TELLS EXTENT OF UNIVERSE It Is Bel'eved That Milky Way Is 200,000,000 Times Earth's Distance from Sun.

To determine a single position of any one star involves a great deal of computation, and if we refleet that, in order to attack the problem in question in a satisfactory way, we should have observations of a million of these bodies made at intervals of at least a fraction of a century, we see what an enormous task the astronomers dealing with this problem have before them, and how imperfect must be any determination of the distance of the stars based on our motion through space, writes Simon Newcomb, in Harper's Magazine. So far as as estimate can be made, it seems to agree fairly well with the results obtained by the other methods. Speaking roughly, we have reason, from the data so far available, to believe that the stars of the Milky Way are situated at a distance between 100,000,000 and 200,000,000 times the distance from the sun. At distances less than this it seems likely that the stars are distributed through space with some approach to uniformity. We may state as a general conclusion, indicated by several methods of making the estimate, that nearly all the stars which we can see with like a frightened bird. Men were our telescopes are contained with- stationed at every belaying pin, in a sphere not likely to be much holding halyards and clew lines, more than 200,000,000 times the by a single turn "under and over," distance to the sun.

ask another question. Granting that all the stars we see are con- to the last minute, the utmost the tained within the limit, may there not be any number of stars without the limit which are invisible only because they are too far away to be seen?

AMERICAN SWINE INDUSTRY

The Hog Has Proved an Important ways, a quality of mind usually ex-Factor in the Wealth Production of the United States.

The swine industry of the United States is a feature of resources that figures high in the agricultural wealth of our country, says the Nebraska Farmer. To the Des Moines, Iowa, Postmaster Finds hog, more than any other influence, are we indebted for the finely improved forms and beautiful spread out over the vast area of its increase of production as the his new employes. increase of population demanding pork production.

Equine Which Had Served Him 23 Years,

A strange case of the affection a man may have for a dumb brute came to light at St. Louis when Favorite Patrons Can Obtain Almost the will of Dr. John Gilwee was probated. The first clause of the instrument provided for a trust fund of \$2,000, to be held in the name of a faithful old horse, Tony, which had served the physician continuously for nearly 23 years. The clause in the will was as follows: "In case that my horse Tony, which I have used for nearly 23 years, survives me. I order that \$2,000 of my estate be placed in trust at six per cent. per annum, and said interest used for his food, shelter, and care so long as he lives, and after his death the said \$2,000 shall be divided among my legal heirs."

His Regular Price.

They were playing checkers. "Crown that one," said the lawyer, pushing a piece into the king

"That will cost you \$15," said the dentist, absent-mindedly .-Chicago Tribune.

NERVE OF YANKEE CAPTAIN

Old Sea Dogs Frightened by Amount of Sail Carried, But Skipper Lets It Stand.

In parallel 57 degrees, in the dog-watch four to six p. m., wher the chief officer came on deck to re lieve the second officer, he swiftly cast his eye toward the horizon in the direction of the wind, then at the struggling canvas, and particularly at the main topgallant sail. which threatened every minute to blow away, says Frank J. Mather, in Atlantic. As nautical etiquette forbids the officer in charge to alter canvas when the eaptain is on deck without his command or consent, the chief officer, after his hurried survey, said: "Capt. Mather, that main topgallant sail is laboring very hard." "It is drawing well-let it stand, Mr. Bartlett," was the reply. At six o'clock, when the second officer in turn relieved the first, he also gave a rapid glance about, and said: "Capt. Mather, that main topgallant sail is struggling hard." "It holds a good full, let it stand, Mr. McFarland," was the reply. Even the old seadogs among the crew begged the petty officers to send them up to take in sail, while it was held safe to do so. As the helmsman turned his wheel, every turn of a spoke would make the ship jump in the water ready to let go and clew up, at a The inquiring reader may here signal. We were making a record passage, and sail was to be carried ship could bear, while every exigence of storm was anticipated. Later in the evening the captain could not belp asking if the crew atill thought that he had married the owner's daughter. Capt. Mather illustrated then, as alhibited by those who succeed in most any direction-an extreme daring and extreme caution run-

APPAREL BARS MAIL WOMEN

ning parallel.

That Carriers Must Work in Male Clothing.

The postmaster of Des Moines, cities that have, as by magic, Ia, finds himself in a somewhat peculiar position. With a view to agricultural lands from Ohio in economy he decided to invite womthe east to the Missouri valley in en to apply for positions as postthe west. The civilizing influence men. A number of women apof the corn crop has changed the plied, and, having been put millions of acres of wild prairie through an examination, which lands to the fertile, cultivated they passed satisfactorily, the fields, rich with the clovers, grass- documents were then sent to the es and improved crops of modern postmaster general for ratificaagriculture. Without the hog this tion, and that exalted functiongreat district of agricultural ary, seeing that the names were lands, lying in the center of what is known as the corn belt, could the Christian name, failed to denever have attained its prest tect that the subordinate had inent distinction of wealth and troduced a change. The women, business reptation. As a fac- therefore, being appointed starttor in wealth production the hog ed work in due course, and it was is justly entitled to the distinction only when the uniform departof "the pioneer" among our meat- ment came to deal with the new enproducing animals. The Ameritrants that trouble arose. The can hog has fastened his hold so uniform of all letter-carriers is setfirmly, not only upon our own peo-tled by law. It consists of three ple, but upon those of almost garments, which need not be specevery country on the globe that ified otherwise than to say that the industry of swine raising is of the postmaster of Des Moines necessity made as progressive in found they were unsuitable for

The postmaster general is considering it, but it looks as if the LEAVES LEGACY TO HORSE women would not be retained. The suits of uniform are lying in the St. Louis Physician Wills \$2,000 to post office of Des Moines, and the women are delivering letters clad in their ordinary raiment.

CREDIT AT PAWNBROKERS'.

Any Amount They Desire on Jewelry or Personal Property.

lish a line of credit with pawn the New York Times. brokers is a proposition beyond "Sure you're no soldier; you're belief to the man who has been of- only a fake," declared the guardifered only \$20 on a watch that cost an of the peace. \$75. The fact remains, however, "I'm a soldier all right, and says the Philadelphia Record, that don't you forgit it. I lost me leg all pawnbrokers have favored pa- in the Spanish war and I've me patrons on their books who can al- pers to prove it," stoutly protestways get the amount of money they ed the vendor of guide books. want upon almost any old thing. The bystanders at once took the that takes the shape of jewelry or side of the veteran who could other "hockable" personal prop- "show his papers," and the policeerty. A local sport tried to raise man ceased to molest thim. He \$50 on his split-second stop watch soon disposed of all his stock in the other day, and was offered \$30 trade to the sympathizing crowd, less than the value of the case and the following day the hotly melted. A friend who had an es- contested spot was occupied by a tablished credit took the same man in citizen's clothes. watch to the same pawnbroker "Where's the soldier?" inquired and got \$75 on it without a ques- one of his yesterday's customers. tion being asked. It was the man, "Oh, he's gone on his vacation." not the watch, that made the loan was the unexpected reply of the

CHOLERA VICTIMO

Heroic Measures Fracticed in Buines Ayres to Check Spread of Disease.

"Some years ago I found mysel in the city of Buenos Ayres at a time when the cholera was ragin; in that capital," said D. J. Aur buckle, of New Orleans, to

Washington Post man. It happened that as I walked along a public thoroughfare one day while the plague was at it neight I saw a man fall to the ground, and I surmised that h had been stricken with the dream disease. Before reaching him noticed a policeman approach the unfortunate and administer drink to him from a bottle which I had no doubt contained a restor ative or some kind of medicine At the same time the policeman blew his whistle for an ambu-

"The vehicle came very quickly and yet before it arrived the man was dead, and it was a corpse that was removed. I remarked to the officer that the medicine had been of no avail. 'Certainly not, senor, he answered, 'it was not medicine I gave him, but a deadly poison. That is the way we have to do now to check the spread of the cholera. Besides, the man would have lied anyway.'

"I never experienced a deepe feeling of horror in my life and looked on the policeman in the light of a murderer. Yet he doubt less regarded what he had done as in the nature of a disagreeable ne cessity, and, politely bidding me adios, went his way."

FAMOUS ROYAL GRAPEVINE Grows in the King's Gardens at Wind sor, England, and Is 129 Years Old.

While, in these days of widely diffused knowledge in relation to the production of grapes, many persons find it difficult to obtain well ripened clusters from com paratively young vines, it is ex tremely interesting to refer to a great vine planted 129 years ago and bearing a crop of some 1,000 bunches, the berries finely developed and as black as sloes.

This grand old vine, says the Gardeners' Magazine, is growing and is known as the Cumberland odge vine. It is one of the de cendants of the famous vine at Tampton court, which was plant ed 139 years ago, and it has outdis tanced its venerable parent in di mensions, in vigor and in produc tiveness. Occupying a great glass structure 120 feet long by 20 feet wide, it spreads its luxurian branches over a roof area of 2,400 feet, which is fully one-third greater than the area of the house recupied by its venerable parent at Hampton court.

For so large a vine 1,000 bunch s, weighing in the aggregate 1,500 pounds, is not so heavy : rop, but the grapes are in every way befitting the royal table, and to overtax the strength of so old a vine would be unwise.

VACATION AFTER BIG SALE.

Man in Soldier's Uniform, Claiming to Be a Veteran, Enjoys Life When Wares Are Sold.

There is one person at least who loes not agree with Russell Sage in his theory that vacation is unnecessary. A man with a wooden eg and wearing a soldier's uniform stood for a long time in Park Row selling guide books and maps of Greater New York to strangers from out of town. He gained some celebrity because of the efforts of a policeman new to the beat to The men that can and do estab- loust him from his stand, relates

GAUGES IMPURITY IN AIR.

Clever Swiss Inventor Originates Instrument Which Tells Healthfulness of Atmosphere.

A clever Swiss inventor has originated an instrument which tells the exact condition of the air in a room-that is, its degree o. impurity, according to the Nev. York Herald. It is generally believed that if the air in a room is bad it will be sufficiently noticeable to the persons in the room without the aid of any instrument. But if one stops to remember how quickly the suffocating odors in acrowded room are perceived by a person entering from the pure air outside she will see that this state of things might be remedied by this new invention. The instrument consists of an air-tight glass receptacle in which is a red fluid. A bent glass tube is inserted in this and up this tube the fluid runs, to drop at the rate of two drops a minute on to a cord which is stretched by a weight. This fluid possesses the property of changing color when submitted to the action of carbonic acid gas. The more of this gas there is in the room the more pronounced the change in the color of the fluid.

With this fact in mind the principle on which the indicator works is easily understood. The drops of fluid as they fall on the string change it according to the condition of the atmosphere. Should the atmosphere be pure-the string remains red all the way down. Should it be slightly tainted the top of the string appears white. The fouler the air the longer the white marks on the string. By the side of the string runs an indicator, graded to show the exact condition of the air. The highest point on the scale marks "pure," the next "passably pure," then "bad," and from there down to "very bad' and "extremely bad." The instrument has been thoroughly tested and found to work perfectly.

BISHOP VICTIM OF A JOKE.

Opens Gate at Request of Child and Finds Hands Covered with Fresh Paint.

The archbishop of Canterbury, says the New York Times, is in the Cumberland lodge portion of known among his friends as espe. there they found that the practihe royal gardens at Windsor. cially partial to two things-chil. cal joker had been again at work. dren and jokes. As bishop of London he won no little of his great influence in the slum districts because of his immense popularity with the small citizens whom he se truly loved, and as for the jokes one need but to hear the famous prelate tell one upon himself to realize how keen is his sense of and zest for humor.

Not long before his translation he was one day walking in the suburbs of the English capital when he chanced upon a little girl, who was standing looking up some what wistfully at a four-barred gate. "Oh, please, sir," she asked, "will you open this gate for me?"

Smiling upon the demure maiden, the bishop lifted the latch and pushed back the gate, but in spite of its size it swung so easily that he said: "You're such a big little girl that I should think you could have opened yourself so nice a gate as this."

"Oh, I could, sir," she replied, but then I should have got my hands all over fresh paint."

And then the bishop saw that this was just what had happened to him.

THORN TREES FOR LAWN. Have Several Virtues to Recommend Them as Ornaments-Also Suitable for Hedges.

More than 30 years ago an eminent botanist called attention to the beauty of our native thorn trees and their suitability for hedges and for lawn ornaments.

Their hardiness and graceful shapes, thick foliage and brilliant fruit clusters all recommend them. vinie the ability to flourish on der a severe beating is an added virtue in the eyes of those who de sire formal shapes. Yet up to the present time, says a water in Country Life in America, our thorn trees remain the ornaments, not of private grounds, but of way sides and pastures; while the only pruners to exercise their skill upon them are the cattle, which eagerly browse upon the young shoots. Many a pasture contains shrubs fitted to grace a public park and worthy of considerable pilgrimage on the part of lovers of the beautiful.

A Practical Joker.

The following dispatch from attle, dated January 13, recently appeared in the Journal:

I lice and detectives of Seathe devoting most of their a at the present to looking for n veterious individual with sanotions of humor who has sent the department on many a In the chase in the last two weeks and also nearly driven a score of Scattle women to nervous prostration. Last night this individwal amused himself by calling a de zen of Seattle's most prominent thysicians to Bollong's saloon, 110 James street, to dress the wounds of a man who had been stabbed by the police.

About the time the doctors arrived with their medical cases five hacks drew up in front of the salcon to take the wounded man to his home. While the doctors and hackmen were in angry discussion some eight messenger poys tumbled into the saloon looking for the same man to tulfill a contract to carry a message to his wife. Bollong appealed to PARTINE LIVE STOCK ATCOTIONthe police for aid.

I wo days ago some jester, believed to be the man who busied himself last night, telephoned to the residence of Samuel C. Calderhead, the prominent politician and editor of Forest Echoes, the official organ of the Woodmen of the World, that he had met an accidental death. The family was prostrated by the news. An hour later Calderhead appeared hungry for his dinner and found THE FIRST NATIONAL BANK OF his family weeping at his death.

Christmas eve the same individual sent a message to the police that Dr. Crooks, a promirent physician, had been murdered in the suburbs. A patrol wagon full of police and detectives was sent a mile and a half to investigate the case. When they arrived they found three dead wagons of local undertaking establishments searching the neighborhood for fear of missing the corpse.

Friday night a telephone message was sent to police headquarters that there had been a murder committed at 110 James street, and a wagon load of efficers was sent there. When they arrived

FACT VERSUS FANCY.

Supposition Leads for a Time, But "Things That Are" Finally Is Allowed to Prevail.

"What would you do," she asked, according to the Chicago Record-Herald, "if you had taken me away out in the country in 4, 1803, "Having been your automobile and-"

"But I have no automobile."

you have one, and that you had a bettle of Ballard's Snow Liniment, taken me away out in the country can cheerfully recommend it, and will 20 or 30 miles from here, and it add my name to your list of sufferers." was getting late, you know-sun Sold by Graham & Wortham. going down behind the western hills and whippoorwills calling and all that sort of thing-and lonely place, far, far from any human habitation, it should-" "Why, there isn't any such 103-10

place within 20 or 30 miles of here. This part of the country is all Rev. Carilele P. B. Martin, L. L. D. thickly settled."

We will suppose that you have a troublesome collection of phlegm which on both sides of the road and probably not another person Said by Graham & Wort am. within miles and miles of us, the chain breaks and we have to stop, and-"

"If I were getting an automobile I'd either get a chainless one Yerkes observatory has sent an to us."

for the apple crop or something of that kind."

Matter of Langtin.

Husband (glacing over Why is it you pay three times an much for stockings as I do for

Will-Ch, that's all light. wear my stockings three times as long as Ti do.—Cincinnati Elquirer.

Gazette Companion.

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CLASSIFIED ADVERTISEMENTS:

Fifteen words or less, 25 cts for three successive insertions, or 50 cts per month; for all up to and including ten additional words, 1/2 cent a word for each

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eer Corvallis Or P A. Kline Line, Phone No. 1. P O. address Pox 11. Pays highest prices for all kinds of live stock Twenty vepre' experience Caticfaction angrantped

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WANTED 500 SUBSCRIPERS TO THE GAZETTE and Weekly Oreconian at

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Corvallis. Oregon, transacts a general conservative banking business. Loans money on approved security Drafts bought and sold and money 'ransferred to the principal cities of the United States, Europe and foreign countries.

Veterinary Surgeon

DR. E. E. JACKSON, VETERINARY Surgeon and Dentist. Permanently located here. Dr Jackson is a postgraduate and thoroughly qualified in veterinary work. See him at Occidental Hotel.

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B. A. OATHEY, M. D., PHYSICIAN and Surgeon. Rooms 14, Bank Building. Office Hours: 10 to I2 a. m , 2 to 4 p. m. Residence: cor. 5th and Adams Sta. Telephone at office and res-Corvallia. Oregon.

MARBLE SHOP.

MARBLE AND GRANITE MONUments; curbing made to order; cleaning and reparing done neatly: save agent's commission. Shop North Main St., Frank Vanhoosen, Prop. 92tf

MISCELLANY.

Cured Lumbago.

A. B. Carnon, Chicago, writes March troubled with Lumbago, at different times and tried one physician after another, then different ointments and liniments, gave it up al-"O, well, we will suppose that together. So I tried once more, and got which gave me almost instant relief. I

STEAMER POMONA

For Portland and way points, leaves suddenly, when we were in a very Corvallis Monday. Wednesday and Friday at 6 a. m. Albany 7 a. m. Fare to Portland, \$1.75; round trip \$3 00.

H. A. HOFFMAN, Agt.

Of Waverly, Texas, writes: "Of a "But this is simply imaginary, morning when first arising. I often find

taken me away out to this lonely odge: but a small operation of principles which spot, and suddenly, just as it is Horehound Syrup will at once dislodge beginning to get dark and we were it, and the trouble is all over. I know of no medicine that is equal to it, and it there all alone with dense woods is so pleasant to take. I can most corit. He recommend to to a 1 persons needg a remedy for throst or lung trouble.

New Attack on the Sun. With the aid of \$10,000 granted

by the Carnegie institution the

or one with a chain on each side, expedition to Mount Wilson, near so that such an unfortunate thing l'asadena, California, for special as you suggest couldn't happen investigations of the sun, under the personal direction of Prof. "O, well, if you think it would George E. Hale. A horizontal rebe unfortunate, let's go in the flecting telescope of 145 feet focal house and talk about the outlook length is to be employed to produce an image of the sun 16 inches in diameter, which will be investigated with a spectroheliograph of 30 feet focal length. The spectroheliograph is an instrument with which it is possible to study the solar surface in light of certain selected wave-lengths, the other light being shut out. Thus a photograph of the sun taken with the light emanating only from the calcium vapor in the photosphere presents a very different aspect from that taken with the light of the hydrogen wapor. - Xouth's