DESERET EVENING NEWS: SATURDAY, FEBRUARY 7, 1903.

The Government's New System of Wireless Telegraphy



forces her way to th front. It has been thus with one thing and another for the last century, and thus doubtless it will ever be, for the records show that of all the patents of value taken out in the entire world more than 75 per cent are issued to citizens or residents of the United States. A few years ago when Marconi, the brilliant young Italian, startled the world with his announcement of the practicability of wireless telegraphy most persons scoffed. He demonstrated in an incontrovertible manner the validity of his claims, but as his experiments had been carried on over comparatively short stretches the world continued to scoff, even laughing outright when this daring young foreigner declared that within a very short time he should be able to send a wireless message across the Atlantic ocean The world had its laugh and its joke at Marconl's expense, but now he and the other wireless men are doing all the smiling, for what Marconl predicted has come to pass, and, what is more, i was done with such absurd case that the public can hardly realize that such cating with a point five miles distant, of money for proper equipment.

but quickly

Aside from the fact that the Hertzian

UNTR



The world at large regards Marconi the development of wireless felegraphy until he had practically perfected his this was invented in 1890 by Branley. a sort of hammer blow, which, as it as the inventor of wireless telegraphy, was doubtless delayed by several years apparatus. Later on the army and The coherer consists of a glass tube, were, shakes the filings loose. waves, discovered by Dr. Hertz, form | coni systems were the best known up adopted his system after exhaustive trodes are introduced. Between the in- | ed by an instrument operated by a litthe basic principle of all of the systems to a very short time ago, when the in- tosts, and then the eyes of the scien- ner ends of these electrodes, which do the local circuit. But, nevertheless, the so far exploited, it is a fact that the formation was given out that Lee de tifle world were turned upon this man, not quite touch, are placed metal filman who may with greatest propriety | Forest, a young scientist of New York, who is but twenty-nine years of age, ings. When the electrical or Hertzian markedly limits the capacity of the re-

things can be. The joke of it all is the regarded as the inventor of wireless a graduate of Yale, had perfected a and had never been heard of before. Impulse is given, these filings are that the cabling across the ocean is telegraphy is Dr. Branley of France, system of wireless telegraphy which Naturally any man following the in- magnetized and close the circuit, thus was expected to evercome most of the dividual whose name has become idenand energy at their command. Thus not to take the world into his confidence was the "coherer."

tions working in a building. But the objections unded against its predeces- tified with a certain invention must ratus. the only difficulty being in overcoming | Frenchman practically went no further, | soral It must not be supposed, however, | have something new, some improvement, | trouble comes in with the coherer: there certain mechanical obstacles, any one | being apparently content to leave his | that De Forest had sprung full pano- | to offer. Otherwise there is no excuse | is nothing to break the circuit and proof which may be easily swept aside by invention to the tender mercles of piled into the areas. For years he had for his presence in the field, What duee the other half of the sound necesthe wireless experts by the expenditure vounger men with more time, means been working, but he was wise enough made the Marconi apparatus possible sary to complete The Arco-Slaby, Fessenden and Mar- navy departments of the United States into the opposite ends of which elec- matter of fact, this blow is administer-

But right here is where the the telegraphic char-It is asserted that acter. Marconi breaks this circuit by As a coherer was and is an objection, as it

ceiver. Marconi is said to have ad-mitted as much and is even reported to switch and awalts his answer mitted as much and is even repring the again raises the switch and have devised a plan for overcoming the again raises the switch and necessity for the use of the coherer by other message. means of something which he calls a 'magnetic detector.'

But Lee De Forest when he began his | him to experimentation, with wireless telegraone current with another phy was shrewd enough to see that the mechanical phases of the instruments must be reduced to a minimum. Accordingly he put the idea of the coherer out of his mind. In his instru- that ment a "responder" is employed. The ments may be attitude operator sits with a pair of ordinary telephone receivers at his ears, and the potentiality of the Herizian impulse passing down the wires attached to the antennæ on the pole fegisters in this receiver and is immediately written into message form. There is nothing to | ments of watch, nothing to handle; simply to record what comes of itself into your stance, during a wa ears. And this, by the way, may come as rapidly as the operator is able to send it.

The simplicity of all wireless telegraph instruments is almost startling. To the layman the impression is given that it is impossible for the primitive looking apparatus to do the work for which it is made, and which, by the way, it does in a remarkably thorough manner. The De Forest is even more simple and uncomplicated than most of its competitors. The power for this comes from a dynamo. In the De For- along these lines is her est experimental quarters a direct curis conceivable that be rent of 110 volts operates a motor, which in turn actuates a dynamo producing the necessary alternating current. By an ingenious arrangement this is "stepped up" to a voltage of 20,000.

Messages are sent by an ordinary Morse key, with a resulting noise that would put the average Fourth of July celebration to the blush. The size of the sparks thus brought into being and their businesslike snapping about the "spark balls" are usually sufficient to | Only sixty h convince the layman that he is looking at Manila and upon something decidedly out of the ordinary. The sender after getting his

would be exceedingly as might Interfe means are 'exclusive" truments sim sibility of

To an impart

prested in the

telegraphy have

al war shall on

ty horsepower at each of r





SEVEN FEET TALL.

TING COUPONS.

This is a snapshot of Clyde Fitch in an eligible bachelor.

CAMERA MAN. guage!" and swiftly passed on.

George Ade, famous as a humorist Augustus Thomas, author of those fame and fortune.

THINKING PART.

Paul Kester, author of the plays his study very busily engaged in cut- before he became a playwright, is the great American plays, "In Mizzoura" "When Knighthood Was In Flower," fame with a single play, "Mistress wick," "Heartsease," "Dr. Belgraff," "Richard Carvel," "Janice Meet ting coupons and doing his best to "look author of the farcical operas, "The and "Alabama," is a Missourian, and "The Cavalier," "Zamar" and "Sweet Nell," the play that made Henrietta "El Capitan" and coauthor of "The "David Harum," "Rupert of Henri pleasant" at the same time. The au- Sultan of Sulu," "Peggy From Paris," everybody in St. Louis calls him Gus. Nell of Old Drury," is only about 5 Crosman a very successful star, is a District Attorney," is a native of and other popular books, is the thor of "Sapho," "Nathan Hale," "Lov- etc. He is about 6 feet 2 inches tall. He was a page in congress, a law stu- feet 2 inches tall and probably native of Wisconsin and a practicing England and is thirty-six years old. prolific dramatist living today. ers' Lane," etc., is beyond a doubt the has a swarthy complexion and is a na- dent, a railroad man and a reporter, weighs less than 100 pounds. A lawyer in New York. Before he be- He came to America in 1883 and for a one has declared that Rose training greatest living American playwright, tive of Indiana. His head is a liter- artist and editor before he struck his faithful student and a hard worker, gan the study of law he was much in- number of years was an actor. His a new play every fifteen minutes In 1901 he had four successes running ary mine. from which he extracts true winning gait as a dramatist. His he holds high rank among the play- terested in the drama and dramatic first play was a "locomotive melo- this is doubtless incorrect. He In four New York theaters at the large chunks of the most fearful and great success, "Alabama," was writ- wrights of America. He is an Ohioan writing, and to secure practical stage drama" written around two lithographs native of Quebec, Canada, and a same time. Like Beau Brummel, the wonderful slang. One day Henry E. ten in three weeks. His first dramatic by birth and is only thirty-three experience he acted one season with Minnie Palmer's manager happened play acting in a barn when he manager happened pla hero of his first great hit, Mr. Fitch is Dixey, the witty actor, saw Ade, work to attract attention was "Editha's years of age. His playwriting ca- the Booth-Barrett company and two to control and was called "A Mile a knickerbockers. His serious des a very well dressed man and a lover Dunne, the Dooley man, and Hobart, Burglar," which he later expanded into reer began at fourteen, and he was seasons with Modjeska. His first Minute." Klein says that the only career began at the Boston Mar of the beautiful. His fad is collecting the creator of Dinkelspiel, sitting to- "The Burglar." He was years in get- barely of age when Alexander Salvini play was "Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe," which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe, " which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe, " which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe, " which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe, " which thing about the play that wasn't rapid when he was a super" at Edgar Allan Poe, " which thing about the play that wasn't rapid when he was a "super" at Edgar Allan Poe, " at Edgar All is only thirty-seven years of age and is ey cried, "God help the English lan- in great demand and has brought him matic work, and Kester traveled with it was too gloomy to win success for fact, they missed connections alto- made a great deal of money the its young author.

the actor for two years.

CLYDE FITCH AT HIS DESK CUT. GEORGE ADE SHYLY FACING THE AUGUSTUS THOMAS CAST FOR A PAUL KESTER DREAMING HE IS G. C. HAZELTON LOOKING FOR CHARLES KLEIN TAKING HIS E. E. ROSE LAYING OUT AN ANOTHER "MISTRESS NELL."

"HEARTSEASE" IN HIS STUDY. SCENARIO IN FIVE MINUTE

George C. Hazelton, Jr., who won Charles Klein, author of "Mr. Pickgether.

Edward E. Rose, who drimt

conservative medical ment

try are now fearing that b

extravagant claims made !

malin treatment, not by Dr

but by incompetent lay write

light in medicine may go

Dr. Koch's lymph and be for

his playwriting.

Dr. Barrows and His Formalin Treatment For Septicaemi



ANY of the greatest dis- | Therefore, as the woman to whose bedcoveries by which side he had been called had under the mankind has benefited known methods of treatment no chance have directly resulted to live, he determined as a last resort from accident, and to try the formalin. Accordingly he had this holds true in the made a solution containing one-five-case of Dr. Charles G. thousandth of formalin. Of this he in-Barrows of New York | jected 500 cubic centimeters into the

read of the experiments of an English patient, physician along these lines. He had Indeed, in most of the cases in which

city, whose formalin patient's left arm. At the time the treatment for septicemia has set the temperature had reached 107, and it medical world by the cars. Perhaps it was considered remarkable that the would be more accurate to describe woman did not die before the adminwhat Dr. Barrows has done as merely a istration of the formalin. Following possibility full of promise for the relief the injection her temperature continued of suffering mankind, for the doctor, to mouni for a few moments, when it with becoming modesty, declares that suddenly fell to 102, going after a few his treatment may or may not do all hours to 102. Eventually the woman

that the papers have ascribed to it. Briefly, the history of Dr. Barrows' connection with the injection of for-was not destined to have all smooth malin in cases of septicæmia is as foi- sailing. Naturally his treatment was lows: He was called to a woman who employed by others-men who in many was apparently in extremis. She had cases were almost wholly ignorant of given birth to a child, blood polyoning the proper method of administration. ensued, and there seemed to be no hope | In at least one instance the patient was of saving her life. Had it not been for directly killed by the formalin, for that fact it is probable that the for- while the physician in charge had givmalin would never have been tried by | en less than Dr. Barrows had em-Dr. Barrows. But he had long been in-terested in the matter of producing a into account the "individual idiosyngermicide which, while effecting the de- crasies" of the sufferer. Then, too, the sired result, would not be dangerous to treatment has been tried in a number the patient. He had heard that at the of cases in which the blood poisoning Loomis sanitarium in Liberty. N. Y., a was produced through mechanical solution of formalin had been used with means and in which, even though the apparently good effect in certain cases formally did all that was hoped, there of incipient tuberculosis. He had also was no chance of saving the life of the

long entertained the opinion that as the the formalin treatment has failed sigstreptococci of blood poisoning (septi- nally it has not been tried until every zemia) and tuberculosis are practically other resource hus been exhausted, Identical, formalin might be useful in when it was not wholly fair to expect the treatment of the former disease. But Dr. Barrows and reveral i

FROM ODD CORNERS OF THE WORLD.

Upward of 4,000 British postoffice number of ribs of any animals, the four hours, amployees served in the South African number being 320 pairs. campaign. Taxes on foreign visitors and resi-

lents are proposed in the Vaud canton, Campine, Belgium. Switzerland

the Philippines.

AS A SURGEON WITH

GENERAL CROOK.

possessed by a collie puppy born recentcountry are of materials for manufacly at Henloy, England. It only lived turers.

Baldness afflicts almost every young doctor available for a population of islad in Switzerland at an early date, swim, man who spends any length of time in 12,000 in the West Indian island of Nev-Two thousand frish donkeys have For he Philippines. The boa and python have the largest Nine eyes and three mouths were One-half of the imports into this constable at Vienna a nobleman has To rid themselves of the constable at Vienna a nobleman has the sender in the sender i

number of rick of any summary of the United been granted to the Jews in Russia. Beds of rock salt have just been dis-covered 2,000 feet below the surface at made contains 1.611,271 and California California Permission to acquire land has just

it is allegee and there is only one Public sambling is likely to be abol- ham board schools have learned to Over Low children attending Notting-

AS THE INTERVIEWER SEES HIM.

been fined 16s. 8d. for insulting the po- of the cheap products of prison labor Austrian manufacturers want their government to transport convicts be-

ond the sea. Medicine as a profession for women constantly growing in popularity in London. Women now holding medical degrees in Great Britain number more

After being hooked in the river Eden, near Spalding, England, the To rid themselves of the competition hours by three men, who relieved each a tennis ball it had system

other physicians have saved life with | almost immediately gave up h this treatment, and, while the medical iments, being disgusted with a profession as a whole is still unwilling surdity of the statements all him and wounded to the qui to admit that it will prove as efficacious as Dr. Barrows hopes, most of its attitude of many of his pa members are fair enough to admit that brethren who accepted as con the path blazed out by the New York him statements which he f physiclan is worth fellowing. have carried, at least to their refutation with them

Dr. Barrows does not appear to be inclined to take entire credit for the present application of formalin, despite the fact that he is undoubtedly the first man to employ it in cases of blood polsoning. Instead he freely acknowledges his indebtedness to a well known English physician, of whom he says:

Dr. Barrows is rather below "I have learned since my use of forerage in height. His com malin of the brilliant work of Dr. Ma-guire, who in December, 1900, published somewhat florid, as though b been bustling about, as perha an article in the London Lancet in which he described the use of formalin ally has been doing. He has is vate practice, which occupies a in tuberculosis. He injected a solution into his own velns in order to determine time, though he will not per how much the human system could thing to interfere with his his stand. He used enough of the solution ties. He was for several year geon in the United States and to be equivalent to one-fifty thouing successively with Crook at sandth of the amount of blood in the in their campaigns against body. This is about the same quantity skins. During his experience in which I have employed it." five years with Crook in An

There is no affectation in Dr. Barwas practically always in the rows' statement that he regrets exwhile he was not supposed to b ceedingly the publicity given to his disthe fighting force, the exist covery, which, in his opinion, should not have been exploited in the secular campaigning in Arizona an eighties was not a bed of p press until some definite determination he often attended to the would concerning it had been arrived at. In the opinion of many physicians, we under fire.

The doctor is a native of 2 might today have been using a tuber-Miss., and is not yet forty-sit? culosis serum had it not been for the age. He is a graduate d fact that Professor Koch was pracsity of Virginia and of New 1 tically compelled by the German govversity. He has been practical ernment to divulge in advance of his York for about sixteen years readiness to do so the process by which he compounded his lymph. The doctor

> other. Eventually the line b the fish escaped. Missouri is now credited greatest corn yield, estimated at 315,000.000 bushels, fown a

second. with 300,350,390 bath Kansas and Nebrasks follow. As it was apparently subm indigestion, a bullock and

CHANNING A BART



Five thousand pounds is the value of collection of historical uniforms which the kalser is lending to the exhibition to be held next year at St. Pe-

tersburg Posted on Dec. 21, 1896, to an address Two thousand frish donkeys have For uttering a strong expression of returned to the sender in England at Gibraltar, a letter has only just been | than 500.