INCREASE IN DISTANCE COVERED

Future Possibilities Touched Upon-Successful Tests of Automatle Train-Stop Signal System.

With the progress in efficiency now becable, or at least competing with it, for all long-distance work. Much very sucmanful cable work is done today over weak to serve the purposes of signalling. retransmitted from time to time en route passed into a relay, this instrument amplifies, with the aid of a fresh source of electric power, these weak currents and automatically sends off a fresh message, o that without any intermediary operators telegrams can be sent over a great distance very rapidly.

But now take the wireless current, or radiation," which travels at such a rate that it circles the globe in one-fifth part of a second. Make these signals strong enough and have sufficiently delicate re ceiving apparatus, and direct telegraphy from England to Australia or China beies possible, says the London Dall;

Such distances are not accomplished yet, but 4,000 miles and more are being considered commercially where 2,000 were considered two years ago. Wireless work of the future will be long-wave wireless, waves sent out into space five, ten, or ore miles each in length, where a very few years ago they were only three to six hundred yards. And with greater distances covered, larger amounts of power are being transmitted also. The current is measured in microamperes; the mil-Bonth part of the current taken by the average hundred-candle lamp is a micromiffices when passed through a telephone to give an audible signal.

A Revolution in Progress. It is in the reception of the messages that the great revolution in wireless is fost taking place. Printed tape mensages will be substituted eventually for the present audible ones in all commercial wireless work. An operator in the ordimary way at present has to listen with double headpiece telephone for just idible buzzes or burrs, and to decipher these as he goes along, perhaps managing twenty-five words to the minute. In a said: tape recorder each dot or dash is automatically printed (or registered photographically) upon a moving band of paper, and the number of words per minute recrived depends merely upon the agility of the mechanism at the transmitting and receiving stations-for the transmission is matic also. The measages are converted into little holes punched in a more than one is likely to be chosen from 'It has placed its dollar mark upon the apparatus that is sending out the of the mint.

"automatic" will be accomplished quite Tatas. enough power at a wireless station to set any receiving apparatus, however delicate, in motion. In the early days printed tape messages were received over the short distances then dealt with through the agency of a detecting device which became quite impossible when the number of signals traversing space became really great. The coherer, as this detector was called, was too sensitive in that it would respond to almost any and every wireless radiation in its range, as well as to the frequent discharges of electricity that take place from the atmosphere.

In the great evolution that is taking place at the present moment three things are contributing to the transmission of greater power, enabling us to operate mechanical printing devices thousands of

1. Wirless energy is to some extent being directed so that it is not indiscriminately sent out in every direction and 2. The immensely long waves now being

used travel through space without so nuch "dying down" effect.

3. Continuous waves, as used in the majority of new systems, travel so rapidly one after the other, and back each other up, so to speak, that far more energy arives at the receiving station

New Era in Commerce. There seems little doubt that before very long the continuous-wave system stand pre-eminent for commercial work. This differs from the older intermittent-wave system in that each wave follows the next closely and there is a continuous train of waves travelling the space between the two stations that are in communication with one another, whereas with intermittent waves there is a short train of waves gradually dying out, followed at some distance by another, then another, and rupted zource of supply, just as one could fill a bucket of water more quickly from a flowing tap than from of the two stations has to be extremely smaller towns in the state. accurate—an advantage for purposes ica and Europe. The Poulsen continuouswave system it is stated, is being adopted for the 3,000 mile station on the

Panama canal. Wireless telegraphy of the near future will help them. Price 50c and \$1. For will therefore mean transmitting very sale by your druggist.-Advertisement. rapid signals of sufficient power to actuate a printer which will record on paper the messages sent; a permanent record will be obtained and the rate of sending messages will be increased from the present twenty words a minute or thereabouts to perhaps 150 to 300. This should lead to s considerable reduction in telegraphic rates eventually, and so increase the amount of telegraphic correspondence

An Automatic Train-Stop.

In line with the demands of the Interstate Commerce commission that the railroads of the country must develop a signal system automatically to stop trains and prevent collisions the Queen & Crescent railroad at Cincinnati the other

ystem over a railroad division under ctual service conditions. The inventor has been developing his system to answer the signal requirements for dally service over 114 miles of track on the Queen & Crescent for more than a year past and MEMBERS OF CONGRESS WAKE UP has succeeded, it is said to the point of practical efficiency that is required in the daily operation of trains. Signals by the system are produced inside the engine cab, operating through track circuits, instead of compelling an engineer to crane his neck outside the cab in his efforts correctly to read and follow wayside siging steady striffes toward replacing the tage of applying the brakes and autogradually diminishes until it becomes too and returning over a water-soaked track. present wayside signal system operates. last twelve days.

of signal engineers of the New York Central lines, attended the test to make a special report as one of the leading signal authorities in the country. Other signalengineers in attendance were G. H. Dryden, Baltimore & Ohio; D. Gilsdorf, Baltimore & Ohio Southwestern; I. S. Raymer, Pittsburgh & Lake Erie, and J. H. Offelt, Nickel Plate railroad. - Boston Transcript.

BRYANS ENTERTAIN DIPLOMATIC CORPS

(Continued from Page One.) maining from the record-breaking storm during the morning hours.

Governor Dunne Receives, SPRINGFIELD, Ill., Jan. 1.-For the first time in twenty years a democratic governor held a New Year's reception in the Illinois capitol. Governor Dunne and ampere, but far less than this amount his wife received a long line of executive

(Continued from Page One.)

is in the west. He is of the old school of bankers that have weathered many-hair breadthed financial storms, but he has gone cleanly through every panic that has wrecked many less able men than he." Representative Stephens was also hearty in his commendation of Mr. Yates, and

"I surely endorse the splendid things that have been said about the fitness of and for the making of widows and or-Mr. Yates for membership on the reserve phans. It reaps harvests of gold by board, and I have no doubt that he would clearing the way for other harvests of make a very creditable member."

wireless signals.

Wireless telegraphy across the Atlantic naturally jeopardize the chances of Mr. Japanese Parliament it whispers of I call your attention to these perform-

regional reserve banks are designated.

eminently suited to the important post American battleships it had constructed. to which he aspires, in which he would; act as the agent and representative of the

Invitation to Hitchcock, The Chamber of Commerce of Pittsbe its guest of honor at a banquet on the evening of Saturday, January 17, and deliver an address. The banquets of sixty-three submarines, of which fortythat organization have always been affairs of importance in the business world, and its guests have included presidents, cabinet officers, senators, representatives and leaders in the diplomatic corps. Senssubject and length of time of his speech will be left entirely to himself. It is likely that he will accept.

The new library at O'Neill, Neb., nas of the nations. been designated by the government as depository for public documents, thus giving that institution the privilege of selecting any public documents it may deem suitable for its shelves.

Wants Better Mail Service. John F. McCarthy, a railroad man of Falls City, Neb., has written Senator Hitchcock an almost plaintive appeal to use his influence to improve the city delivery service of that town so that doorto-door deliveries will be made in the entire town instead of only a part of it as at present. While farmers living remotely in the country have their mail ing and fareighted policyv No. Mr. delivered at their door by rural free President, our war material makers, like delivery, many of the residents of the daughters of the horse leech, will town itself must get their mail either as much current as it can get, and it at the postoffice or in open boxes situcan clearly get most from an uninter, ated several blocks from their homes. Sweden, It is claimed that children will empty these boxes of mail and scatter it on the same tap if it were spasmodically for their juvenile games of "playing formidable neighbors. Russia suffered cometercial telegraphy, are much more postoffice, as it is claimed a similar

W. F. Gurley of Omaha, who has been of secret communication. They are pro- making his annual visit to relatives in duced in several different ways now, more Wachington the last week, spent New than one new system being on the eve Year's day here and leaves for the west of important experiments between Amer. Saturday, reaching home Monday next.

> Deadly Fright possesses sufferers from lung trouble till they learn Dr. King's New Discovery

day gave an official demonstration of a CREATORS OF WAR SCARES If Backachy or Kidneys Bother Part Played by Armament Makers

and Dealers in War Supplies.

Activities of Navy Lengue in Ping ging for Bigger Appropriations -Influences Working in Washington.

ing effected, wireless telegraphy is mak- nals. The system has the further advan- men are coming to have a clearer knowl- relief two or three times during the edge and perception of the part played night. When the kidneys clog you must matically stopping the train under danger by armament makers and dealers in help them flush off the body's urinous conditions if the engineer should for any munitions of war in creating war saste or you'll be a real sick person reason fall in his duty. The official test "scares." Observers of lesislation in shortly. At first you feel a dull misery great distances by what are known as of the system covered 160 miles under the Washington have long been familiar with in the kidney region, you suffer from automatic relays. The strength of the soverest signal conditions obtainable, run- the timely appearance of war "bogies" backuche, sick headache, dizziness, stomelectric current sent through a long cable ning from Ludiow, Ky., to Lexington, Ky., when the naval appropriation bill was sen gets sour, tongue coated and you about to come forward for consideration feel rheumatic twinges when the weather The system, it is said, thoroughly per- in congress. They have come to be fa- is bad. that messages have to be read and formed its functions as perfectly as the miliar, too, with the enginery of these Eat less meat, drink lots of water; also But if before this occurs the current is just as it has done in a service test the whom. For a long time the bulk of the Jad Saits; take a tablespoonful in a James C. Mock, chairman of the board but now they, too, are coming to see that few days and your kidneys will then act

Senator Thomas of Colorado is one of er at the capitol who have had their yes opened. The exposures of Dr. Leibknecht in the German Reichstag performed a public service that had its effect not only in Germany, but in other in the senate, Senator Thomas said:

vies in obedience to a public opinion cre- evercoming kidney trouble while it is AT HOME RECEPTION ated and stimulated by the interests which fatten upon public expenditure through the suggestion of international differences, the circulation of war rumors and comparisons of the relative naval is today. England responded to Cleve of a month ago were rapidly dissipated strongth of nations. Commercialism has land's demand in 1895 for the delimitation laid its hands upon national rivalries, of Venezuelan boundaries when our sea both actual and potential; upon national strength was negligible." ambitions and possibilities, upon the Monroe doctrine and the balance of power; upon the antipathy of the races; upon the conflict of democracy with abso- aspect of the same general situation when lutism; upon the opposing religions of he said: "Last year, when the naval apneighboring peoples; upon the jealousies propriation bill was pending, I called the of rival cabinets, and capitalized them attention of congress to the existence of BOOST YATES' CANDIDACY all. It has issued its common stock the Navy league and its activities. Among other things, I pointed out to all. It has issued its common stock the Navy league and its activities. monarchies and of republics, and entered the possible results in its ledgers.

Organized "War Trust." has formed and organized a war trust and sold or distributed its securities where they would not only receive, but bring, substantial returns. It manufactures and sells all sorts of articles designed for the wholesale slaughter of men, for the devastation of countries, blood and tears. It owns gun factories, ship yards and naval supplies in every McAdoe Favors Roberts.

There are to be five members of the board to be nominated. Of course, not and a treasury.

paper strip, the positions of the holes the Transmississippi country and it is patriotism and levied its toll impartially for each dot and dash being different, of said tonight that Secretary McAdoo on both hate and fear. It treats all councourse, and the perforated ribbon is favors the apointment of George E. tries alike. With the assemblage of spaced through a machine which controls Roberts of Fort Dodge, Ia., the director every congress it warns the United States of Japan and points to our unprotected The selection of Mr. Roberts will Pacific coast. With every meeting of the American ambition and points to our unpossibly within the next twelve months. A. P. Hopkins of Premont, Neb., will protected Pacific coast. With every dis-The difficulty so far has been to obtain be a candidate for the position of agent turbance in Central or South America it predicts European intervention and retrict in which Nebraska will lie when the minds us of our inferior navy. With every disturbance it urges European in-Representative Stephens of Fremont is tervention and suggests our inferior navy. interested in his candidacy, and said of It inspires German animosity towards England and French animosity towards "Mr. Hopkins has been in the banking Germany. It secures contracts for two business in Nebraska for ferty years or battleships from Argentine Republic as more. He is a very practical man and is a reward for disclosing the plana of

> "I believe as ardently as any man in an efficient navy. But what is an effifederal reserve board itself in that dis-\$2,000,000,000 in twenty-one years upon our navy. We have 277 vessels, in the aggreburgh has invited Senator Hitchcock to gate, of which thirty-eight are battleships, with thirty-three in commission. We have eleven armored cruisers; we have seven are in service. We have twenty eight torpedo boats and fifty-four destroyers, and we have six battleships in course of construction. But when congress meets and its committees consider tor Hitchcock has been advised that the a naval program, our deficient navy, our unpreparedness, our smaller guns, our obsolete warships, are said to invite not only the contempt, but active hestility

> > An Efficient Navy, When? "When shall we have an efficient ships as the Connecticut or the Iowa, but when we shall have builded them, what then? If England and Germany and Japan continue to build, will we dare to

a tempting prey to their more enterpriscontinue to cry, 'Give! Give! "Many nations are without navies. Norway, Denmark, Belgium, Holland, Switzerland, Spain and Portugal

may be cited. But these countries are the ground, while they use the boxes more immune to wars than their more turned on and off. These continuous postoffice." The appeal will be taken the destruction of its fleet in 1906, since waves, besides being more efficient for up with the proper authorities of the which time it has been quite as free from controversy and danger as its victorious delicate to "pickup," and the tuning situation exists in many other of the adversary. Our treaty of peace at Ghent with Great Britain prohibited the maintenance of ships of war upon the Great Lakes. This has prevented instead of promoting discord between the United State sand Canada. Who shall say that our relations with the great Dominion would have been as peaceful had their battleships and ours been launched upon the waters of the Great Lakes a hundred years ago and since maintained in constantly added strength and numbers? In our days of maritime weakness, the Mon-

> There is Only One "Bromo Quinine" That is Laxative Bromo Quinine

Always remember the full name. Look

CHARITY BALL NETS

Eat less meat also take glass of Salts before eating breakfast.

Uric acid in meat excites the kidners, they become overworked; get sluggish ache, and feel like lumps of lead. The An increasingly large number of public tated, and you may be obliged to seek

bogies how they were made and by get from any pharmacist four ounces of members of congress were not so alert, glass of water before breakfast for a there are war trusts, whose business it fine. This famous salts is made from is to create apprehensions among the na- the acid of grapes and lemon juice, combined with lithis, and has been used for generations to clean clogged kidneys and the latest accessions to the growing num- stimulate them to normal activity, also to neutralize the acids in urine, so it no longer is a source of irritation, thus ending bladder weakness

Jad Salts is inexpensive, cannot injure; makes a delightful effervencent lithiaountries. Discussing Winston Churchill's water drink which everyone should take and active. Druggists here say they sell anly trouble.-Advertisement.

Mr. Hensley of Missouri in a speech in the house drew public attention to a local members on both sides of the house, be cause there is no political division on this question, that J. P. Morgan was treasurer of this association. My attention has recently been called to the fact that, on account of this publicity, quite likely, he is no longer an officer of the league. Now, what is the Navy league, and for what purpose was it created? I am advised that it is sending retired naval officers all over the country to make speeches before boards of trade and other business associations for the purpose of creating and fostering a stronger sentibetter preparedness, as they put it. How many times have members of congress, especially members of the naval affairs committee, the chairman not excepted been put up against embarrassing situations in this connection by being lectured and railed at by individuals interested directly in naval appropriations? These things are not secrets. I am not violating

removed even though he was by reason of his high position. Some of them go so far as to tell us to what extent we should increase the appropriations. They are so numerous here in this great city when the society season is on that you cannot throw a stone without endangering a naval man or a milita y gentleman, retired or otherwise. What did Mr. Chief Justice Brewer say about them and 'preparedness?' He said

"The maintenance of 700 and more military and naval officers, active and retired, now living with their families in Washington, these, connected as they are gradually transforming the capital of their country into a military and naval center, and their influence is constantly pressing upon congress for continued development and increased expenditures in military and naval lines," "-New York

TWO-THIRDS OF MEN LAID OFF IN LOCOMOTIVE SHOPS

FAIRBURY, Neb., Jan. 1 .- (Special.)-A sweeping reduction was made in the navy? Some say when we have furty-one Rock Island locomotive shops at this battleships of the line. Not such battle- place today, when a large number of mechanics, including boilermakers, mathe Wyoming and the Texas, and costing chinists, carmen and their helpers, were from \$18,660,000 to \$30,000,000 each, with laid off indefinitely. This is the greatest cruisers and smaller craft to match. But reduction ever made in the Rock Island forces since the shops were established at this point in 1888. A number of foremen in the operating department were stop, when to do so must soon leave us also taken out of service,

Three train dispatchers handle the novement of trains over the Nebraska division, instead of six, as formerly. The locomotive shops and car yards are running with about a third of the usual Just how long the present re duction will remain in force is not known.

The Persistent and Judicious Use of Newspaper Advertising is the Road to Business Success.

GOODLY AMOUNT TO THE CITY MISSION

(Continued from Page One.)

soon as the professional dancing program was completed and continued till the gay rowd finally went home soon after clock. At the east end of the dancing floor two tables were arranged for serv ing fruit punch, while on the stage the supper refreshments of coffee and sandwiches were served by a dozen or more setpers from a long buffet table. Nominal charges were made for the refreshments, and, as they represented clear profit for the City mission, everybody was more than willing to give liberal patronage to those booths.

Colors Green and White. Green and white, with a dush of red, was the color scheme worked out beautifully by the large corps of decorators who had been busy on the big hall for several days. Thousands of pieces of green shrubbery, bunting, wreathing, ribton, corona lights, floral bells and other decorations had been art stically placed to give the large Auditorium a warmth and glow of beauty that gave the dancers an attractive background in which to stage their joyous festival.

Many dozen evergreen trees stood either end of the dance floor, hiding the pillars and bare walls and giving the whole atmosphere the air of the holiday season. On either side of the floor and at the east end on the end of the stage the dozens 'naval holiday" proposal the other day now and then to keep the kidneys clean of boxes were lined. These were draped with many oriental rugs, lighted with We have builded and are building na- lots of Jad Salts to folks who believe in large red-shaded lambs and backed by

Culls from the Wire

The body of Brigadier General George H. Torney, surgeon general of the United States army, was buried in the post cem-etery at West Point, N. Y., yesterday.

The greatest missionary problem, next to the evangelization of China with its 400,000,000, is that of the Moslem world."
Dr. Samuel M. Zwemer of Cairo, Egypt, said in addressing the Student Volunteer convention, which opened yesterday in Kansas City. Prof. Seth C. Chandler, an astronome

of international reputation, died yester-day, ascel 67 years, at Wellesley, Mass. He served on the government coast survey and for ten years was editor of the Astronomical Journal. The annual Fine Arts building prize of screen.

The annual Fine Arts building prize of \$600, awarded to the Society of Western Artists, was distributed among five of the exhibitors by the jury at Chicago yesterday. The winners are E. M. Birninghaus of St. Louis, Alice Schille and Maude Squire of Cincinnati, C. A. Corwin and W. A. Clute of Chicago. That customs revenues and other re-

ceipts at the port of New York were \$3,367,286 less in 1913 than in 1912 is shown by a statement made public yesterday by Dudley Field Malone, collector of the port. The total for 1913 reaches \$300,694,-182, as against \$212,961,388 in 1912. Of the total revenues for 1913, \$204,261,126 was deviced from imports duties. rived from imports duties. Search both by Chicago police and hos-

Search both by Chicago police and hos-pital authorities has failed to disclose any clue to the thirty-five milligrams of radium lost or stolen several days ago while being used in the treatment of a cancer patient. Unless the person hav-ing the precious particle of radium—it is half the size of a pin's head and is worth \$4,500—in his possession knows how to protect himself from its influence it may

PERSONAL PARAGRAPHS

call your attention to these performinces.

"Why, Mr. Chief Justice Brewer, in his
"Why, Mr. Chief Justice Brewer, in his
ast days, spoke out against this situaafter his recent illness.

FACE COVERED

eceived the samples of Resinol Scap and Resinol Ointment my face was covered with the military and naval forces, are with pimples which defied other creams, soaps and cosmetics. They were a source of constant humiliation to me, coming in contact with many strangers as I do, as a business woman.

"By the time I had finished a cake of Resinol Soap and half a jar of Resinol Ointment, my skin was soft as velvet, and as smooth. My friends were stunned, and everyone asked me what I had done. When I told them, I think they hardly believed it, for the transformation was simply wonderful.

"Since then I have been using Resinol Soap and shall never be without it again, for I have learned the delights of a clear, soft, beautiful complexion that may be attained by its constant use." (Signed) Miss E. P. Gaddis, 284 South Pryor St. Resinol Ointment (30c and \$1.00), and Resinol Soap (25c), stop itching instantly and speedily heal eczems, and other skin humors, dandruff, sores, burns and piles. Sold by every druggist. Avoid "aubstitutes" for Resinol offered by a few unscrupulous dealers. For free trial, write to Dept. 35-R, Resincl. Baltimore, Md.

Brandels Stores January White Sale Mext Monday Walt for It

May happiness come to you abundantly, and prosperity attend you throughout all the New Year

Open bright and early this morning for the biggest Clearance Sale in our history-and, by the way, our big ad in this paper on Thursday should have interested you greatly.

OMAHA'S FASTEST GROWING STORE

BINSON & THORNE Q

1516-18-20 FARNAM STREET

Tubercular Exhibit at Y. M. C. A. Building

Tubercular organs, bones and tissues. preserved in fluid so that disease will not be spread by them, will be part of an anti-tuberculosis exhibit at the Young Men's Christian association open house this evening. A piece of meat from a tubercular animal killed at one of the South Omaha packing houses will probably be shown.

The display will be made on the third floor of the association building and will be in charge of Mrs. K. R. J. Edholm, executive secretary of the Nebraska Society for the Study and Prevention of the Dread Disease. Literature of the society and charts illustrative of its work and the precautions necessary to avoid consumption will also be included in the exhibit. In an adjoining room Dr. S. R. Towne will give brief lectures on the subject during the evening, with a radioptican to throw illustrations upon the

WILL NOT BE AT HEAD OF MOYER'S BODY GUARD

BOONE, In., Dec. 21 .- (Special Telegram.)-Chief of Police S. F. Moyer, returning from a visit with C. H. Moyer, his brother, in a Chicago hospital, says he will not be a member of the bodyguard with the head of the Western Federation of Miners on the latter's return to the Calumet mining district.

"I suggested that he have a bodyguard because his life is not his own up there alone," said the chief upon his arrival

Key to the Situation-Bee Advertising.

Brandeis Steres January White Sale Mext Monday-Walt for H

BULLET SMASHES WINDOW PANE NEW YEAR'S EVE

John Morrissy, 1822 Emmet street, was awakened late New Year's eve by somebody raising the lid. A stray bullet broke half a windowful of glass in Morrisey's Morrissy complained to the po-

DEATH RECORD.

Twaine Larsen. Twaine Larsen, who was brought to Omaha from his home at Newport, Tuesday died last night at St. Joseph's hospital. Mr. Larsen was 49 years old, and had been suffering for some time before he was brought to the hospital. His relatives have been notified.

Persistent Advertising is the Road to Big Returns.

Grandels Steres January White Sale

HELP

Hatty Hurdle Heaps of Heavy Winter Wearables

Our Eastern buyer didn't buy a job lot special for this sale. We bought 'em regular, but we don't make the weather. If we did, it's a cinch we would leave out the unseasonable weather-also the cyclone.

Loop the Loop Prices

\$2.00 and \$1.50 \$2.00 Gloves Shirts \$1.50 Gloves 50c Neckwear for \$1.50 Union Suits \$1.50 and \$1.00 \$2.00 Union Suits \$1.35 Neckwear..... \$1.50 Mufflers \$3.00 Union Suits \$2.00 \$5.00 Union Suits \$3.50 50c Silk Sox

Black, the \$2.50 Hatter

Kitty Corner from P. O.

109 South 16th St.

No Money Till Cured DR. E. R. TARRY - 240 Bee Bldg., Omaha Neb.

To reduce stock and keep my force of expert tailors busy I offer my high grade made-to-order Suits and Overcoats at lower prices than you would have to pay for ill-fitting ready-to-wear-after-they-alter-them kind.

All \$30.00 Suits-to-Order, now

\$25 All \$35.00 Suits-to-Order, now \$30 All \$40.00 Suits to-Order, now \$33

I CUT THE PRICE-NOT THE QUALITY

Reliable Fabrics, Honestly Tailored. Any time my garments don't make good-I will



NEW LOCATION-1512; DODGE STREET.