

MANY PROMINENT CITIZENS DECLARE WIRELESS TELEGRAPHY IS A NECESSITY

EARLY NEWS OF INCOMING VESSELS IS OF MATERIAL VALUE TO COMMERCE

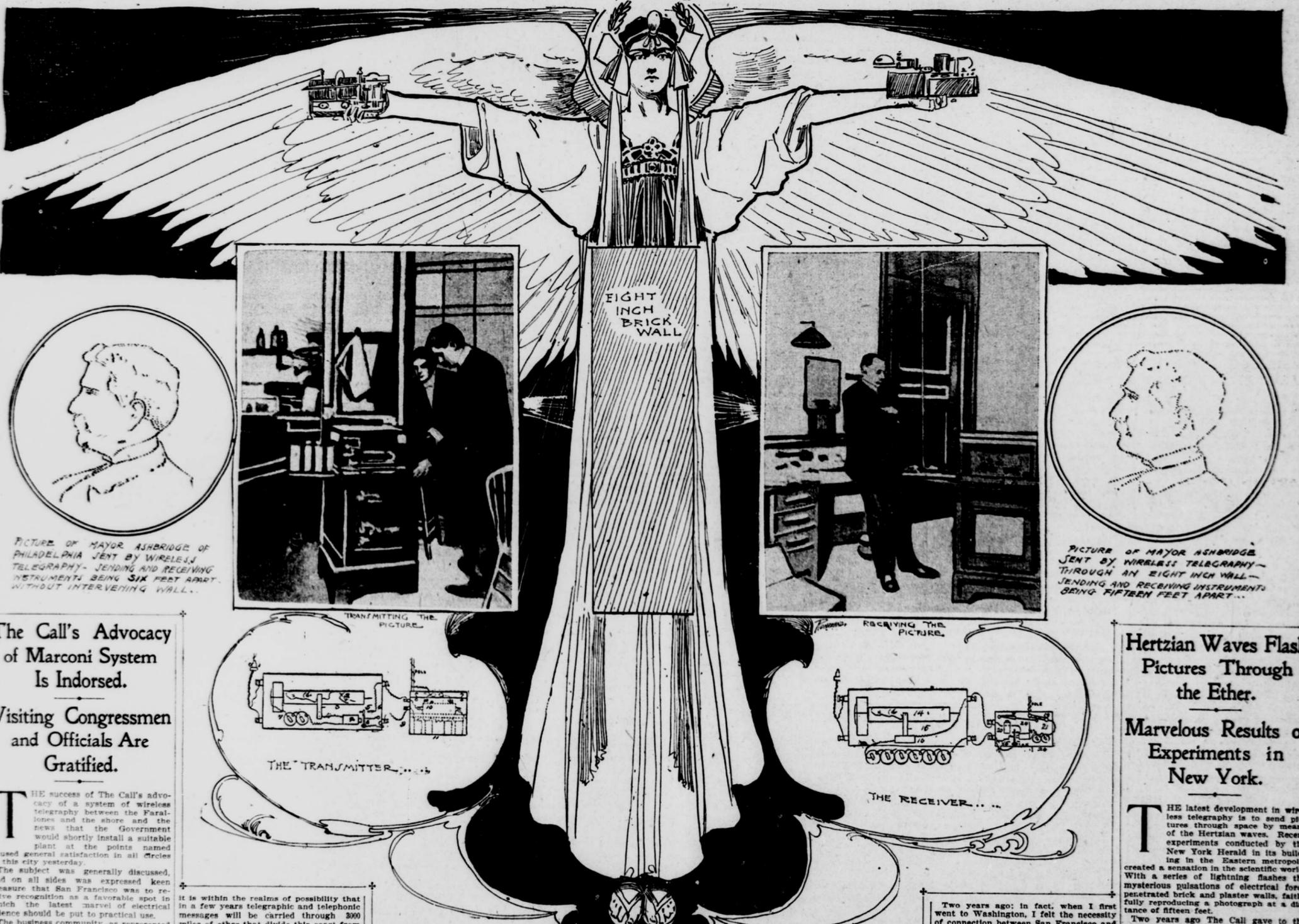
THE EFFORTS of The Call to secure a system of wireless telegraphy between San Francisco and the Farallones have been watched with great interest by the entire business community, and its success in that direction is a source of pleasure to every one interested in the subject.

For many years the Chamber of Commerce tried to secure a cable between the Farallones and the mainland. We live in the age of rapid transit and communication. The benefits that will accrue from the establishment of the wireless telegraphic system are numerous. Not only will incoming ships be reported, but warning can be sent to outgoing vessels in case of storm on land. Vessels in distress will be able to call for aid and important information can be secured by the Weather Bureau officials as to approaching changes in atmospheric conditions. The loss of the Rio is but one of many reasons for the establishment of rapid communication between the Farallones and the shore. If the Rio had been reported on the night she arrived at the Farallones tugs could have gone out and brought the passengers and mails into port, leaving the vessel to follow when the fog lifted.

It is important that the arrival of an incoming ocean vessel be reported as soon as possible. Merchants could make arrangements for receiving and forwarding freight and much valuable time would be saved. Insurance rates are very often affected by the non-arrival of a vessel on time. The necessity for a system of rapid communication between arriving ships and the shore is as vital as the problems of rapid transit and communication that have occupied the attention of the civilized world in the last fifty years. Time saved is money saved, and in the event of disaster aid sent to a vessel would mean the saving of life. Personally I wish to congratulate The Call on its success in securing rapid communication between the Farallones and this city.

June 23.

GEORGE A. NEWHALL, President San Francisco Chamber of Commerce.



PICTURE OF MAYOR ASHBIDGE OF PHILADELPHIA SENT BY WIRELESS TELEGRAPHY—SENDING AND RECEIVING INSTRUMENTS BEING SIX FEET APART WITHOUT INTERVENING WALL.

PICTURE OF MAYOR ASHBIDGE SENT BY WIRELESS TELEGRAPHY—THROUGH AN EIGHT INCH WALL—SENDING AND RECEIVING INSTRUMENTS BEING FIFTEEN FEET APART.

The Call's Advocacy of Marconi System Is Indorsed.

Visiting Congressmen and Officials Are Gratified.

THE success of The Call's advocacy of a system of wireless telegraphy between the Farallones and the shore and the news that the Government would shortly install a suitable plant at the points named caused general satisfaction in all circles in this city yesterday.

The subject was generally discussed, and on all sides was expressed keen pleasure that San Francisco was to receive recognition as a favorable spot in which the latest marvel of electrical science should be put to practical use.

The business community, as represented by presidents of various commercial organizations, hailed with delight the announcement that in the near future wireless telegraphy will be in operation between this coast and the Farallones, thirty miles from the shore. For many years the representatives of San Francisco in Congress have been urged to secure from the Government telegraphic communication between the Farallones and the mainland. The Chamber of Commerce has many times requested that a cable be laid on the ocean bed, but while many promises were made by officials in Washington nothing material resulted. Facts as to the urgent necessity of the cable were compiled and the cost was investigated, but beyond that point nothing was done.

With the invention of Marconi and the advocacy of wireless telegraphy by The Call it was realized by the commercial bodies of this city that it was but a question of time when the long desired communication with the Farallones would be secured.

SYSTEM IS IN USE AT THE PRESIDIO

The eyes of the country are now centered on the workings of the wireless system of telegraphy as carried on by the New York Herald at Nantucket lightship, but in a short time San Francisco will divide with the East the honor of demonstrating the practical utility of the mysterious Hertzian electrical pulsations carrying the ideas of man through space.

Already a system of wireless telegraphy is in operation at the Presidio. The greatest secrecy is maintained by army officers as to the workings of the plant, the rules of the service forbidding any publicity as to the use of apparatus.

With the installation of the most improved Marconi plant at the Farallones and the mainland the enormous possibilities of wireless telegraphy will be better understood. The much-discussed cable between the Pacific Coast and the Hawaiian Islands may not be required, and

it is within the realms of possibility that in a few years telegraphic and telephonic messages will be carried through 2000 miles of ether that divide this coast from the Paradise of the Pacific.

Three years ago the world marveled when Marconi flashed messages through space in conducting his experiments. In a spirit of envy and malice certain "yellow papers" sneered and scoffed when The Call set the pace by first using wireless telegraphy in gathering news.

But with marvelous strides wireless telegraphy has gone forward, until within the present month the Cunard steamship Lucanitta succeeded in sending messages 100 miles from sea to a land station. It is not improbable, therefore, that in a few years messages will be sent from this city to the Hawaiian Islands by means of the Marconi wireless telegraphic system.

A number of prominent citizens of this city were asked yesterday for their views on the establishment of a wireless system of telegraphy between the Farallones and San Francisco, as promised by Secretary of Agriculture Wilson. All were loud in their praise of The Call's efforts to secure the establishment of the plant, and declared that it would be of great value to the commerce of this city and State.

CONGRESSMEN GIVE VIEWS ON SUBJECT

The presence in San Francisco of the Congressional Committee on Rivers and Harbors presented the opportunity of securing the views of some of the committee-men. Those of the committee who were in the city yesterday consented to speak on the subject. Their statements follow:

CONGRESSMAN THOMAS A. BALL, TEXAS—Whenever the Marconi system of wireless telegraphy becomes perfected to the degree that its use will chronicle the arrival of ships, the benefits will be inestimable, particularly in such a port as this. The rocks in the entrance to San Francisco Bay would not be dangerous

- KEY TO TRANSMITTER OF TELEDIAGRAPH**
- 1.—Lamp socket supplying current to wind up motor in Hummel transmitter.
 - 2.—Revolving cylinder on which picture is drawn in shellac.
 - 3.—Spring contact finger.
 - 4.—Relay magnet.
 - 5.—Pivoted relay armature.
 - 6.—Relay contact.
 - 7.—Relay battery of two cells.
 - 8.—Relay spiral spring.
 - 9.—Wireless transmitter.
 - 10.—Induction coil.
 - 11.—Induction coil battery.
 - 12.—Oscillator spheres, between which sparks pass.

to navigation if it were not for your fogs. A method by which the arrival of ships could be reported from the Farallones would make it possible for precautions for the safety of the vessels to be taken. The Call is to be congratulated upon the part it has had in the effort to adapt this scientific discovery to commercial purposes.

CONGRESSMAN D. S. ALEXANDER, NEW YORK—I have no doubt that if the chief of the Weather Bureau has not already the power and ample funds to experiment with this utilization of wireless telegraphy in the interests of commerce and money if the matter comes properly before that body. The experiments which were carried on by The Call and the New York Herald, and subsequent experiments along the lines laid down by The Call would certainly justify the Government in taking up this experimentation and carrying it on. Wireless telegraphy has

SOME REMARKABLE EXPERIMENTS CONDUCTED BY THE NEW YORK HERALD.

come to stay, and is bound to be used along the lines opened up by The Call.

CONGRESSMAN PAGE MORRIS, MINNESOTA—The use of wireless telegraphy to report the sighting of ships at the Farallones would tend to prevent such accidents as the wreck of the Rio de Janeiro. The results would be most important to commerce. The idea is an excellent one. Upon a ship's being sighted and news sent in by this method a pilot-boat or tug could be sent out if the weather were thick, or other precautions taken for the vessel's safety. The Call has displayed true enterprise in demonstrating the utility of the Marconi system. It has shown itself wide awake in all methods pertaining to news gathering, and ready to expend effort and money for the benefit of the race.

CONGRESSMAN JAMES H. BANKHEAD, ALABAMA—The Call deserves great credit for taking the initiative experimentation in practical use of wireless telegraphy. As the system becomes perfected it will be found to be indispensable to commerce. I have no doubt that Congress will encourage rapid experimentation with the Marconi system.

SENATOR GEORGE C. PERKINS—

- KEY TO RECEIVER OF TELEDIAGRAPH**
- 13.—Lamp socket supplying current to wind up motor in Hummel's receiver.
 - 14.—Revolving cylinder on which paper is wound to receive picture.
 - 15.—Stylus for tracing picture.
 - 16.—Battery for stylus.
 - 17.—Magnet that pulls stylus down on paper whenever contact finger in transmitter passes over a line of picture.
 - 18.—Wireless receiver.
 - 19.—Coherer.
 - 20.—Magnet of vibrator.
 - 21.—Vibrator hammer which vibrates against the coherer.
 - 22.—Relay magnet.
 - 23.—Relay armature.
 - 24.—Relay contact.
 - 25.—Relay spring.
 - 26.—Relay battery.

am heartily in accord with the idea of connecting San Francisco with the Farallones by means of wireless telegraphy and I appreciate the efforts which The Call has made to have such a connection established. Connection of any kind with the Farallones is of almost inestimable importance and the value is increased in proportion to the shortness of time which elapses in the transmission of news between the islands and the shore. The only connection now is by means of sailing or steam vessel, which is slow and uncertain. A cable has been advocated, but the cable has not been laid. Besides, a cable would be expensive. An against wireless telegraphy it would be doubly expensive. It would be a superfluous, assuming that wireless telegraphy is a success, and I am satisfied that The Call has already demonstrated that it is a success.

Hertzian Waves Flash Pictures Through the Ether. Marvelous Results of Experiments in New York.

THE latest development in wireless telegraphy is to send pictures through space by means of the Hertzian waves. Recent experiments conducted by the New York Herald in its building in the Eastern metropolis created a sensation in the scientific world. With a series of lightning flashes the mysterious pulsations of electrical force penetrated brick and plaster walls, faithfully reproducing a photograph at a distance of fifteen feet.

Two years ago The Call gave to the people of San Francisco the details of the international yacht races within a few minutes after they had happened. This marvel of news gathering was due to the system of wireless telegraphy operated by the New York Herald between the scenes of the yacht races and its office in New York City and then sent to The Call's office here by direct wire.

The experiments conducted a few days ago to establish the possibility of sending pictures by wireless telegraphy renders it possible that when The Call gives the details of the forthcoming yacht races this fall by means of the wireless system of news gathering it will at the same time be able to present faithful reproductions of the movements of the yachts that will struggle for the America's cup.

PICTURES SENT BY TELEGRAPH

Two years ago pictures were telegraphed from New York to St. Louis by means of connecting wires, the instruments used being the invention of E. A. Hummel of St. Paul, Minn. From that time the invention has been regularly used in the transmission of pictures and sketches, but the possibility of sending pictures, except in connection with a regular telegraphic wire circuit, was not thought feasible until a few days ago.

The demonstrations of the utility of wireless telegraphy started by The Call when the Sherman arrived from Manila have been continued by the New York Herald, and its success in sending messages without wires by the Marconi system led to further experiments as to the possibility of flashing pictures through space by similar means. The Hummel telegraph and the Marconi instruments were used in the experiments made by the New York Herald last week, with the most gratifying results.

In a room in the Herald building the experiment was carried out. Brass jointed rods took the place of the tall

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