 11:00 a. m. Exp. 2:00 p. m. Exp.	4:00 p. m. Exp. (60 Minutes) 5:00 p. m. Exp. 5:00 p. m. Let. 7:15 p. m. Exp. SUNDAYS.	OCEAN CITY 8:50 a. m. 4:15 p. m. 5:00 p. m. 8EA ISLN CITY 8:50 b. m.
ATLANTIC CITY	ATLANTIC CITY.	CAPE MAY
8:00 a. m. Lel. 9:00 s. m. Exp. 10:00 a. m. Evp.	5:00 p. m. Lel.; 7:15 p. m. Exp.	CITY. 8:45 a.m.
Detailed time t	ables at ticket of 4 Chestnut St. 1	nces, 18th and

St., 609 South 3rd St., 3962 Market St., and at Stations.

follows:

A. M. \$5:00, 5:40, 6:20, 7:00, 7:40, 8:20, 9.00, 9:40, 10:20, 11:00, 11:40.

Leave Bloom for Catawissa A. M. 5:30,

6:15, 17:00, 18:00, 9:00, 110:00, 111:00, P. M. 1:00, 12:00, 3:00, 4:00, 5:00, 6:00, †7:00, 8:00, 9:00, 10:20, *(11:00) Cars returning depart from Catawissa 20

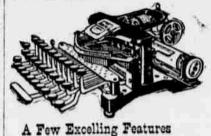
minrtes from time as given above. First car leaves Market Squareffor Berwick on Sundays at 7:00 a. m. First car for Catawissa Sundays 7:00 a. m.

First car from Berwick for Bloom Sundays leaves at 8:00 a. m First car leaves Ca awis | Saada 3)

From Power House. *Saturday night only. †P. R. R. Connection.

WM. TERWILLIGER, Superintendent.

THEPOSTAL \$ 25.00



First-class in material and workmanship.

characters. Simple construction-Fewest parts. Alignment positive and permanent. Extra great manifolding power. Unexcelled for mimeograph stencil

Uses universal key board-writes 84

cutting. Inked by ribbon, as in \$100 machine Visible writing-no carriage to lift. Style of type changed if desired in

few seconds. Light, easily carried-weighs only

101/2 pounds. The lowest priced practical type writer.

Every machine fully guaranteed. Why pay \$100 for a typewriter when the Postal, which will do just the same work as well, as easily and as quickly will cost you only \$25. Why tie up that \$75 where you derive no benefit from it?

This machine can be seen at the COLUMBIAN OFFICE. Postal Typewriter Company Norwalk' Conn

ACKAWANNA Railroad.

BLOOMSBURG DIVISION.

In Effect March 1st., 1904.

BAOT. STATIONS. A. M. A. M. P. M. P. H NORTHUMBERLAND "6 45 10 CO 15.004" f. is an in the sum of the second 05 12 05 29 PCEASTON...... *9 421 2 05 4 50 A. M. A. M. P. M. T. M.

A. S. A. M. A. M. P. M. Susquehants Ave...... West Pittsteb....... Wyoming.....

*Daily, + Daily exceet Sunday, f Steps or signal or notice to conductor, E. M. RINE, T. W. LEF, Supt. Gen. Pass. Agt.

A. M. P. M. P. M P. 4

Bloomsburg & Sullivan Railroad.

Taking Effect May 1st 1906, 12:05 a m.

NORTHWARD, A.M. P.M. P.M. A.M

SOUTHWARD. Zaners. [6 35 fl] 29 Forks. 6 39 ll] 23 Orangeville. 6 50 ll 4 Light Street. 7 00 ll 50 Paper Mill. 6 63 ll 53 Bloom, Main St. 7 l3 ll 90 Bloom, P. R. 7 18 ll 205 Bloom, D. L. & W. 7 20 ll 210

Trains No. 21 and 22, mixed, second class.
† Daily except Sunday. † Daily † Sunday.
if Flag stop. W. C. SNYDER, Supt only. f Flag stop.



Scientific American. omely illustrated weekly. Largest cir of any scientific journal. Terms, \$3 a ur months, \$1. Sold by all newsdealers MUNN & CO. 361 Broadway, New York Branch Office, die F St., Washington, D. C.





