Democratic Watchman.

Bellefonte, Pa., October 6, 1911.

LIFE OF THE SUN. Old Sel's Heat Will Warm the Earth

For Millions of Years.

The reason why the sun retains its heat in spite of the quantity that it gives out is explained by the fact that heat is generated by the fall of particles toward its center. The diameter of the sun diminishes annually by 150 meters, a little more than the ten-miltionth part of its total.

According to estimates made, 30,00! years will pass before the solar radius diminishes enough to produce an effect appreciable by the most delicate instruments, always supposing that the astronomical instruments of the future will be similar to the instruments of the present. By like calcula tions it is estimated that the sun will send heat to the earth between six millions and eight millions of years longer.

Radium, which emits heat spontane ously and without cessation, is present in the sun. One gram of radium frees enough heat in one hour to raise a grain of water from the temperature of ice to the temperature of boiling water. Hence the presence of this element assists in the preservation of the sun's heat. The spectroscope reveals great quantities of helium in the sun, quantities great in proportion to the sun's other elements. The presence of helium is due to the disaggregation of radium. Two grams of radium per ton of the sun's elements would be enough for the entire regeneration of all the heat lost by the sun.-Harper's Weekly.

SUNFLOWERS.

Their Pith Makes Fine Interlining For Battleship Armor.

The most remarkable use to which the sunflower has been put is in the construction of battleships. The stalk of the plant is very pithy, and even when compressed into blocks this pith is capable of absorbing a tremendous quantity of water. These blocks, in which the pith retains some of its flexibility, have been employed with much success in the solution of the vexed problem of the lining of a battleship's sides. They are placed between two walls of steel, and the substance is sa resilient that it completely closes up the hole made by a projectile, keeping out the water for a long time.

Another little known use of the sun flower is in the manufacture of cigars. There is not a part of the plant that is without commercial value. The seed. which is raised by hundreds of millions of pounds every year in Russia, makes a palatable edible oil, with a residue of seed cake for cattle, or it may be road. Then he would get a gun and fed in the kernel to poultry. The blos | shoot the old fellow. soms furnish honey first and then an the Chinese are clever enough to get a are also good for fuel and for the proit is believed that the sunflower "keeps away malaria." It is also believed that the blossoms follow the sun in its daily course, but that is not true.

Thackeray's Mistakes

BRUIN'S BANQUET. Thackeray probably wrote the prettiest and most legible hand of any distinguished author. But the master of the easiest and most flexible style in It Was Long Drawn Out and Only English fiction occasionally made careless and #ritating slips. He wrote "different to." which is a common and quite unaccountable mistake, and "compared to," which is as bad. No THE FINISH WAS EXCITING. one would think of saying or writing "compare this to that," yet you find 'compared to" in print every day in After the Pork Course Gave Out a the week. And he also fell into the

common error of making the surname plural instead of the prefix-the "Miss Potters," for instance, in "The Newcomes," instead of the "Misses Potter." Would anybody write the "Mr. Potters?" Why should the ladies be so mishandled ?- London Chronicle.

The Fruit Cuckee.

from the woods with his team he The Indian fruit cuckoo, which, like stopped to give the mules a breathing all members of the cuckoo family, lays spell and to eat his dinner, which he its eggs in the nests of other birds and carried in a tin bucket. He had thus avoids the trouble of hatching scarcely opened his bucket and begun them, is said to exhibit a great deal of to eat when a bear came out of the strategy in dealing with crows, its natwoods on one side of the road, only ural enemies. Whereas the hen au two or three rods in the rear of the inconspicuous, speckled gray bird, conceals herself in the foliage, the cock. remarkable for his brilliant black plumage and crimson eyes, places him-

self on a perch near a crow's nest and sets up a great racket. The crows immediately rush out to attack him, and he takes to flight with them in pursuit. The hen meanwhile slips into the nest and deposits an egg. Sometimes the crows return before the egg is laid. and then the intruder gets a trouncing.

A Link With Primitive Times. All ceremonial maces at court, in parliament, of learned societies and municipal bodies, field marshals' batons, gold and silver sticks, etc., are descended from the heavy fighting sticks and clubs of primitive savages. The chiefs always had the best carved clubs, which were the symbols of prowess and authority. The Australian boomerang and the Irish shillalah are both maces .-- London Standard.

Also the Whale. A Kansas fisherman declares that a catfish will pur like a tomcat when it is stroked the right way. Did he ever try stroking a German carp and hearing it sing "III le. hi lo?"-Kansas City Star. And did he ever stroke a whale

Every man has a fair turn to be as great as he pleases .-- Collier.

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and hear it spout?-Cleveland Plain

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When the Immortals Nodded. The French papers have made much of a slip by M. Emilie Faguet in his oration before the academy. Th: academician rendered to Caesar more than was Caesar's, for he gave the "fighter and writer" credit for a line which belongs to Cato. But it seemthe immortals are not immune from lapsus linguae. General Langlois ; ot mixed up with Palestro and Solferino Even Scribe and Moliere refer to the revocation of the edict of Nantes. which took place in 1685, twelve yearafter Moliere's death. But perhaps more glaring instance is that of Men tesquin, who, in his "Esprit des Lois." volumn 1, chapter xxi, 22, writes, "1 have many times deplored the blindnes of the council of Francis I., who rebuffed Christopher Columbus when he propounded his scheme for India." But Francis I. ascended the throne in 1515, nine years after the date of the death of Columbus.-London Globe.

What Gold Beaters Can Do. Gold beaters by hammering can reduce gold leaves so thin that 282,000 must be laid upon each other to produce the thickness of an inch, yet each leaf is so perfect and free from holes that one of them laid upon any surface, as in gilding, gives the appear-ance of solid gold. They are so thin that if formed into a book 1,500 would only occupy the space of a single leaf of common paper, and an octavo volume of an inch thick would have as many pages as the books of a well stocked library of 1,500 volumes with 200 pages in each.

The Wrong Market. Mrs. Newlywed-Have you any nice slumps this morning? Butcher-Slumps? What are they? Mrs. Newlywed-Indeed, I don't know, but my husband is always talking about a slump in the market, and I thought ! should like to try some .- Philadelphia Record.

Plenty.

Wife-But we-we shall not begin our married life with a secret, shall we, dearest?

"No, darling," he murmured: "there' plenty of time."

Worse Luck

Fatigued Philip-Did the lady t'row boilin' water on y. ise? Wanderin: Walter-Worse'n dat, Phil, worse'n dat. It was soapsuds .- Toledo Blade

The teamster sat on the bark, facing excellent yellow dye. As for the stalks, backward, his big dinner bucket at hand. When the bear came up with sort of silky fiber from them, and they the wagon and threatened to climb upon the load the teamster tossed out duction of potash. In New England a piece of pork. The supply of this edible was limited, so he tossed the beast a slice of bread. which fell butter side up. Bruin nosed it, then licked the butter off and left it.

Whetted His Appetite.

Dessert of Cold Lead Ended the

Feast, and the Unwilling Host Vowed

A teamster in the employ of one of

the big tanneries in the west had a

laughable yet trying adventure with a

bear while on his way from the woods

with a load of bark. As he emerged

wagon. Bruin sauntered along, paying

no attention to the team, but the team

ster, desirous of seeing what the bear

would do, threw a bit of salt pork in

his way. The bear stopped, smelled at

the pork and gulped it down greedily.

of the morsel, came 'oward the wagon

and rose on his baunches as if to say

that another bit of pork would prove

a second piece, which bruin devoured.

and then he posed again. But the

teamster wanted the rest of his dinner

himself and paid no attention to the

shaggy intruder. The beggar, seeing

that the teamster was no longer aware

of his presence, snorted sharply two or

three times and walked back and forth

across the road as if reconnoitering

the situation. Presently he growled.

but the teamster, thinking that the

beast would go away if he got nothing

The bear ventured near and finally

climbed up the load of bark at the

hind end of the wagon. The man was

unpleasantly surprised at this move-

ment of bruin's, as he was wholly

into the road, at the same time yell-

ing to the bear to direct its attention

to the meat. The bear dropped down

and went and picked it up, but as

soon as it was swallowed and there

was no more forthcoming he made an-

The teamster started the mules on-

ward, but knew that he could not hope

to escape with his heavy load of bark.

An idea struck him. He would coax

the bear on by feeding the lunch to

him until they should come to a

friend's house a mile or two along the

other charge upon the wagon.

Accordingly he threw a bit of pork

further, continued his meal.

The teamster laughed and tossed out

acceptable.

unarmed.

Then the animal, noting the source

Never Again to Fool With a Bear.

The next slice fell butter side down, and the bear ignored it. Boiled eggs and cheese fared the same. Bruin wanted pork. The teamster dealt this out in small bits, which failed to satisfy, and the bear was growing ugly and aggressive. At length the teamster saw his friend

at work in a field and called to him to run for his gun. The man seemed to realize the state of the case and set off on a dead run for his house, a quarter of a mile distant. But the supply of pork was out before he returned, and the poor teamster was in a sorry plight.

The bear climbed upon the load. The teamster tossed him the last piece of pork and then jumped from his wagon and tore down the road. Bruin, probably thinking that the teamster was fleeing with a stock of coveted pork. started after him. The terrified man had a fair start, but he stumbled over a stone and fell full length, and the bear was close upon him when there

came the loud report of a gun, The friend had come at last. The teamster rose and looked round. There lay his late pursuer in the road, dead. The teamster declared that never again would he fool with a bear.-Harper's Weekly.

They Bumped. A true happening which has been made the subject of a cartoon occurred at a fashionable golf club near London. A young man interested in golf solely for the sake of the social atmosphere one day decided to play a round. So he sauntered leisurely down to the caddy house. where he met a certain peppery lord. Not knowing the gentleman and barely looking at him, the somewhat foppish youth asked, "Are you the caddy master here?" Without an instant's hesitation Lord ---- replied. "No, I am not, but I happen to know that he is not in need of any caddles this afternoon." It was some time before either recovered.-Boston Transcript.

Tongue Could Tell. "Last night, George, you told me you

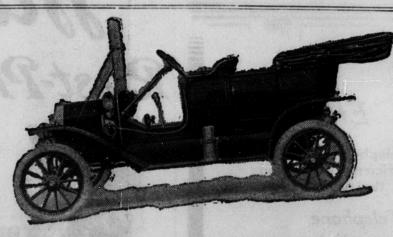
loved me more than tongue could tell, and, oh. George, that wasn't true!" "Why, darling, what do you mean?" "I mean that it wasn't more than my little brother's tongue could tell. He heard it all!"

Ill patterns are sure to be followed more than good rules.-Locke.

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