EARTH AND THE PENDULUM.

Demonstration to Prove Rotation of This Little Planet-Experiments Made by Foucault.

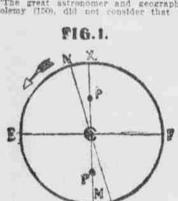


track on the sand. Foucault's experiments

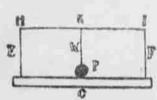
track on the sand. Forcault's experiments were stopped by the coup d'etat of Louis Napoleon December 2, 1851.

Becently, however, Camile Flammarion has renewed interest in the subject and the other day be swung a plane wire pendulum 220 feet long carrying a fifty-six pound from ball, with a stylus attached for marking the earth's movement on the sand. The exhibition, again in the Pantheon, was of such importance that eminent men delivered addresses to the large assembly of scientists and public officials present, and a report of the proceedings was sent by cable over the world.

In view of the pendar interest awakened by the subject Prof. John K. Rees of Columbia university explains the experiment in detail. His account of the various astronomical conjectures and demonstrations leading up to Foucault's exhibitions in the Pantheon, together with what has since been achieved in that direction, makes an interesting story.



VIEW FROM ABOVE FIG 2.



DIAGRAMS.

rotation of the earth on an axis was possible, said Prof. Rees. "He thought the velocity would be so great that the air would be left behind, and even if the air was carried around bodies floating in the air, it would be left behind. Coperalcus (1560), having better knowledge of the distance of the stars, argued that if the stars revolved about the earth in a day their velocities would be almost infinite. The 1 pothesis of the indir revolution of the earth he considered much more probable than the daily revolution of the celestial sphere.

tain the daily revolution of the celestial sphere.

The discovery of the telescope enabled Gailleo and others to whew that sun, moon. Jupiter, etc., revolved on axis and Jupiter and Saturn had satellites which went around thom. Analogy, therefore, confirmed the idea of a rotating earth.

"During the last century experimental proofs have been devised to prove this retation. Forcault's pendelum experiment in the Pantheon in Paris is the most striking proof. His experiment depended on the fact that if a heavy hall is susmended by a wire and them allowed to cacillate. Ike a pendelum, the plane of vibration will not change.

"Suppose that over a round table. Ike

will not change.

"Suppose that over a round table, like that illustrated in the diagram, capable of revolution, without iar, there is suspended vertically above the center (C) a heavy ball (P) by a wire. Gentir null the ball to one side (as Pl) and let it go it will oscillate in a vertical plane of which X C M is the trace on the table. Now revolve the table as the arrow indicates. If in a few



CAMILE FLAMMARION.

around the central point. The time of one swing was 8.2 seconds. The apparent deviation of the plane in one oscillation of the bendulem was about it minutes of arc. The air resists the motion of the pendulum ball and would seen bring it to real. In order to overcome this resistance Fourtaint devised an ingenious electric apparatus, which accelerated by magnetic attraction the motion of the iron ball at the center of every swing. This apparatus made it possible to cause the pendulum to swing for as long a time as was desired. The circle of the Pantheon was about sixty feet in circumfreence.

The experimental proof was received with great applause, and since that time

the carties potation, using a gyroscope. During the animner of 1989 there was exhibited an experiment at the Paris astronomical observatory which, with the aid of a innern, showed the earth's rotation on the screen. It seems strange that even today there are many persons who believe in a flat earth and an earth that does not rotate on an axis.

"The Foucault experiment could be successfully exhibited in many places in this country. The pendulum might be awong under the dome of the capited at Washington or in the library at Columbia university or under the dome of General Grant's tomb."

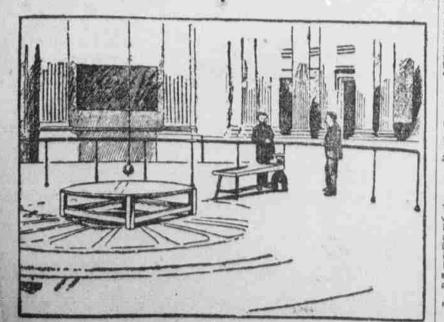
HOUSTON'S NEW BUILDING

TEXT OF THE LETTER WHICH WAS SENT TO THE CONGRESS.

Reasons Why It Is Cheaper to Purchase Suitable Lot and Erect Thereon a

Building Commensurate with Needs. (Special Correspondence of The Post.)

office case, as submitted to congress;



FLAMMARION'S EXPERIMENT WITH THE PENDULUM.

the honor to report relative to the Federal

building at Houston, Texas. The building is located on the south corner of Fannin and Franklin streets, on a lot fronting sorthwest 125 feet on the former and northeast 100 feet on the latter The ground was purchased in 1887, the government paying \$7600. The actual pur chase price, however, was \$14,000, certain citizens contributing the difference.

are alx National banks and one private bank, with deposits aggregating 310 conocio. The business done through the Houston clearing house last year amounted to over \$400,000.000. The shipment of cotton from this c_r exceeds \$50,000,000 per year, and other industries, as lumber, sugar, cattle and rice are not far beind the cotton industries, as lumber, sugar, cattle and rice are not far beind the cotton industry in value. There are over 100 means facturing concerns, some of them quite extensive. The supply of oil in unfinited quantities from wells in the vicinity of thouston has solved the fuel question for this part of the country, and a large increase in the manufacturing business can be expected. The assessed valuation of property exceeds \$31,000,000. Eleven railroads center in Houston and more are in the course of construction. Several of them have headquarters in the city.

Taking all the circumstances into consideration, Houston can not fall to increase rapidly, sun by the next census will show a population exceeding probably 100,000. In view of these conditions, we are of the epition that a liberal policy will prove ultimate scenomy in any building operations in that city that are projected at the present time.

Two methods have been under consideration of providing suitable accommodations, One is in the purchase of additional land.

Two methods have been under consideration of providing suitable accommodations. One is in the purchase of additional land fronting 150 feet on Franklin street by 125 feet deep and the erection of an extension thereon. The other is to dispose of the present property and erect a new building in another and more suitable location. Under the former method the land would cost about \$50,000 and an extension of sufficient size to prayide accommodations for the past twenty years would cost about \$140,000. While this method is less expensive, it is open to the objection that the infector arrangement of the building is so little adanted for enlargement and for the accommodation for enlargement and for the accommodation of a court practically the whole interior would have to be reconstructed. The leacation also is not all that it should be, and is likely to become quite discribuable in the near future.

The latter method, i. e. the erection of a new building, would seem to be the best poolity, and utilizately the most consumiral and satisfactory.

The sity locates are of uniform size 200.

Types of the New West, John M. Osktson in Leslie's Weekly

Geographically, the new West coincides Washington, December 11 .- Following is with the cld. It is met at the Mississippl. the text of the report on the Housian post- supposing the observant, initiated traveler Federal Building at Houston, Texas -A enough, catch glimpses of it through Southletter from the secretary of the treasury, ora indiana and across Hitnels, where there the postmaster general and the attorney is likely to be a loosening of talk in the general, submitting a report as to the Federal building at Houston, Texas. December 9, 1902.—Referred to the committee on public buildings and grounds and ordered to be printed.

Treasury Department, Office of the Secretary, Washington, December 8.

Size In compliance with a provision of

custy through the habitual barrier of polite anubbing.

For the man of this new empire is busy; he is open to new influences, what the casual stranger has to say as he drops into the sest bealds him may affect him and his business. He is courteous, but there is no some in spending half an hour tilding about the discomforts of travel and towarfettes of landscape when there is information to be gained of the process of manufacturing shoes, or the study of Latin in the Eastern colleges, or the fertilization of thin soil.

Chicago Tribune. Tourist-How did such a commencial sort of man ever get the title of "colone". Native-He fit fur it, mister. Lichard in feller that used to be Channel Jones in Far, squar', standup fight.

It's Your Duty

To be strong and healthy, especially when such reliable remedy for stomach liver and kidney ills as Hostetter's Stom-ach Bitters can be obtained from any ach Bitters can be obtained from any Druggist. It will strengthen the nerves, improve the appetite and absolutely cure Headache, Nausea, Indigestion, Dyspeptia, Constipation, Chills or Malaris. Try

Also obtain a copy of our 1903 Almanao from your Druggist. It is free. HOSTETTER'S STOMACH BITTERS

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Five cases of pretty China received last week, including a beautiful pink border Dinnerware. Our lines combine the useful and ornamental in great profusion. If it is not there it is not anywhere and the prices are surprisingly low. To enumerate the lines displayed

here is almost impossible.

COME AND SEE US



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Fine Porcelain Dinner Sets, 100 pieces, worth no less \$10.00 than \$12.50, only ... Fine Limoges Dinner Sets, cannot be imported for less than \$20.00 \$25.00. only Fine Haviland Dinner Sets, were never offered for less \$27.50 than \$35.00, only ... An exceptionally elegant line of Toilet Sets just arrived, prices \$2.00

All fancy goods have been marked down so as to give

our patrons an opportunity to purchase their Christmas presents at the lowest possible prices. This reduction has been made on

Gut Glass

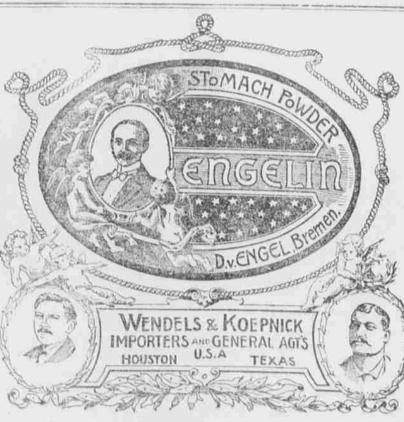
Plaques Jardinieres

Bric-a-Brac Fine China Vases

Umbrella Stands Lamps

In short on all goods which would most likely be considered now by our patrons. Our show windows are the reflection of our stock. When passing, stop and note the goods and prices-both are pleasing.

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"Houston, Texas, November 30, 1902.

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Outing, in all colors and styles, worth 10c and 12c yard; Removal Sale price, yard Dress Gingham, regular price 10c; Removal Sale price. Cheviot, for shirts, regular price 10c; Removal Sale price. yard F. F. Cassimere, all colors, regular price 35c; Removal Sale price, yard20c F. F. Worsted, all colors, regular price 25c; Removal Sale Manchester Worsted, all colors, regular price 15c; Removal Sale price, yard12c French Flannel, for shirt waists, regular price 50c and 75c; Removal Sale price Red and White Flannel, regular price 25c; Removal Sale price, yard20c Red and White Flannel, regular price 35c and 40c; Removal Sale price, yard25c Heavy Gray and Navy Flannel, for skirts, regular price 75c; Ladies' Tailor-Made Suits, in broadcloth and serge, regular price 10.00 and 15.00; Removal Sale price, each, 6.00 and 8.00 Chenille Covers, regular price 1.50; Removal Sale price,

CLOTHING

Men's Suits, good satinet, regular price 6.00; Removal Men's Suits, black and blue serge, regular price 12.00; Re-Men's Suits, Manchester fiannels, regular price 15.00; Re-Men's Suits, clay worsted, regular price 7.00; Removal Men's Suits, clay diagonal, regular price 15.00; Removal Men's Ulsters, heavy goods, regular price 7.50; Removal Men's Overcoats, tan and black beaver, regular price 8.00; Men's Overcoats, fine melton, regular price 12.00 and 15.00: Boys' Overcoats, sizes 6 to 11, regular price 2.50; Re-Boys' Overcoats, sizes 6 to 11, regular price 4.00; Re-Beys' Overcoats, sizes 11 to 16, regular price 6.00; Re-Boys' Knee Pants, sizes 6 to 9, regular price 50c a pair; Re-

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ALL GRADES TO SUIT YOUR PURSE .- A Leather Suit Case is a well come gift to man or woman, boy or girl.

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