DESERET EVENING NEWS:

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# A Message to Circle the Earth In a Minute

"HE Fourth of July will witness a celebration unique in the history of Independence day. This will be the formal opening of the Pacific cable by an interchange of congratulatory messages between President Roosevelt and Governor Taft. The significance of the event is manifest, for the United States will at last be in direct communication with all her insular possessions and messages can be transmitted as easily and rapidly between San Francisco and far away Manila as between San Francisco and Washington. As things stand today. cable messages from the Philippines to this country have to be sent by a very roundabout route, traveling via Hongkong, Singapore, Madras, Bombay Aden, Suez, Alexandria, Malta, Gibraltar, Lisbon and the Azores, and vexatious delays are constantly experienced. Under the new order of things, how ever, whatever happens in any part of the United States and her dependencies can be almost instantaneously communicated to every other part.

The new cable will incidentally rende empty the vaunting words of Will Shakespeare's Puck: "I'll put a girdle round about the earth in forty min utes." Just by how much Puck's record is to be excelled may be made known in connection with the Fourth of July opening, for the Postal Telegraph com pany, in conjunction with the Commer cial Cable company, is planning to celebrate the day by transmitting a message around the world and the officials of both companies are hopeful that the test will be completed in forty second rather than in forty minutes. To that end arrangements are now being made that will insure virtually instantaneous communication between the various re lay points. The officials do not minimize the difficulties they will have to overcome, the most serious of which will be encountered in the journey from Manila to the Azores, owing to the

numerous relays and the red tape of foreign governments, but they expect that their plans will be so perfected that everything will go through according to schedule and an unapproachable world's record will be established.

As a matter of fact the test is important only in so far as it will be in San Francisco, Vancouver, Winnipeg, the nature of another tribute to the American genius-a demonstration of Eastern Telegraph company stood pre what has been accomplished by the pared to transmit a copy of the message building of the Pacific cable, which is from London to Tokyo, Japan, and re essentially an American enterprise owing its inception to the late John W. | York once more. In this way the test. Mackay and its completion to the com- while not world girdling, would be as pany of which his son, Clarence H. nearly so as was possible under the Mackay, is the head. For commercial circumstances. The message traveled purposes, however, there will be no a total of 25.416 miles and was received necessity of sending messages on sim- in New York forty-seven and a half flar world girdling trips-unless break- minutes after it had started on its jourages along the cable route necessitate ney. Naturally the feat was halled as very roundabout journeys - for the greatest distance that need be traversed between any two points will be only half way around the world. But it is interesting to know what can be accomplished in the way of rapid communication, and if only for this reason the test

Is certain to arouse a worldwide interest. Seven years ago a somewhat similar the United States and her colonies test was made, and it will be remem- nearer to one another. After leaving



Square Garden, New York, to witness what was then the most difficult experiment ever attempted in long distance telegraphy. The Postal Tele graph company was sponsor for the trial and had arranged to send a mes sage from New York to New York, via Montreal, Canso and London, where the turn, when it was to be hurried to New wonderful but it will pale into insignificance if present plans do not mis carry.

Undoubtedly especial interest will attach to the rapidity with which the message is flashed from San Francisco to Manila over our new cable, for this will show just how great a stride has been made in the direction of bringing bered that on that occasion twelve San Francisco the first relay will be thousand people assembled in Madison at Honolulu and the cable next lands on Sand island, in the Midway ony, so that the cable exiles will be the magnitude of the undertaking they group, which takes its name from the much better off than their colleagues show nothing of the delicate engineerfact that it is midway between the on Sand island. From Guam the cable ing problems involved in the construc-United States and the orient. Sand will continue direct to Manila, a disisland, one of the most desolate of the tance of 1,360 miles. It will first touch by those that confronted the builders of group, is practically uninhabited and the island of Luzon at its northern ex- the all British cable from Canada to rises but a few feet above the sea level, tremity, proceeding south along the Australia, which was ready for business In fact its highest point is said to be sand dune thirty-eight feet above high water mark. The cable company | to Shanghai. will maintain on Sand island a force of twenty-five or thirty operators and intends to do everything possible to make them comfortable. They will live in houses built by the company, which will

nasium and install ice making and distilling plants. From Sand island the cable will run 2,293 miles before making another landing, finally coming to the surface at Guam in the Ladrone group, one of the the completed cable, exclusive of the Islands ceded to us under the treaty of Manila-Shanghai extension, will be in Paris. This island has a population of the neighborhood of \$12,000,000.

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From Manila the wire will be extended The total length of the new cable,

6,871 miles, plus 10 per cent "slack" to or Vancouver and Fanning island would follow the contour of the sea bottom, or 7,558 miles in all. To keep this long from this the builders of the all also erect a chapel, library and gymline in repair the Commercial Cable company will have two ships constantly in commission, one of which will be stationed at San Francisco or Honolulu

and the other at Manila or Shanghai. It is estimated that the entire cost of about 9,000 and a large American col-1 While these figures suffice to disclose

tion of the cable, problems only equaled west shore until it comes to Manila. last November. Indeed, it is safe to say that were it not for the advances in engineering science during recent years the construction of such monster links

from San Francisco to Manila, will be as those joining Sand island and Guam have been out of the question. Apart American line encountered two obstacles which, while not insurmountable, necessitated some skillful cable laying.

One of these was a submarine moun tain west of the Midway group, rising from a depth of 2,200 fathoms to within eighty fathoms of the surface. The other was encountered about 500 miles east of Guam and was one of the deepest marine abysses ever found, having a depth of nearly 5,000 fathoms, or near

ly six miles. Each of these involved the making of a detour and a corresponding increase in the length of the cable. Great as has been the task the trlumph will be still greater, and those who have been instrumental in bringing about this latest American achievemen must feel a pardonable pride when, or Independence day, they start on its world girdling tour the message that will proclaim the opening of the all American link between the two hemispheres. It is not such a far cry back to the time when it required not forty seconds, but forty weeks, to convey a message over the territory that will be covered in the course of the coming test, nor is it so very long ago that the first cable was laid. Although it was in the eighteenth century that the Spaniard Salva suggested the possibility of subaqueous telegraphy it was not until the losing haif of the nineteenth that his theories were put to practical use. True, there are evidences of successful subaqueous telegraphy as long ago as 1838, but it was 1851 before the cablegram became a public utility. In that year communication was definitely established between England and

France and the line then in operation is today practically intact, the gutta percha insulation having withstood the ction of the waters of the English channel. Other attempts soon followed, ulminating in 1858 in the building of the first transatlantic cable, in which Cyrus W. Field, one of the original projectors of the Pacific scheme, took prominent part. Today the cable lines in operation are long enough to girdle the earth eight times or reach wo-thirds of the distance to the moor And to these will soon be added the al American line across the Pacific. The dream of the late John W. Mackay will thus become the realization of his so Clarence. Clarence Mackay is not only an ex-

ceedingly clever business man, but has a sporting strain in his blood which has manifested itself in several ways. He is a skillful polo player and until his father's death was a devoted patron of inheritance of riches, the type of man expected.

THE CZAROWITZ IN AN OLD RUSSIAN COSTUME.

St. Petersburg society is still discussing the great court ball at which all the guests appeared in costumes beonging to that most interesting period in Russian history the reign of Peter the Great's father. Naturally special



attention was directed to the czarowitz, who appeared in the gorgeous uniform of a boyar of that day, and, as the illustration shows, made a very picturesque figure. Everything possible was done to keep up the illusion, even the rchestra being garbed in a dress which has not been worn in Russia for over 200 years.

DOG TRAINED TO PLAY PIANO. The accompanying illustration shows Turk, one of the cleverest trick dogs in the world, performing on the piano. Turk is owned by a Frenchman, who is planning to put him on exhibition in



this country. The piano trick is only one of Turk's many accomplishments, the turf. Altogether he is a healthy, among his noteworthy feats being the ambitious American, unspofied by the picking out of numbers and letters on pleces of cardboard. Turk has for some from whom great achievements may be expected. LEE M. HARBISON. time been the sensation of Paris. He is eight years old.





## Reading About Persons, Places Thinks Worth

## "AIR WAVE" TYPEWRITER THE LATEST.



An interesting sequel to the discovery of wireless telegraphy is found in the invention by Professor A. Kamm of an "Air Wave" typewriter, whereby messages written on one machine are transmitted by wireless telegraphy to describes as a bumpkin, yokel and lout another machine and are then printed directly on a tape. The machines are said to be so delicately adjusted that "interference" is impossible. Professor Kamm is a well known English engineer and member of the Royal institution. He has been working for years on various forms of electric typewriters and this Mr. Henley is not only a brilliant critic is undoubtedly his greatest success. The accompanying illustration shows the but a poet of merit and has published professor in his laboratory at work on the "Air Wave."

MONUMENT TO A DEBATE. The granite rock in Freeport, Ill shown in the accompanying illustration is known as the Lincoln and Douglas



rock and marks the spot where Lincoln and Douglas stood during one of their famous debates. The stone was brought

## AT HOME AND ABROAD.

United Kingdon

of twelve terms. The fees to university | island in the world. It has 1.360 people students are \$40. Three hundred and fifty square miles | states that out of \$10 parishes in Finis-Tariff was the name of a Moorish have been added to the British empire by the rectification of the frontier be tween India and Tibet. tere only five use French as the com-child of ten knows a word of French. present word tariff. Twelve per cent of all the deaths in Switzerland, which is supposed to be a paradise for people afflicted with con-The Church of England bishopric of In further Britiany 482,000 persons are The only British university degree the Mackenzie river in Canada covers totally ignorant of the French lan-an area five times the size of the grage. confined entirely to women is that of lady literate in arts-L. L. A. The de-

No member of Oxford university may give is given at St. Andrews, The bishop of Quimper, in Brittany, take his degree until after a residence | Malta is the most thickly populated | liquid for some time, and on suddenly

A FEROCIOUS LITERARY CRITIC. While William E. Henley is recogyears ago he aroused widespread indig. by succeeding Daniel Sully as leader of

## A NEW KING IN COTTON.

Nauling Guam End of Cable Ashere.

One of the most daring operators who

the bull contingent on the New York exchange. Mr. Brown is a member of the "self made" family. After leaving a country school he began life behind a counter in a small store, made some



WILLIAM P. BROWN.

A DARING AERONAUT.

knows little. The highest ascent

the Crystal palace just four years ago. Accompanied by Dr. Berson, the sci-

the occurants of the car were hearly

paradise for people afflicted with con-

Dr. Ludwig has melted carbon by

subjecting it to a pressure of 22,000

pounds to the square inch. He kept ft

sumption, are caused by that disease.

people to the square mile.

millionaire.

## WILLIAM ERNEST HENLEY.

nation by attacking Robert Louis Stevenson, and now he is to the fore in an assault upon Wordsworth, whom he in the treatment of meter. Wordsworthians are now busily engaged in defending the memory of their master several volumes.

CASTLE BOUGHT BY WILLIAM WALDORF ASTOR.

The famous Hever custle has just passed into the hands of an American.

#### SCHWAB TRAINING SCHOOL. Thanks to Charles M. Schwab the

nized as one of England's most able ever appeared in the cotton pit is Wil-literary critics, he is undoubtedly one of liam P. Brown of New Orleans, who have an opportunity to secure without the most ferocious of ink slingers. Two not long ago attracted great attention cost a course in a first class industrial



school which Mr. Schwab has estab lished at Homestead Manual training has long been a hobby with Mr. Schwab and seven years ago he fitted up a school in the basement of a building in Homestead. The eagerness with which the young people availed themselves of the opportunity thus offered impelled Mr. Schwab to construct the present fine school, which is a three story and attic building.

Coincident with the news that Apsley House, famous as the home of the Duke of Wellington, is to be placed on the market comes a report that it is likely this noted London dwelling will pass into the hands of a wealthy American. In the cut it is the dwelling with the four big pillars in front. It contains a wonderful picture gallery, wherein a banquet in honor of the battle of Waterloo was held annually until 1852. Englishmen have long nursed a species of veneration for Apsley House, recognized by a witty foreigner when he described the residence as No. 1, London.

AMERICAN MAY BUY HISTORIC LONDON HOUSE.

### A HUMAN BRIDGE IN SWAZILAND.



As the lliustration shows, the camera has caught a most interesting scene, Dr. Berson happly carried with him a tube of compressed oxygen fastened to the queen of Swaziland crossing a stream on a bridge composed of interlocked The castle is in Kent, and the purchaser is William Waldorf Astor: It was the car, and by inhaling this oxygen shields held up by her brawny bodyguard. Like most dusky monarchs the

to Freeport from Devil's Lake, Wis, by funds raised by the members of the Freeport Woman's club. the fordfied manor house. It is completely surrounded by a wide moat. the fordfied manor house. It is completely surrounded by a wide moat. the fordfied manor house. It is completely surrounded by a wide moat. the fordfied manor house. It is completely surrounded by a wide moat.

cooling it solidified in the form of a rent of all the houses and farms in the Browne, the air of London contains to the square mile. Barbados has 1,054 gray powder containing minute dia- kingdom. A ton of coke of suitable quality for

During the past ten years British imports exceeded exports by 46 per cent. Dorsetshire and Hereford, England, against thirty-six to thirty-eight bush-a speed of 52.8 miles an hour on her offire the counties with the highest ratio els of hard coal. of pauperism.

One year's drink bill of the United is increasing at the rate of 400,000 a rious companies in the United Kingdom Kingdom would nearly pay for the year. South African war or would pay the According to Sir James Crichton mous total of 162,007,811,487 cubic feet.

150,000 proportional parts of dust to 210,-000 in Paris.

domestic purposes runs about forty- The fastest torpedo boat destroyer in cial trial.

The population of England and Wales The amount of gas made by the vaamounted in the year 1901 to the enor-





YALE LAW SCHOOL'S NEW HEAD.

Professor Henry Wade Rogers, who

was recently appointed dean of the law

school at Yale, has been connected with