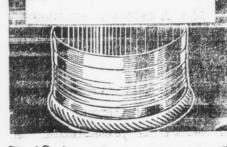


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twenty-four zeros) foot pounds! Figured in another way, the energy in the flying earth is equivalent to nearly three sextillions of horsepower, the horsepower being the measure of the work done by 33,000 foot pounds of energy developed in one minute.

That is to say, if the earth could be brought to rest in one minute and all its energy turned into driving machinery it would develop nearly three sextillions of horsepower. But if it were brought to rest in one second it would develop sixty times more horsepower! Then we may consider the thermal

effects of the earth's kinetic energy if by instantaneous arrest of the motion it were turned into heat. There would be a sudden development of so tremendous a temperature that the earth evening air, would catch sight of a lit- rating the cannon from the earth, tle new nebula, twinkling like a thistle down blown into the sky of space.

Thereafter the dissipated earth would world under the name of "Jones' Nebda," and nobody, casually glancing at measured by multiplying the mass of It from an observatory and unsympathetically noting its extreme exiguity. would ever think of the heartbreaking history that had been nebulized in that speck of cosmic vapor.—Garrett P. Serviss in New York Journal.

Be Yourself. I hardly know so true a work of a Bittle mind as the servile imitation of another.-Greville.

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velocity of half a mile per second fi would not only miss its mark, but the might be vaporized. Puff! And some whole breadth of the earth would have astronomer on some distant planet, passed by before the ball had traversed aiming his telescope through the cool one-tenth of the original distance sepa-

The motion of the earth becomes pos sibly even more impressive when we consider the awful energy that it proappear in a catalogue on that faroff duces. Kinetic energy, or the capacity to do work, such as striking a blow, is the moving body by the square of its velocity and dividing the product by 2.

In order to get the result in foot pounds we reckon the mass in pounds and divide again by 32 or by 64 in all. The reason for dividing by 32 (more exactly 32.18) is that that number is the unit (in feet per second) of the earth's gravitation, or the acceleration. of gravity.

Calculated in this way, the kinetic energy of the earth comes out at more than ninety septillion (90 followed by

La Stagione di Liete Notizie

Queste Beile Strenne di Natale Cratis con le Sigarette "Zira"

This means that if you could stand beside it and see the earth rush by its whole enormous globe, 8,000 miles in diameter, would pass your eye in about six minutes. It means that in one day and night (twenty-four hours) the earth travels 1,900,800 miles!

Compare 1 with the velocity of jectiles, the speed of the earth's flight is so great that the swiftest of them would seem to stand still. A rifle bullet may go, say, one-third of a mile persecond in the first moments of its flight -that is, sixty times slower than the earth, which never stops or slows up.

The initial velocity of some projectiles may be half a mile per second, or forty-four times slower than the earth. If a cannon could be planted out in space and fired at the earth from a distance equal to one-quarter of the earth's diameter (which would be like a hunter firing his rifle about eighteen inches from a deer's side and if the shot were aimed at the front edge of the flying earth (imagining the latter flat l'ke a disk) and fired with an undiminishing

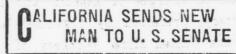




Photo by American Press Association. JAMES D. PHELAN.

Mr. Phelan was one of the new men who took the obligation as United States senators last week. He represents California. Mr. Phelan is a Democrat and has served many terms as mayor of San Francisco. He favors national defense.

OUR FLYING WORLD

ts Awful Velocity In Its Spiral Whirl Through Space.

THE RESULT IF IT STOPPED.

Were Its Motion Suddenly Arrested the Earth Would Be Vaporized by the Heat Generated and a New Nebula Would Blaze In the Heavens.

The direction and speed of the earth's flight are the resultants of two motions with which it is endowed-the one around the sun, the other with the sun straight away through space. The combination of these simultaneous motions causes the earth to travel in a spiral path whose axis is directed nearly toward the bright star Vega, the most beautiful in the northern sky.

In its orbit, or annual path around the sun, the earth's mean speed is eighteen and one-half miles per second. while its speed of transition toward Vega, which it shares with the sun, is about twelve miles per second. We may call the resultant or combined speed of the earth in its actual spiral trajectory twenty-two miles per second.



- D. What is the Constitution of are there? ...
- his country.

D. Have you read the Consti-

D. What form of Government

ation of the United States?

R. Yes.

R. Republic.

he United States?

this?

D. Who makes the laws of the 'nited States?

Christmas season.

customers with the best satisfaction.

- R. The Congress.
- D. What does Congress consist
- R. Senate and House of Rep-
- esentatives. D. Who is the chief executive
- f the United States?
- R. President. D. How long is the President
- of the United States elected?
- R. 4 years.
- D. Who takes the place of the resident in case he dies?
- R. The Vice President.
- D. What is his name?
- R. Thomas R. Marshall.
- D. By whom is the President of
- he United States elected?
- R. By the electors.
- D. By whom are the electors
- leted ?
- R. By the people.
- D. Who makes the laws for the tate of Pennsylvania.
- R. The Legislature.
- D. What does the Legislature
- onsist of?
- R. Senate and Assembly.
- D. How many State in the un-

- D. When was the Declarationof Independence signed!
- R. July 4, 1776.
- D. By whom was it written?
- R. Thomas Jefferson.
- D. Which is the capital of the
- nited States?
- R. Washington.
- D. Which is the capital of the
- state of Pennsylvania.
- R. Harrisburg.
- D. How many Senators has ach state in the United States

- R. Two.
- D. By whom are they elected?
- R. By the people.

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if properly selected, indicates good

taste and individuality.

ment of the famous W-W-W guaranteed stone set rings. This stock is so carefully selected as to please the most critical.

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from the store where quality is the first consideration.

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- D. For how long?
- R. 6 years.
- D. How many representatives
- R. 435. According to the pop-R. It is the fundamental law of ulation one to every 211,000, (the ratio fixed by Congress after each
 - decennial census.) D. For how long are they elect-
 - R. 2 years.
 - D. How many electoral votes has the state of Pennsylvania?

 - Roo 38. greens grove to I leave t D. Who is the chief executive
 - of the state of Pennsylvania? R. The Governor.
 - D. For how long is he elected?
 - R. 4 years.
 - D. Who is the Governor?
 - R. Brumbaugh.
 - government?
 - R. Yes. D. Are you opposed to organiz-

D. Do you believe in organized

- government:
- R. No.
- D. Are you an anarchist?
- D. What is an anarchist? R. A person who does not be-
- ieve in organized government. D. Are you a bigamist or poli-
- gamist? R. No.
- D. What is a bigamist or poly
- R. One who believes in having more than one wife. D. Do you belong to any secret
- Society who teaches to disbelieve in organized government?
- R. No.
- D. Have you ever violated any ws of the United States?
- R. No. D. Who makes the ordinances or the City ?
- R. The board of Aldermen. D. Do you intend to remain

PLEASE Our Case

bermanently in the U.S.? R. Yes. WWOT WITEHOUT

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