Che Watchman and Southron. Published Wednesday and Saturday. -BY-OSTEEN PUBLISHING COMPANY. SUMTER, S. C.

Terms: \$1.60 per annum-in advance.

Advertisementa:

Contracts for three months, or

longer will be made at reduced rates. All communications which subfor as advertisemen' .

will be charged for.

now has the combined circulation and ment. influence of both of the old papers, and is manifestly the best advertising prepared a supplementary text book medium in Sumter.

SUNSHINE A GERMICIDE.

the Sun.

which have actually been made real- time. ize how quickly sunshine kills disease germs exposed to it. Hence the fol- miniature farm is to be conducted lowing tests may be generally instructive and interesting.

A pastry, creamy mass of tubercu- science of agriculture. lous material, which was proved to smooth translucent layers on sheets were then placed outdoors on a mod- least in two. erately warm, clear, calm day where tained large numbers of living, viru- in the schools. lent tubercle bacilli, which were prov-

masses of tuberculous material, larger the children in a sort of emulsion and denser than any tuberculous per- form ready for assimilation, and for son is apt to expectorate, proved that practical application. In this way the bacilli in such masses on glass are it is hoped to prepare them for their still alive after 4, but entirely dead in life work directly, or for higher eduless than 8 hours, and still alive in the cation, should such be desired or material on wood and muslin after S, available. but dead in less than 16 hours.

The tuberculous material in thin layers on glass, wood, and muslin, kept in a dark room, was proved to remarkable, tubercle bacilli of the completed just before the Thanksgivsame kind, on the same kind of ma- ing holidays, in order that the little

the rays of the sun in less than half proved to be a wise one. an hour, though they remain alive in dark places a month and longer, it is reasonable to draw the following conclusions:

(a) As a general sanitary principle reach their interiors.

handling milk, and milk cans afte. took place. they have been cleaned, to direct sunapparel, blankets, bedding, rugs, horse blankets, etc., periodically where the sun can shine on all parts of them.

Real Estate Transfers.

Mrs. M. C. Stubbs to Martha Joyner and Evangeline Joyner Edwards, lot on Manning Avenue, \$400.

W. W. Sumter to Mrs. Julia V. Rees, lot in city, \$325. A. Clarence DuRant to Adelaide E.

Ricker, lot on Hampton Avenue, \$2,-

Alice Alston to David Ragin, 7 acres in county, \$70.

Perry Moses and Rosalie V. Moses to R. Virginia Phelps, lot on North Washington street, \$12,000 and other

considerations. Epsy Ard, Eugenia Kelly, H. B. Hodge and Elisha B. Hodge, to Mat- Jan. . . 11.64 11.83 11.64 11.82 11.67 would guide the boat out to sea betie W. Davis, their right in 72 acres Mch . .11.92 12.11 11.92 12.10 11.95 tween the encircling rocks that mark

TEACH FARMING IN SCHOOLS.

College Will Cooperate With Rural Schools of State.

Clemson College, Nov. 22.-The extension division of Clemson college, at the request of the State superintendent of education and the Une Square first insertion \$1.00 county superintendents' State asso-Every subsequent insertion.. .. .50 ciation, has entered into an agreement to cooperate with the educational forces of South Carolina in teaching agriculture in the public serve private interests will be charged schools of the State. The division has issued bulletin No. 11, "School Obituaries and tributes of respect Room Work for Club Members and Others," outlining the character of The Sumter Watchman was found- work to be done and naming the bulad in 1860 and the True Southron in letins and texts necessary to the 1866. The Watchman and Southron execution of this cooperative agree-

The extension division has also in agriculture, with special reference to South Carolina conditions, and the State superintendent of education has agreed to have this text publish-Tests Show That Germs of Disease ed and sold at actual cost by the va-Can Not Survive When Exposed to rious county school book depositories. This text book, "Agriculture for School and Farm," has received Sunshine is an amazingly potent hearty indorsement from educators germicide for the farm housekeeper and others in this and other Southand the dairy and stables. The prac- ern States as an appropriate book tice of exposing cooking and other for study by pupils, teachers and utensils used in connection with food farmers. The book is in catechism to direct sunlight makes use of this form, appropriate for use in the fact, although comparatively few ap- sixth and seventh grades, and any preciate exactly the work done by the teacher, whether agriculturally trainsun in this regard. Probably only ed or not, can teach it and learn those who are acquainted with tests something of the subject at the same

In addition to class room work, a on or near the school grounds for teaching the arts as well as the

The essentials alone will be taught contain uncountable numbers of viru- and only a short period each day lent tubercle bacilli, was obtained from will be required to teach, even in the a tuberculous cow and spread in thin sixth and seventh grades, principles which, if put into practice judiciousof glass, pieces of wood, and strips of ly, will revolutionize the agriculture muslin. Some of the sheets of glass, of the State within five years, double pieces of wood, and strips of muslin yields, and cut fertilizer expenses at

Clemson college will provide a suthe sun could shine on them, and an pervisor of agricultural instruction equal number were placed in a dark in the public schools. He will work room. After 15 minutes exposure to in close cooperation with the public the sun, the tuberculous material on educational forces of the State in inthe glass, wood, and muslin still con- troducing and developing this work

It is realized that only a small ed to be fully capable of causing tu- percentage of the public school popberculosis, but after 30 minutes ex- ulation would or could ever receive posure to the sun no living tubercle such training otherwise, ' from lack bacilli could be found; every test that of opportunity or desire or both to could be made proved that they were attend college. It is proposed, therefore, to digest the subject of scien-Similar tests with quite large opaque tific agriculture and to give it to all

Thanksgiving Holidays.

The City Schools have just finished contain fully virulent, living tubercle the examinations for the first quarbacilli after 30 days. The contrast is ter. These were so scheduled as to be terial, dying in a smaller number of break in the work would come just at minutes in the sunshine than the this time. The holidays will last until number of days they remained alive in Monday. The reports will be issued on that day and by then the teachers As most varieties of disease germs will have ascertained the points that are more easily destroyed by germi-need to be particularly stressed, as cides than tubercle bacilli, and as tu- revealed by the examination papers. bercle bacilli, in the thin layers in It has been a custom for many years, which they are likely to adhere to as it is in most of the schools, to give clothing, blankets, rugs, draperies, fur- both Friday and Thursday for holidays niture, walls, floors, etc., are killed by at Thanksgiving, and the custom has

Death.

James B. Holladay died at his it is desirable that all dwellings, home at Summerton on Monday afterstables, etc., should be so constructed noon after an illness of about five that an abundance of sunshine can days, although he had been in bad health for about two years, aged about (b) As a general protective meas- 70 years. The funeral services were ure against disease germs, it is an ex- held at the Summerton cemetery on cellent practice to expose utensils for Tuesday afternoon, where interment

Mr. Holladay is survived by Mrs. light, and to hang or spread wearing Fannie Holladay, his second wife, two sons, Messrs. William J., of Brunson, S. C., and P. J. Holladay of Summerton, two daughters, Mrs. Essie E. Davis of Brogdon, and Mrs. A. K. Bernshouse, Sumter.

SUMTER COTTON MARKET.

Corrected Daily by Fraest Field, Cotton Buyer.

Good Middling 11 7-8. Strict Middling 11. Middling 10 7-8. Strict Low Middling 10 3-8. Low Middling 9 7-8. Staple cotton 14 to 17c.

HAMMOND A GENIUS.

Extension Department of Clemson The Naval Authorities Take up His Wireless Control for Torpedocs.

> (Charles W. Duke, in the Philadelphia Ledger.)

John Hays Hammond, Jr., will live in history as the inventor of wireless control for torpedoes. Only last week he visited Secretary Daniels and conferred on the accomplishment of his invention. Army engineers nave recommended purchase by the government of his apparatus and ideas, after exhaustive tests conducted under the eye of experts.

Japan got a line on the wonders of Hammond's "electric dogs" and made him a fabulous offer. Without telling Uncle Sam anything about it, Hammond turned down the offer. His experiments were then just on the turning point to success and since the Japanese offer he has made still greater advancements.

Hammond's wirelessed-torpedoes will virtually make the second line of defense impregnable. That's what the young inventor modestly claimed for his work when United States experts first began looking over the results of his years of research.

Germany has shown the world wonders in the line of submarines. But Germany had no way to guide a torpedo to its mark after it was launched. They depend entirely on the accuracy of their aim and their careful mathematical calculations. Hammond goes further. His torpedo set in motion can be controlled by the human voice. Simply in the principle of the control of mind over matter. Hammond's torpedo on the crest of the wave can be turned right or left, forward or backward, by a wireless impulse ashore, until crashing eventually end-on into the target aim-

In the dirigible raids the Germans have let loose indiscriminate volleys of fire darts and explosive bombs. In the further elaboration of Hammond's apparatus a missile can be launched in midair and then, by the manipulation of wireless control, directed at any desired mark. It is entirely possible that in the very near future, under the direction of Hammond, a shell from a monster 16-inch coast defense gun can be similarly directed after leaving the muzzle of the weapon to hit any desired mark

on the high cliff fronting his home, whence he directed most of his experiments, Hammond, Jr., told me of his years of endeavor. High above us sang the antennae stretching between towering wireless masts. These masts rise 300 feet above their granite bases and are said to be the highest wooden wireless masts in the world. They are insured at Lloyds' for \$10,000, and are all part of the apparatus with which Hammond worked out his inventions.

In another laboratory down near the water's edge Hammond showed me the uncanny little electric "dogs" from whence he first got his inspiration for the wireless-controlled wea-

They are uncanny because they are inanimate, dumb-looking things which, once you point a flashlight at them, follow you about with dogged persistence. Turn your flashlight and walk in an opposite direction and the electric "dogs" follow you on. The 'dog" has eyes of bulging glass; his body is a long walnut box. Inside the box is a storage battery, an electric motor, solenoid magnets, selenium supper combined at the residence of discs and relays. The "dog" gets Mr. T. M. Crosswell, Dalzell, S. C., on about on three wheel "legs," and his Tuesday evening, November 30th, 8.30 tail is an electric switch.

Hammond first brought out a "wireless boat." It was a 40-foot craft with a speed of 33 miles an hour and equipped with the latest in radio-dynamic apparatus. The vessel was a stepping stone from the "electric dog" of the laboratory. In a short time this small craft was making trips to sea under the power of her own engines, but without a single soul aboard. From a lookout station high up on the cliff Hammond shot the tiny craft back and forth over a 10-mile course. At times the boat flew along at the high speed of a torpedo destroy-

Hammond had all manner of discouragements. He first used a type of Marconi coherer, which proved unreliable and not at all suited for his purpose. The coherer was used on the harbor boat to receive wireless impulses from the shore. For a time Hammond was in despair. He toured all the capitals of Europe and consulted with the world's most famous rad.a-telegraphers.

Returning home in despair. he set about the evolution of a coherer of his own make. It is hardly necessary to say that this little instrument is one of the keynotes of Hammond's success and jealously guarded deep down in his mind.

The boat Radio was equipped with the new instrument. And then began the series of experiments which have Yest'dys brought Hammond into his own. From Open High Low Close Close his lookout on the hill Hammond in county, \$5 and other considerations. May. . . 12.11 12.29 12.11 12.29 12.12 the entrance to Gloucester harbor, By

the touch of a key on shore he would release the power of a hundred horses. Flashing out over the dark waters that power was concentrated upon the radio-dynamic equipment of the boat.

A fishing smack looms up in the distance. It is an imaginary battleship. Searchlights from shore spot it out. Instantly the tiny wireless boat tacks in her course and shoots straight for the fishing vessel. Straight up under the lea of the boat drives the imaginary torpedo. Just when it seems a crash is inevitable the torpedo craft turns off gracefully and the fishermen blink their relief in the glow of the searchlight.

Fi-Fi of The Toy Shop to Be Big Attraction.

Next week the affair of importance theatrically in Sumter is the big home talent play "Fi-Fi of the Toy Shop" which will be given December 2 (next Wednesday) for the benefit of Dick Anderson chapter, U. D. C.

George E. Shaw, a professional director, has been in town ten days rehearsing this play, which has been given over a thousand times in every part of the United States and in Canada, and which promises to be the best home talent show ever staged here. One hundred and fifty people, little fellows and grown-ups, compose the cast featuring the best talent in Sumter.

The play has just been staged in Darli gton for the public schools and brought out one of the largest audiences that ever made its way into the Darlington Theatre. Great interest is already beginning to manifest itself in Sumter and the ladies plan to make the play one long to be remembered in Sumter. Mr. Shaw has stated that he is pleased with the talent submitted and says that Sumter is fortunate in having such a good calibre of amateurs.

Marriage License Record.

Licenses to marry have been granted the following colored couples: Samuel Mitchell and Camilla L. Simmons, Dalzell; Fred Rose and Lillian White, Sumter; Lucius Smith and Annie James, Alcolu; Carl Haynsworth and Mary Dowling, Dalzell; Willie Johnson and Rachel Jones; Tommie Wilso nand Emma Brooks, Mayes From a pretty little rustic teahcuse ville; Charlie Haynsworth and Almeta

Geometry Required.

Plato is said to have written over his door: "Let no one ignorant of geometry enter here." Today such a restriction would reduce his visiting list. Perhaps outside the professional mathematicians he would have no one at all. All the artists, the philanthropists, the historians, to say nothing of those ladies and gentlemen of leisure whose critical faculties are so importantly developed nowadays, would certainly be absent, and, worse still, would suffer very little at their exclusion. Yet going back into the centuries for guests, a distinguished company might have been assembled of those who, without being famous merely for mathematical studies, were known to have understood and loved the subject. The Greek philosophers would have been there in a body, Alphouse X, Omar Khayyam, Albert Durer, Leonardo da Vinci, Descartes, Pascal, Napoleon and Lewis Carroll.

Notice, Notice, Notice.

For the benefit of the Dalzell Methodist church, big barbecue and oyster P. M. Everybody invited to come.

Committee.

Notice.

My farm northwest of Sumter, on Stateburg-Providence road, adjoining lands of Holman and Folsom, and my land east of Sumter on the Mayesville road, adjoining lands of Shaw and Reams, are posted and all persons are warned not to trespass on same by hunting or otherwise.

C. P. OSTEEN.

WANTED-My friends to know that I have installed a modern gasoline filling station at my store and will be pleased to furnish gasoline at Sumter prices. J. H. Myers.

FOR SALE-Fulcaster Wheat; Appler oats; Appler oats with vetch, mixed; Bancroft oats; Fulghum oats (more prolific and matures three weeks earlier.) All recleaned and faulty grains and grass seed removed. C. P. Osteen, Sumter, S. C.

Geo H. Hurst,

Undertaker and Embalmer.

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