## Over Ocean Wave

An Electrician's Wonderful Invention

Great things are promised for the new century by G. Marconi, the author of wireless telegraphy, says the New York Press. Before the first Christmas in the 20th century he will, he declares, have England and America on speaking terms without the aid of submarine cables. One big pole erected at Southampton and another at Montauk Point will, he says, be all that is needed. The cables which now connect Europe with America will, if Marconi fulfills his promise, become as obsolete as the stage coach became when the railroad came in.

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The optimistic electrician is confident that he can establish telegraphic communication between the eastern and western worlds by his system at a hundred-thousandth part of the cost of laying a cable and maintaining it. Marconi says he has discovered a method of controlling the sound waves so that the messages from continent to continent will be flashed back and forth close to the surface of the ocean over the whole distance.

Heretofore the curvature of the earth has presented a dreaded difficulty to be overcome in the transmission of wireless messages over long distances. Marconi's new control of the sound waves, it is asserted, has obviated the difficulty. How it is done Marconi does not explain—that is his secret—but he says that he is confident he has found a method of doing it. He contends that the masts erected at Montauk Point and at Southampton need not be higher than a New York "sky-

which the United States owns.

Work of the Government.

In fact, the possibilities of the system, if Marconi keeps his promise, are almost infinite. The war department of the United States has been for some time experimenting with wireless telegraphy independent of Marconi, whose system, the officials thought, did not meet the requirements of the service. So successful has the signal corps been that now all the forts around New York are connected with each other by a wireless system, which is constantly being experimented with and improved. The weather bureau, also recognizing the advantages which would result to navigation by the establishment of a wireless electric communication between vessels at sea and exposed points on our lakes and sea coasts, and also between islands along the coasts and the mainland, has made a systematic investigation of the various systems of wireless telegraphy. The progress made has been eminently satisfactory. New appliances have been devised by the bureau experts for the transmission of signals and receiver have been constructed that are probably more delicate than any heretofors made. Messages have already been sent and received over 50 miles of land which presented a rough and hilly sur-

Honolulu to Manila it is about 4,000 miles. If that is too great a distance over which to operate the wireless system then a way station might be established on Wake island, a little piece of property something more than half way over to Manila from Hanwail, which the United States owns.

AN ITALIAN FABLE.

A poet obtained prodigious success; seated at his table, he indulged in the glorious idea of his triumph. This love of glory, common to all men, kindled in his heart a secret fire. The idea of the praises bestowed upon him made the blood circulate with violence through his veins; joy filled his entire being. His brain, stung with jealousy, thus addressed him: "You are indebted to me for your success. It was I who furnished the ideas which have gained you so much honor. Surely, without me you could not have written a single word."

The pen overhead this claim to exclusive praise, and, full of indignation, thus addressed the brain: "What vanity! Without me what could you have done with all your fine ideas and fine imaginations? It is to me he is indebted for them; to me who have committed them to paper."

The inkstand then put in its word: "Without me you could have written nothing. What could you have done had I not bathed you in my ink?" The poet, stunned by these clamors, which would tear from him all the glory that he had acquired, said to them: "I am equally obliged to you all; to you, my brain, for suggesting ideas; to you, my pen, who wrote them; and to you, my inkstand, who supplied the means to do so." Thus the dispute ended.

A few days later the poet published a new work; but its fate was the reverse of the former. Everybody turned their back upon him; some wrote satires, others made invectives against him. In a short time he became the laughng-stock of the world. The poet then complained of his brain for having suggested the nonsense. He few into a passion against the pen and inkstand for having contributed to put it to paper; but they all denied that any blame attached to them. The brain said he did not know how to choose among the ideas which it had suggested. The pen and inkstand reproached him for being a bad poet, alleging that they had done nothing but obey his will, and written only what he pleased. The poor, unfortunate poet had no other resource but to hold his tongue and weep over his disgra

had any share in the business, and all maintain that the fault was entirely his own.

A Dissertation Upon Winking.

No satisfactory determination has been made of the reason we wink. Some suppose that the descent and return of the lid over the eye serves to sweep or wash it off; others that covering of the eye glves it a rest from the labor of vision, if only for an inappreciable instant. This view borrows some force from the fact that the record of winking is considerably used by experimental physiologists to help measure the fatigue which the eye suffers. In another line of investigation Herr S. Garten has attempted to measure the length of time occupied by the different phases of a wink. He used a specially arranged photographic apparatus, and affixed a piece of white paper to the edge of the eyelid for a mark. He found that the lid descends quickly and rests a little at the bottom of its movement, after which it rises, but more slowly than it fell. The mean duration of the downward movement was from seventy-five to ninety-one thousandths of a second; the rest with the eye shut lasted varjously, the shortest durations being is fundredths of a second with one subject and seventeen hundredths with another; and the third phase of the wink, the rising of the lid, took seventeen hundredths of a second more, making the entire duration of the wink about forty hundredths with another; and the third phase of the wink, the rising of the lid, took seventeen hundredths of a second with one subject and seventeen hundredths of a second with one subject and seventeen hundredths of a second with one subject and seventeen hundredths of a second with given the third phase of the wink, the rising of the lide, took seventeen hundredths of a second with one subject and seventeen hundredths of a second with given the third phase of the wink the rising of the lide, took seventeen hundredths of a second more, making the entire duration of the wink about forty hundredths with another; and the third phase of the wink the rising of th

repairs on the great oceanic telegraph lines. Repairing a cable is a work of skill, science and money. A defect in the cable having been located by means known to the telegraph experts, the cable ship steams away to the part of the ocean where the difficulty is and drags for the cable with its grapping through the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the morning of July 13, and after a very hard day's fighting, the brunt of the day of the walls and without any hope of capturing the day here.

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A Missouri judge has hit upon an ective plan for getting tramps to leavown. He sentences all brought beforim to 30 days' work on the streets arives them half an hour to get the bols. That half hour sees them well obeir way.

tools. That half hour sees them well on their way.

STATE OF OHIO, CITY OF TOLEDO, 
LONG SOURTY,

FRANK J. CHENEY MAKES oath that he is the senior partner of the firm of F. J. CHENEY & CO., doing business in the City of Toledo, County the sum of ONE HUNDRED DOLL, HE for each and every case of CATARHH that cannot be cured by the use of HALL'S CATARHH CURE.

Sworn to before me and subscribed in my serior presence, this toth day of December, seath A. D. 1886. A. W. GLEASON HALL'S ALL A. D. 1886. A. W. GLEASON HALL'S ALL THE SEED OF THE SEED OF

E. W. Grove's signature is on each box. 20c.

Telephone Service in Paris,
Of course, they are a benighted set in Paris, but when it comes to telephone conveniences they are a trifle in advance of us. For instance, everyone who is a subscriber there is furnished with a ticket which entitles him to use any public telephone at any hour of the day or night and for as long a time as it suits his purpose. Every instrument is attached to a desk, has a metal circuit and is provided with a most convenient receiver and transmitter combined, which enables the user to sit in whatever position he prefers and to be free to write when necessary.—International Magazine. month.

Best For the Bowels.

No matter what alls you, headache to a cancer, you will never get well until your bowels are put right. Cascarers help nature, cure you without a gripe or pain, produce easy natural movements, cost you just 10 cents to start getting your health back. Cascaers Candy Cathartic, the ground of the production of the control of the control

During the year 1900 there were but the Unilted States and officially numbered by the Bureau of Navigation, 102 merchant vessels.

Frey's Vermifuge For Worms, he standard cure. 60 yrs. trial; no fail. The children's triend. 25c. Druggists.

## To Mothers of Large Families.

In this workaday world few women are so placed that physical exertion is not constantly demanded of them in their daily life.

Mrs. Pinkham makes a special appeal to mothers of large families whose work is never done, and many of whom suffer, and suffer for lack of intelligent aid.

To women, young or old, rich or poor, Mrs. Pinkham, of Lynn, Mass., extends her invitation of free advice. Oh, women! do not let your lives be sacrificed when a word from Mrs. Pinkham, at the first approach of



weakness, may fill your future years with healthy joy.

"When I began to take Lydia E. Pinkham's Vegetable Compound I was not able to do my housework. I suffered terribly at time of menstruation. Several doctors told me they could do nothing for me. Thanks to Mrs. Pinkham's advice and medicine I am now





SIOO DOLLARS PHILIPPINE REMEDY CO. 420 Penn Ave., Pittsburg, Pa

MILO B. STEVENS & CO., Estab. 1884. 3, 817—14th Street, WASHINGTON, D. C. anch offices: Chicago, Cleveland and Detroit.

P. N. U. 6, 1901.

NSUMPTION

Texas is comparatively a very sparsy cultivated State. In several counti-here are very few inhabitants. Bath here are very few inhabitants. Both county has but four residents, Cocker as 25, Anderson has 37, Lynn has ind Dawson has 36. Twenty-five oth ounties have populations of less the on each. Hard Coughs

Sheep growers find that the finer the sool the poorer is the skin for tanning urposes.

triposes.

The Herb Cure For Headsches.

Garfield Headache Powders represent thatest, most scientific and lest cure for head-ches; they are guaranteed to be free from all armful drugs; they cure quickly.

In New York 5,000 poolroom meddle. The reform crusade drove

To Cure a Cold in One Day.

Take Laxative Brono Quinine Tablets. All
drugglets refund the money if it fails to cure.
E. W. Grove's signature is on each box. 25c.

No matter how hard your cough is or how long you have had it, you want to get rid of it, of course. It is too risky to wait until you have consumption, for sometimes it's impossible to cure this disease, even with

## Ayer's Cherry Pectoral

If you are coughing today, don't wait until tomorrow, but get a bottle of our Cherry Pectoral at once and be relieved.

Three sizes: 25c., 50c., \$1.00.

If your druggist cannot supply you, send us one dollar and we will express a large bottle to you, all charges prepaid. Be sure you give us your nearest express office. Address, J. C. AYER CO., Lowell, Mass.

"TAKE THIS! My Bilious Friend," said the doctor, "it is the best laxative mineral water known to medical science." A glass of ETHYATITATIOS more for a disordered stomach or a torpid liver e pills in the world. IT CURES CONSTIPATION AND BILIOUSNESS. Average Dose: One-half glassful on getting up in morning.
Your druggist or grocer will get it for you.
Ask for the full name, "Hunyadi János." Blue label, red centre panel.
Imported by Firm of ANDREAS SAXLEHNER, 130 Fulton St., N. Y.



And a single anointing with CUTICURA, purest of emollients and greatest of skin cures. This is the purest, sweetest, most speedy, permanent, and economical treatment for torturing, disfiguring, itching, burning, bleeding, scaly, crusted, and pimply skin and scalp humors, rashes, irritations, and chafings, with loss of hair, of infants and children, and is sure to succeed when all other remedies fail.

Millions of Mothers Use Cuticura Soap

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snaper" in order to make the working of the system effective. He has in-vented a new appliance by which he says he can lengthen the air waves to an almost unlimited extent.

to an almost unlimited extent.

A Commercial Proposition.

If Mr. Marconi can fulfill his promises, what a revolution there will be in 'the commercial world! The millions invested in cables would become lost capital, for no one would use a cable at the rates charged for messages when for a fraction of the cost he could 'telegraph by the wireless system.

sages when for a fraction of the cost he could telegraph by the wireless system.

It not only costs millions to manufacture and lay cables across the Atlantic, but keeping them in repair costs hundreds of thousands of dollars. Cable ships are kept in commission all the time, and they find continually something to do in the way of repairs on the great oceanic telegraph lines. Repairing a cable is a work of skill, science and money. A defect in the cable having been located by means known to the telegraph experts, the cable ship steams away to the part of the ocean where the difficulty is and drags for the cable with its grappling froms. When finally the cable is picked up the repairs are made and it is again deposited upon the oczy bed of the sea. The linitiat expense and the cost of maintenance make it expensive to talk with Europe, but if does not cost much to erect two poles and buy a Marconi cutfit. It is obvious that if the great Italian keeps his promise the cost of talking with the old world will be trifling compared with what it is now.

California to Mania.

The United States is now preparing.

face—conditions most unfavorable to the transmission of electro-magnetic

waves.

From Sea to Shore.

Marconi also promises that before long ships at sea will be able by the use of his system to communicate with the shore. Navies are now experimenting with his system and considerable success has been obtained. Meantime in England they are trying to telegraph without the use of wire from Dover to Belgium. It looks as if in a short time a message might be sent around the world without the use of wires and that all the parts of the earth and the sea would be in telegraphic communication with each other. Deserts, mountains, oceans, time and space all seem to be dissolving before the advance of science. The world could not desire a better Christmas present for 1901 than the fulfillment of Marconi's promise.