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WATFORD, JANUARY 2, 1914. NOTE AND COMMENT.

This is the season when farmers clubs, rural literary societies and debating clubs should renew their ef-

forts. Open discussion on all problems is elevating and tends to promote reading and thinking. Every reader should be a thinker.

It is not only boys' corn clubs that are showing farmers the way to larger crops and larger profits. Last year a group of school boys in Cumberland county, Tennessee, formed a potato club. The best yield was 384 bushels to the acre ; the next best, 379 bushels; the average of the club 258 bushels. For the state, the average is only about 80 bushels. All nessee now perceives new possibilities in potato culture.

A correspondent of the London Chronicle has dug up a statement held point down and sent spinning into giving the heights of some of the Highland prisoners taken after Culloden. The tallest of the heights given was five feet, six and a half inches. In 1883 the average height of Scotch soldiers in the British army was nearly 5 feet, 9 inches.

Isn't it remarkahle when good books and papers are so cheap that men and women read so little and neglect the minds God has given them to improve? It we would make our homes and our home life pure, heavy and elevating we must seek knowledge on the various

They Invariably Tend to Point to the Pole Star.

WHIRLING BODIES

SCIENCE AND SPINNING A TOP. That the Earth Revolves on Its Axis

May Be Proved by a Simple Experiment With the Gyrostat-Phenomena of Rapidly Revolving Objects.

Spinning a top is not always child's play, although it has generally been regarded as a juvenile sport. Once in England top whipping was practically ordered by law. There was a huge top formerly provided in every village to be whipped in frosty weather that the peasants might be kept warm by the exercise and out of mischief while they could not work. Shakesneare in

"Tweifth Night" says, "His brains turn like a parish top." Ben Jonson in "New Inn" writes, "He spins like a parish top," and Beaumont and Fletcher have "dances like a town top and medicand holder." and reels and hobbles." Evelyn, the diarist, speaking of the uses of willow

wood, says that it was ordered that "the great town tops should be made thereof.' Of late years, however, science has taken a hand in spinning tops with fruitful results. From spinning tops

ve can learn many interesting and valuable things. For example, we can prove that the earth revolves on its axis and calculate at what speed.

The phenomena of spinning bodies are extremely interesting. If you throw your hat into the air, but without spinning it, it will fall perhaps on one side, perhaps on the other, but if you give it a spinning motion before sending it into the air it will always come down the same side down as it went up. The same thing is true of coins and in fact of all objects spun in this manner. A knife, if merely thrown into the air.

may come down at any angle, but if the air it will on falling stick its point into the floor invariably. Other bodies acquire rigidity when

spun rapidly. Thus a piece of chain if placed on a wheel and made to revolve rapidly will form a perfect circle and if thrown off the wheel suddenly will roll across the table or the floor

just like a solid boop until its speed is diminished, when it will fall into a huddled mass. It is a strange fact that spinning

bodies always tend to point to the north star-the pole star. Gently, but firmly, they seem to tug at their moorings in an effort to assume the angle that will point them in that direction.

earth it implies that the whole earth

has revolved round the top, which

quently we have proved by this means

Many interesting astronomical dis-

ed by their study have been applied to

axis has been calculated by this means.

In many ways, therefore, the spinning

top is a valuable scientific instrument.

-Hereward Carrington in New York

Effect of a Dream.

World.

Conse

alone remained stationary.

KURIOS FROM KORRESPONDENTS Q. Last winter my ducks seemed to have rheumatism. Are they subject to this? My ducks sleep on a dry earth floor. A. Ducks quickly go off their legs on damp, hard or cold floors. Their plas ter droppings make it almost impossible to keep an earth floor dry unless it is continually scraped and so

methin is continually scraped and something spread over it to dry the moisture. Their feet get cold quickly, and they can't stand that. If you bed your quacks dry and deep their lameness will scree stands a guard who scans the house Q. Why is the Cayuga duck, the only true American duck, not more popular in this country? It certainly is fine eating. A. Its feathers are black.

American cooks hate black pin feathers, and a black duck is horrid to pick. Q. I have noticed that fowls at shows often get the feather eating habit and thus pass it around when they return home. Is this caused by lack of an element in ration or what? A. Fowls at shows are idle. They have nothing to do but endure the public gaze. So they just form themselves into mutual admiration societies and proceed to remove each others garments. Q. Would you recommend sawdust

for scratch material and for the dropping boards? A. For neither. On the floor it will get mixed with the feed, and that means indigestion and death. Q. I have pure bred Brown Leghorn chicks here whose parents show no sign of white and didn't when young, and yet these young ones show some white in tail, wing and breast. What could cause it? A. Likely overcrowd-ing at night. They may molt them out before adult age.

FEATHERS AND EGGSHELLS. It is said the egg trust, in attempts to block the Householders' league in its crusade against high prices, shipped large quantities of eggs over into Canada and paid a duty on them of 1½ cents per dozen. There were too nany eggs, however, for these exports to affect the supply, and the women

come out ahead. anyhow. The farmers' wives of this country produce most of our billion dollar poultry product, and the government tells us the farm hen averages but sixty eggs per year. The thoroughbred hens at the Storrs (Conn.) and Missouri egg contests averaged 153 and 134 per hen respectively. We do not agree that the farm hen lays but sixty eggs per year, but it's a sure thing if more farmers bought their that wives pure bred birds the farm poultry products and poultry profits would boom immensely.

This year at the Allentown (Pa.) fair prizes will be offered for the laying and meat type of chicken. The winners in the meat type will be killed and dressed after the ribbons are up, so the farmers and fanciers may see what the judge considers a No. 1 type of

FIGHTING A FIRE IN IRKUTSK. Comedy of Flaming Torches and Empty Water Wagons. They fight fires in a peculiar way in Siberia. First you find the fire. The city is plotted into districts, each with its engine house and watchtower. On the watchtower by day and night

tops for a sign of smoke. When the fire has got enough headway for him to see the smoke he gives the alarm and the engines dash out. The specta tor is amused, not so much at the dash as at the engines. They are primitive, and the use of them is more so. We went to a fire one Sunday after

noon in Irkutsk, continues Mr. Rich ardson L. Wright in his book "Through Siberia." It was close to our hotel, so that we had an excellent view. First came a troika team that dragged a hook and ladder carriage. On the car riage clung the firemen, howling Cossacks with brass helmets jammed down over their ears, who carried in one hand-how the symbolism would have stirred the heart of Maeterlinck! -flaming torches. Behind the hook and ladder was the hosecart, and then came a hand engine of the type our grandfathers used to drag to fires. After that, for two blocks, trailed a queue of water filled hogsheads on wheels. The cavalcade passed us in a cloud of dust, accompanied by the yells of the torch bearing firemen. When the supply of water ran out the carts

dashed down to the river and were re plenished. This crude high pressure service gave ise once to a rather humorous inci dent that the Irkutskians tell with great glee. During a fire several years ago a string of water wagons went

down to the river, were filled and came rumbling back. When they reached the fire the water was gone. The enthusiastic captain of hogsheads had neglected to put back the plugs in the barrels and had spilled his supply for several blocks along the main street.

TWO GREAT STARS. Sirius Is the Brightest of All, and Ca-

nopus Comes Next. results of that instrument of precision, the meridian photometer, are that Sirius is seven-tenths of a magnitude brighter than Canopus, which easily teaches that Sirius is brighter than any other star. Canopus, next in brilliancy, is visible

from all that portion of the world south of north latitude 37 degrees, since its declination is south 53 degrees and 53 is the complement of 37.

It therefore never rises above the south horizon of any point 37 degrees north. The latitude of this observatory is 34 degrees 17 minutes; hence Canopus rises very nearly 3 degrees watery wastes in the Pacific

standing over a calm ocean surface.

Uncle Sam's Antecedents.

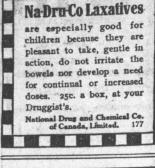
Albert Matthews once wrote a

forty-five page monograph to prove this, and he showed that the expression

went back to the year 1813. James Fenimore Cooper in "The Prairie" in

1827 spoke of "the well known initials

umored and quaint appellation of Un-



LOVELL'S BAKERY

From the beginning till the end of 1914 our aim will be CLEANLINESS and to use only the best material. Give our goods a trial and be convinced.

WEDDING CAKES A SPECIATLY.

LOVELL'S BAKERY

Home Hints

A man will spend \$25 to buy cut flowers for his dead wife's coffin, when if he had spent twenty-five cents for a bunch of flowers for her when she was alive, she would have fainted. You wait until she is dead and then get some preacher to tell how good she was

So far as possible let all women dress beautifully ; so God dresses the mountains and meadows. Let them wear pearl and diamonds, if they can afford it. God hung around the neck of His world strings of diamonds and braided the black locks of the storm with the bright ribbons of the rainbow.

Don't repress the buoyant spirit of your children; half an hour of merriment around the lamp and firelight of a home blots out many a



Once they have attained it they do not topics that are daily discussed. Too vary.

many boys and 'girls grow up now If, now, you want to prove the rotathat by the time they have entered tion of the earth by means of a spintheir teens have cultivated such a ning top you can do so as follows: taste for trashy, impure literature Provide yourself with a gyrostat capawhich is scattered broadcast over ble of being driven by electricity so our land, that anything solid or that it can run for twenty-four hours that would improve their minds or or more without stopping. Set this going and point it to the north or pole character is considered dull and uninteresting. star. It will soon assume that direction. Now, as the axis of the top is

pointed in a certain direction (say the Do not trust strangers, and do not north wall of the room) and stays expect strangers to trust you. We there, without ever moving, this will have all seen people who were very be a guide to you to check off your obangry because strangers seemed to servations. And as you watch you will regard them with suspicion, and we notice that in six hours' time the top have ever been irritated in that way will point to the west and six hours later to the south, six hours later to ourselves, no doubt. But we have no business to expect confidence the east, and at the conclusion of the twenty-four hours it will have completfrom those who do not know us. We ed the circle and will again be pointmay feel that our very appearance ought to show that we are good, but ing due north. It will have completed the circuit of the four walls of the far more respectable-looking folk than many of us have turned out to What does this mean? It means that be scoundrels. Satan is sometimes the room has revolved round the top, but as the room is fixed to the solid



How,s This? We offer One Hundred Dollars Re-ward for any case of Catarrh that cannot be cured by Hall,s Catarrh Cure. F. J. Cheney & Co., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and be-lieve him perfectly honorable in all bus-liness transactions and financially able to carry ont any obligations made by his firm. that the earth has turned once round on its axis, and that it does so turn. and that the heavens remain still and stationary. coveries have been made by the aid of spinning tops, and the facts obtain

NATIONAL BANK OF COMMERCE,

Tolečo, O, Hall,s Catarrh Cure is taken internally, actung directly upon the blood and muc-ous surfaces of the system. Testimonials sent free. Price 75 cents per bottle. So'd by all Druggiss. Take Hall's Family Pills for constip-ation. Toledo, O. the rotation of heavenly bodies, the earth included, and the "wabble" of its

Worms feed upon the vitality of child-ren and endauger their lives. A simple and effective cure is Mother Graves' Worm Exterminator. m Threis no poisonous ingredient in Holloway's Corn Cure, and it can be used without danger of injury. m

A worthy precenter got so irritated at a nger in the congregation who used to hund on my head and whispered, 'Son. I am proud of you.' That little state-band on the transfer of the second of the second and the secon A worthy precenter got so irritated at a

ket chicken is,

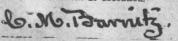
There is a movement on foot to secure state aid for poultry shows. We believe the state should first make adequate appropriations for poultry research on its experiment station, for poultry lectures at farmers' institutes and town associations. Then let the state establish a state show, county or district shows for the exhibition of utility poultry and eggs and place the appropriation and management in responsible hands

Some farmers will spend \$100 to jail the man who stole a bushel of corn, but they won't spend a red cent for traps, poisons or repairs to stop the rats and mice that devour and destroy bushels and bushels of grain in the fields, and barn, and granary, and corncrib, and cellar on their farms every year.

A case holding thirty dozen eggs is most too large to be filled promptly from the average farm flock, thus there is often a wait before the case is filled and part of the eggs deteriorate. A six or twelve dozen case is better and means better eggs and better pleased and better paying trade.

Mrs. John Weckesser of Bayonne, N. J., had the police court clerk issue a summons against the rooster of Mrs. Goldwebber for assault and battery on her eighteen-month-old baby. there is a preacher on the jury that poor rooster is sure to get it in the neck.

Two foolish ways to use louse pow der or moth balls is to put them in the dust box and the nest. This is simply waste, and the balls are apt to spoil egg embryos. The bugs are on the fowl, and the killer should be worked down through the feathers to the skin, where it will do execution,



"The happiest dream I can recall," said a successful business man, "was Asthma Doesn't Wear Off Alone. Do not make the mistake of watting for as-thma to wear away by itself. While you are waiting the disease is surely gathering a stronger foothold and you live in danger of stronger and yet stronger attacks. Dr. J. D. Kellogg's Asthma Remedy tak-en early, will prevent incipient condition from becoming chronic and saves hours of awful suffering. m one I had ten years ago. In it I was with my good mother again, seated in the old home church. Slie placed her

Several cases of whiskey consigned to arties in Learnington were scized by nspector Stone at Ruscomb.

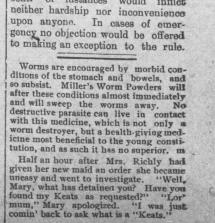
care and annoyance during the day sea. Its low altitude makes it much and the best safeguard they can take fainter than higher Sirius, as the light with them into the world is the unmust traverse layers of dust and wa seen influence of a bright little domter vapor near the earth's surface. estic circle. Still it is magnificent, especially when

Canopus has no parallax that the An Objection to Sunday Funerals highest power telemicrometers that can be made are able to measure. This

Unless in exceptional cases, Sunis one of the most overwhelming facts lay funerals are undesirable, epsecialwithin the entire range of human experience. This means that if one goes lyin country towns and villages where to Canopus with the most powerful the clergy on that day are not contelescope ever made, turns and, looks fined in their ministrations to one back this way, the base line, the entire church, but more often than not diameter of the orbit of the earthtake services at three different 185,764,000 miles-dwindles to a minute centers, being compelled to make point too small to be measured by any long drives between each gathering. microscope. Some idea may be had This fully occupies the whole day, of the immensity of the universe by and to be called upon to officiate at thinking of this fact during each spare a funeral as well, upsets their usual minute. Better to so think than to routine, and usually means the cutwaste the precious moments.-Edgar Lucien Larkin in New York American. ting off of one or two of the services

in outside districts. Apart from this, when the minister remains at A reader asks how the name Uncle Sam came to be adopted for the imone church he has Sunday school. Bible class and other work to attend aginary genius who directs the des-tinies of this nation. The answer is to, and has no time for a funeral without upsetting the usual plains very simple. "Uncle Sam" is merely of the day. a popular expansion of the letters "U.

There is no class of men who pare themselves less and are spared ess by their congregations than preachers, and with six other days in the week for interments their agitation for the abolition of Sunthat have * * * gained for the govday funerals is a reasonable desire ernment of the United States the good for a concession which in 90 per cent. of instances would inflict neither hardship nor inconvenience upon anyone. In cases of emer-



cle Sam."-New York Post. Right to the Point, Some months ago excavations were being made for new tracks on the line of a certain railway. At one point a nearby resident obtained permission to emove a quantity of turf to resod the premises, the section foreman being instructed to notify the excavating "gang" when the resident should have secured all he desired. The foreman's report is as follows: "The man that wanted the earth has got it."-Exchange.