### THE COLUMBIAN, BLOOMSBURG, PA.

WORM THAT KILLS DOGS Eound in Hawaii and Check Canine Development.

OLD ANIMALS IMMUNE Secretary Vredenburgh of the Amarican Kennel Club Learned of the Pest at Honolulu-Nocturnal Mosquito Lays the Egg and it is Lapped Up in Water.

2

While in Hawall to attend the initial bench show of the Hawaffan Kennel club, A. P. Vredenburgh learned of a worm that kills dogs, says the New York Sun. The dogs lap up the germs, which are believed to be the larvae of a nocturnal mosquito, in the dr tiking water. The developed worms penetrate the neart and cause death by choking up the blood passage. The Havaiian name is the "heart worm," It is so prevalent that it is rare for a dos bred on the islands to live until three years old. Beyond that age a dog is regarded as immune from the attacks and old dows brought in o the istends are seid on the vict ma of the heart worm.

A might flying monoulto, harmians to the inhabitants but must territ, as in appearance to a visitor frunt the Avfantic seaboard, is believed to deposit the eggs of the worm on the water that the dogs drink. The pest is call to have been growthit to the labor form Japan minny years ago and in that country attack chills and horves. as well as dogs, but in Hawall the Hve stock is free from its ravants. The worm is supposed to hatch in the stemach or intestines of the dog and when in the germ state, to gain entranct to the veins and by the blood canals to the heart. Here the worms cluster and develop, with the final cffect of killing the animal by choking the main artery. It is not determined. I believe, whether the worms then die in their turn or pass into another period of life as mosquitoes.

Each worm is from two to four inches in length, white in color and without apparent organs of any sort. They are very thin, say about the thickness of a small knitting needle. and suggest bits of white knitting slik. They are found in clusters of eight or ten in the heart of the dead dog. grouped about the source of blood supply as fish gather at the inlet to a pond. I inspected the worm infested hearts kept as specimens in the munoum of the local board of health. The experts said that specimens of the worm and similar exhibits had been sent for examination to the government scientists at Washington but that a full identification had not been made or any antidote suggested.

The presence of the worm is made known by a hacking cough, which is followed by a dulness of coat and eye, with an increasing debility to the end. In company with Dr. I. Charleton Fitzgerald, dn Irish veterinarian, I visited the best kennels of pointers in Hawa'i. The owner, a prominent merchant, showed us a puppy he knew to nfected and asked the doctor to end its misery. The pointer had never been outside of the kennel and every effort had been made to guard the dog's drinking water from pollution. which reveals how insidious is the approach of the post. I saw the puppy killed by humane means and watcaed the subsequent autopsy. In the valve of the heart we discovered the deally cluster of worms, precisely as I had been told.

#### NEW YORK'S GREATEST SHOW Where There is Standing Room Only at a Goodly Premium.

A seat on the New York Stock Exchange sold for \$95,000, and \$97,000 was bid for another. The man who bought the seat will probably never occupy it, as it has no tangible existence in fact.

There are eleven hundred members of the New York Stock Exchange and the seating capacity on the floor of the Exchange is not over forty. These seats consist of the small wooden benches around the posts on the floor. They are usually occupied by specialists of the various stocks, so that unless the new member becomes a specialist, which is not likely, he will have paid \$95,000 and \$2,000 initia ion fee for the privilege of standing upon the floor of the Exchange every day from 10 a. m. to 3 p. m.

This is the cost of the rare priviler of entering this exclusive body where the price of securities are made every day and which create the standand of speculation and investment in American stocks and bonds the whole world over.

While the "seat' itself is a myth it forms an asset of the most tangihi character. It is as marketable as a government bond; it can be converinto each at a moment's notice; it a possession that a member even Le deprived of, although his mom privileges can be taken and from him for cause at any time ! to heard of governors who preover the discipline of the great in: ft lan

The term "seat" has come down frein the old days of the Enard tellers, when the members occur and the board-room facing t infruant, through whom the trad way done by means of the read tells and by open bidding. The exwe still retained on the Stock E change, but the membership grown so large that the old methor of trading have become obsolute. teats were abolished about forcy SCARS AGO.

A member of today must be ploand active and constantly on his i w in order to follow the market. es from post to post, apcordito the orders he has to execute, an he keeps track of his market threathe specialists who take their similar at the posts assigned to the variasecurities.

Stock Exchange memberships b gan to increase in value when a limwas set on the membership. This was originally 500, and it was reluctantly increased from time to time until 1°20 when a final limit was established at 1,100. In that year the membership numbered 1,055. It was then decided to raise the limit to 1,100, and for it permanently at that figure. In order to do this forty-five seats were sold. and they brought \$17,000 each. This price represented an advance since 1871 of \$14.250.

In the boom of 1882 seats sold as high as \$32,500, but in the panic of 1884 they sold as low as \$18,000. "hfollowing year, however, a new high record was made at \$34,000, and als for many years was the record price When the panic of 1893 came a num her of members were forced to self their seats, and the price fell as law as \$15.250.

The Exchange is opened every hust



The Gold Mining Region of Cooigardie Supplied With Water at a Cost of \$14,000,000-The System to be Fiepeated to Irrigate Other Waterissa

It is expected that the next few years will witness the development of the most remarkable system of water carrying in western Australia that has ever been seen. The plan is to reput again and again, the successful easineering work that is now supply ag the great gold mining region of Cook gardie, far out in the desort of the interior, with plenty of water broatal

Regions.

away. This western Australia desort coutains perhaps the largest waterless rogions in the world. When David W. Carnegic made his second journey across it, several years ago, he travelled 800 miles without flading anything that suggested a permanent source of water.

from the coast mouniains, 325 Elines

For many days he saw nothing but prickly spinifex covering the stad ridges, which were forty to fifty feet in height and extended east and west parallel with one another. He wrote that he crossed more than eighty of the sand ridges in eight hours' travel.

Under repellant sands lie the great gold resources of western Australia that are now supplying more of the metal every year than all the rest of the commonwealth. When the resh of miners to this great thirst region began, the eager search and the frantic strife for water was sometimes tragical.

'the government sought for under ground sources of supply, but most of this water was found to be so impregnated with salts that it was unfit for use. Engineers finally devised a plan of water delivery from the western coast mountains, about twanty miles to the south of Perth, which involved the largest pumping scheme that has yet been carried into operation in any part of the world.

The works were completed only a few years ago and they are attracting all the more attention because the population that is paying \$14,000,000 for them is still quite small.

The amount of rainfall in the basin of the Helena river, which flows through the Canning Hills south of Perth, is about 30 inches a year. It was found that by impounding this river a supply if 5,000,000 gallons a day would be available for transportation into the interior.

The problem was to transport this water a distance of 350 miles, for it was proposed to extend the aqueduct to the Kalgoorlie diggings, east of Colgardie, and this has been done. Mundaring, the place where the Helena river was dammed, is only about 300 feet above the sea, but the sur face of the desert to which the water was to be carried is about 1.650 above. sea level, so the water was not only to be transported as far as from New York city to Lake Erie, but to be lifted during the process about 1.300 feet. There are eight pumping stations, a little more than forty miles apart, and the water is kept moving up the long but very gentle incline. In finally reaches a reservoir month mlies west of Coolgardie, and from this point gravitation takes it to the 45,000 inhabitants of the Coolgarile mining camps and to the Kolgooris region beyond. This water is sold out there in the desert at a comparatively small price considering that interest must be paid on the money borrowed to develop the works. It sells for about 75 cents a thousand gallons, and it musplies not only those distant mining camps, but also some twenty or thirty settlements on the way to them "n small pipes carry water to stockman or villages miles away from the main line Up to this time the consumers have been able to obtain all the water desired of the very best quality and at all times of the year. Stockmen along the route who had supplied their animals from scanty wells that might run dry at any time have lost this fear for the pipe line is an unfailing source of good fresh water at all times.

CONSTRUCTING A BALLOON. Doctor Julian Thomas Gives an Inter-

#### esting Account.

It may interest the reader to hear something about the construction of a big modern bolloon and its equipment, says Dr. Thomas in Appleton's Magazine. It is made of what is known as balloon cloth, which sometimes is of silk and is sewn in small sections of about a yard square, so that if one of the sections should burst the whole balloon would not collapse and destroy the aeronaut.

At the top of the bag is the vaive to let the gas out when one wishes to descend. A rope for opening it runs from this valve through the center of the balloon to the operator in the basket. The balloon is filled through the neck, and this is left always open, so that when the gas expands from the heat of the sun or the lesser pressure of high altitudes, the gas may escape and not burst the envelope,

As soon as the balloon is newn together it is blown full of air and given three coats of varnish. Each cont. must be allowed to dry thoroughly before the next is applied, or e'm they would never become perfectly dry and the balloon would be likely to be destroyed at any minute from spontaneous combustion.

This spontaneous combustion is not a fursting into flame, but a klad of exceedingly quick dry rot. I mutant have lost three balloons through 14. Once, in my factory we were leak's at a beauty when some one sollied the air and remarked: "Thomas' balloon is gone," and so it proved to be. Five minutes saw it destroy rotton so that you could peke your finger through it.

Sometimes the balloon is no effect ed in only a few sections, and a man may make an ascension thinking hi balloon is all right. Protected by th fine netting which envelopes the bit loca itself he may even get up to some height before discovering his danger. In former times there were many fatal accidents from this cause When a balloon is packed talea or some other powder is sprinkled

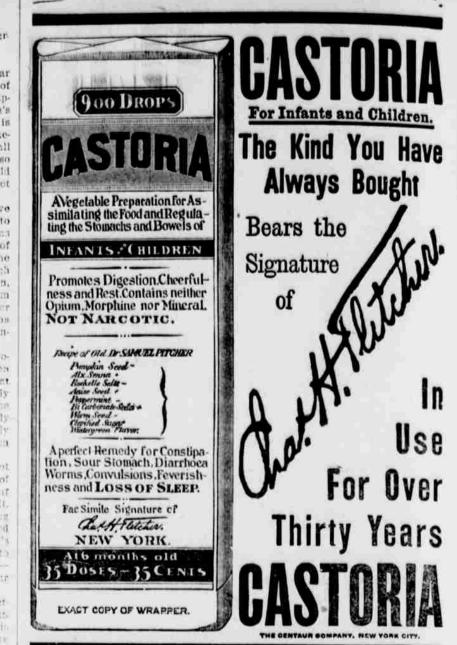
over the folds to keep them from adhering to each other. If this is neglected the balloon will be ruined. especially in hot weather. As I said, a fine netting covers the

balloon proper, both to strengthen it and to carry the weight of the basket and its contents. All the stran's of the netting come together in the concentrating ring, just above the bastet in which the aeronaut stands. The anchor and guide rope, as well as the barket, are fastened to this concentrating ring.

All modern balloons, besides the valve, have a rip cord, fastened to a long patch sewn in the envelope, by means of which the balloon can be cut open and brought to the earth instructly. This is never used except in cases of extreme emergency and when the basket is within ten or fifteen feet of the ground.

The first cost of ballooning is smaller than that of automobiling but each ascension costs about \$300. The delights of the sport are so intense that in the reaction after they are over the earth seems tame and not worth while.

One has almost to become acclimat



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#### The Fur Trade.

The fur trade of North America has always been largely conducted on the principal of barter, writes Luncan MacArthur in the New England Mr zazine. The transactions with the Indians are carried on in a very simple manner. When a hunter brings in his collection of furs to any trading post, which he usually does twice a year, in October and March, he is taken to the trading room, where the official in charge carefully examines, claralflos and values each skin, and when the whole pack is gone over he hands the Indian a number of tallies, or small pieces of wood or metal, each representing the value of a "made beaver." and the whole representing the value of the entire catch.

The Indian then proceeds to the storeroom and selects such articles as he requires-blankets, capots, guas, knives, tea, tobacco, etc .-- in payment for which he hands back his tallies unt'l they are all gone and his purchising powers are exhausted. He then departs, another hunter takes his pince and is dealt with in a sim x monner, and so on until all the furs it, the possession of the whole band of Indians have passed into the hands of the trader. Formerly it was customary to give a good hunter a "dram" and some small presents in appreciation of his industry.

#### Meaning of a Term.

Virginia has found it necessary to pass a law declaring that for all legal purposes the words "railroad" and "rallway" are to be considered synonymous.

#### Too Much Attention.

"Americans pay too much attention to wealth.

"Yes," answered the rural million aire, "especially the men who assess property."

nera day at 9:50, but no business car be transacted until 10 o'clock, when the chairman, who occupies a sea upon the rostrum, announces the open ing. It is the duty of the chairy to open and close the Exchange, no we've order, and make all announce wents, such as deaths, insolvenet Sc. He also buys and sells st "ander the rule"-that is, when member is unable to make good 4 liver'es, stocks are bought or " for his account by the chairman There are five hours of trading. Techange closes promotly at 3, Octto can be made after that hour A of \$50 is imposed on a member a makes any transation in sigtonda listed or quoted in the B+ page, efter that hour or before 10 . In the Exchange or publicly out

a soon as the sound of the chair o'r gavel is heard at the opening habil of voices is raised. The open T is usually active, as orders acen muth's overnight. To the enlooker 's the gallery everything is apparently noise and confusion. Here is business he would say, without any system If he did not know he was in the Exchange, he might suppose that by accident he had entered a lumitle asylum. He sees men rush wildly into a group, with violent gestures and raised vo'ces, push and straggle and shout, all apparently to no purpose But now and then he will observe some one to leave the group and quietly make a memorandum on a pad.

#### Cold From Sympathy.

Coldness of feet and limbs is al most invariably an evidence of indigestion. The coldness is due not to the weakness of the heart or feeltsners of circulation, as is generally supposed, but to the contraction of the small arteries, preventing blood from entering the parts. There is generally an irritation of the abdominal sympathetic nerve centres which control the circulation of the lower extremities. This difficulty is not to be removed by exercise or or by any special application to the limbs, but y removal of the causes of irritation. This may be a prolapsed stomach, or chron'e indigestion. Hot and cold footbaths are valuable. These ac not simply on the feet and limbs, but by reflex action affect beneficially the abdominal sympathetic centres, which are in a diseased condition.

There has been no interruption of the flow on account of accident to the pumps, because extra pumps are installed at every station for use in case of need.

It is to give the widest possible application to this great idea whose practicability has been so thoroughly demonstrated that the people of western Australia are now turning their attention. The rivers do not come from far in the interior, for the rainfall is too small to have much surface flow.

But nearer the coast the precipitation is guite large, and engineers are now working on plans for saving all of this water that can be collected and sending it out through pipes far into the interior, not only to supply mines, but also to give life to many thousands of acres of farm and grazing lands, so that the agricultural and grazing industries may be far more widely extended over the country than was formerly thought possible.

ed to descending from the high , 'ti tudes; for a week after an ascension I have no appetite and am depressed Incidentally I should not recommend ballconing to a person of weak heart or nerves.

When one leaves the earth the 'ra pressions come so fast that one can hardly differentiate them. They row duce a kaleidascopic effect. A man must stop and concentrate his mind on certain special sensations, or etsu on returning to earth he will find that he has no sensation in particular to tell about.

There is the impression of the crowd of people shouting and within their hands. Before you realling they have vanished as individua The earth sinks from you: the have become tiny boxes, the streets l'no and large rivers appear brooks that you could easily jump across.

The lakes are pools and marahinit seems solid.

Forests become smooth like pasture land. Railroad trains are like convy ing worms and all the earth sound: eventually cease. At one or two thousand feet you pass the dust line, when is as clearly marked as the line between water and air.

As high as two thousand feet there are still frequently seen butterdes, mosquitoes and other insects. Remarkably beautiful effects of crouds are seen from the balloon. They often seem like snow banks, and their edges are always bluich like water and ever give the aeronaut the sensation of approaching the ocean.

When in the clouds you can see only the basket and its occupants; and suddenly pass out of them to find that you are driving straight into a mountain peak, as we did once. if you stay in the fog there is nothing to warn you of such danger except the roaring of the wind in the tree tops, and a quick casting out of bal last may be necessary to save you from balloon wreck on the crags.

Masterpiece of Peter Paikoo.

On a postcard of the usual size shown at the Bucharist Exhibition is written the Bulgarlan constitution in full, the opening speeches of various European parliaments and two poems by Rudyard Kipling-12,000 words in The calligraphist, Peter Pailtoo of Sofia, spent nine hours a day during three months to accomplish the feat.

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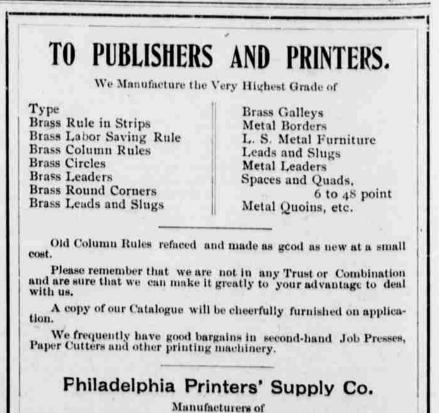
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