

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.

Confidence in the Work.
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-

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 Hawaii, 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 receivers have been constructed that are probably more delicate than any heretofore made. Messages have already been sent and received over 50 miles of land which presented a rough and hilly sur-

AN ITALIAN FABLE.

About the Poet, the Brain, the Pen and the Inkstand.

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 overheard 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, stung 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 laughing-stock of the world. The poet then complained of his brain for having suggested the nonsense. He flew into a passion against the pen and inkstand for having contributed to it; 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 poet, unfortunately, had no other resource but to hold his tongue and weep over his disgrace in solitude.

Moral.

Such is the common fate of man. When an undertaking succeeds, all are anxious to claim a share in the event. But does it fail, everybody abandons him; nobody admits that he 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 gives it a rest from the labor of vision, if only for an appreciable 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 variously, the shortest durations being 15 hundredths 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, or four-tenths of a second. The interruption is not long enough to interfere with distinct vision. M. V. Henri says, in L'Année Psychologique, that different persons wink differently—some often, others rarely; some in groups of 10 or so at a time, when they rest a while; and others regularly, once only at a time. The movement is modified by the degree of attention. Periods of close interest, when we wink hardly at all, may be followed by a speedy making up for lost time by rapid winking when the tension is relieved—Appleton's Popular Science Monthly.

The Chacma Baboon.

Two officers escaping from Pretoria were about to cross a river, when they saw on the opposite bank a troop of baboons coming down to drink. They were so sensible of the danger of irritating these beasts, or of making the troop utter their barks and yelps of alarm, that they remained for two hours up to their necks in water until the troop retired. Some surprise was expressed that the officers should pay regard to "a troop of monkeys." Any one who shares this feeling may see at the Zoo, probably for the first time in 15 years, a full-grown male Chacma. A soldier writing home from the front described a locust as "something between a bird and a fly." This baboon is "something between a monkey and a bear." Its head, shoulders, tusks and muscles show immense strength, and its size is greater than the measurements given in a recent work on South African mammals. It is three feet eight inches long from the nose to the end of the body, and when it stands upright its head is four feet four inches from the ground. The baboons have maintained their place in South Africa against all enemies, including man, and are likely to do so for some years to come.—The London Spectator.

A 40-foot channel is to be dredged in New York harbor, and the work will be done by the two largest dredgers in existence.

A Missouri judge has hit upon an effective plan for getting tramps to leave town. He sentences all brought before him to 30 days' work on the streets and gives them half an hour to get their goods. That half hour sees them well on their way.

STATE OF OHIO, CITY OF TOLEDO, I. S.
LUCAS COUNTY.
FRANK J. CHENEY makes oath that he is the sole partner of the firm of F. J. CHENEY & CO., doing business in the City of Toledo, County and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of CATARRH cured by the use of HALL'S CATARRH CURE.

Sworn to before me and subscribed by me in presence, this 6th day of December, 1900.
J. L. A. D. 1888. A. W. NOLAN, Notary Public.

Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free. Sold by Druggists, F. J. CHENEY & CO., Toledo, O. Hall's Family Pills are the best.

Back taxes to a considerable amount have been collected in various parts of Iowa through the employment of "tax ferrets." In Polk county alone \$5,000 was dragged from delinquents in the month of December last, and twice that amount is expected to be realized this month.

Best For the Bowels.
No matter what ails you, headache to a cancer, you will never get well until your bowels are put right. CASCAETS help nature, cure you without a grip or pain, produce easy natural movements, cost you just 10 cents to start getting your health back. CASCAETS Candy Cathartic, the genuine, put up in metal boxes, every tablet has U.C.C. stamped on it. Beware of imitations.

During the year 1900 there were built in the United States and officially numbered by the Bureau of Navigation 1,102 merchant vessels.

For the Cure of Headaches.
Garfield Headache Powders commend themselves to all thinking people because of their freedom from harmful drugs—they are made from simple Herbs—and because they cure.

The interest bill of the city of New York amounted to more than \$13,600,000.

Frey's Vermifuge For Worms.
The standard cure, 60 yrs. trial, no failure. The children's friend. See Druggists.

The city of Grand Rapids, Mich., has expended nearly \$300,000 for improvements during the past year.

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 well, and can do the work for eight in the family.

"I would recommend Lydia E. Pinkham's Vegetable Compound to all mothers with large families." Mrs. CARRIE BELLEVILLE, Ludington, Mich.

For 14 Cents

We mail the following rare seed novelties:

- 1 pkg. Blue Blood Tomato Seed, \$.15
- 1 " Barbers Lemon Seed, " .15
- 1 " Mama's Favorite Onion Seed, " .15
- 1 " City Garden Best Seed, " .15
- 1 " The Healthy Seed, " .15
- 1 " L. N. Market Favorite Seed, " .15
- 1 " Golden Flower Seed, " .15

Worth \$1.00 for 14 Cents.

Write for these seeds, and we will mail you free, together with our great illustrated catalog, containing the names of all our seeds, and the names of the growers. Write to: JOHN A. SAUER SEED CO., Independence, Mo.

\$100 DOLLARS

Paid in Gold for a case of Catarrh we cannot cure with our Hall's Catarrh Killer Sulfur and B. of Tablets. Do not lose \$100.00. 8 copies and 100 of our best medicine. Price 1.00 for three weeks' treatment.

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420 Penn. Ave., Pittsburg, Pa.

PATENTS WITHOUT FEE

Send me a description of my invention, and I will advise you as to its patentability. I will also prepare a patent for you, if you desire. My office is at 515 Broadway, New York City.

MILOR STEVENS & CO.,
515 Broadway, New York City.

THE SET, \$1.25

Complete External and Internal Treatment for Every Humor, Consisting of CUTICURA SOAP (25c.), to cleanse the skin of crusts and scales and soften the thickened cuticle, CUTICURA OINTMENT (25c.), to instantly allay itching, inflammation, and irritation, and to soothe and heal, and CUTICURA RESOLVENT (50c.), to cool and cleanse the blood. A SINGLE SET, costing but \$1.25, is often sufficient to cure the most torturing, disgusting, and humiliating skin, scalp, and blood humors, with loss of hair, when all else fails. Sold throughout the world.

Texas is comparatively a very sparsely cultivated State. In several counties there are very few inhabitants. Bailey county has but four residents, Cockran has 25, Anderson has 37, Lynn has 17, and Dawson has 36. Twenty-five other counties have populations of less than 500 each.

Sheep growers find that the finer the wool the poorer is the skin for tanning purposes.

The Herb Cure For Headaches.
Garfield Headache Powders represent the latest, most scientific and best cure for headaches; they are guaranteed to be free from all harmful drugs; they cure quickly.

In New York 5,000 poolroom men are idle. The reform crusade drove them out of business.

To Cure a Cold in One Day.
Take LAXATIVE DRUGS QUININE TABLETS. All druggists refund the money if it fails to cure. E. W. GROVE'S signature is on each box. 25c.

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.

Hard Coughs

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 **Hunyadi János** will do more for a disordered stomach or a torpid liver than all the 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 center panel.

Imported by Firm of ANDREAS SAXLEHNER, 130 Fulton St., N. Y.

Sleep for Skin-Tortured Babies

And Rest for Tired Mothers



In a Warm Bath with Cuticura SOAP

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

Assisted by CUTICURA OINTMENT, the great skin cure, for preserving, purifying, and beautifying the skin of infants and children, for moles, freckles, and chafings, for cleansing the scalp of crusts, scales, and dandruff, and the stopping of falling hair, for softening, whitening, and healing red, rough, and sore hands, and for all the purposes of the toilet, bath, and nursery. Millions of Women use CUTICURA SOAP in the form of baths for annoying irritations, inflammations, and excoriations, for too free or offensive perspiration, in the form of washes for ulcerative weaknesses, and for many sensitive antiseptic purposes which readily suggest themselves to women, especially mothers. No amount of persuasion can induce us to give up our Cuticura Soap, for it is the purest and most effective of all skin cures, especially for preserving and purifying the skin, scalp, and hair of infants and children. CUTICURA SOAP combines delicate emollient properties derived from CUTICURA, the great skin cure, with the purest of cleansing ingredients and the most refreshing of flower odors. No other medicated soap is to be compared with it for preserving, purifying, and beautifying the skin, scalp, hair, and hands. No other foreign or domestic toilet soap, however expensive, is to be compared with it for all the purposes of the toilet, bath, and nursery. This is the purest and most effective of all skin cures, especially for preserving and purifying the skin, scalp, and hair of infants and children. CUTICURA SOAP combines delicate emollient properties derived from CUTICURA, the great skin cure, with the purest of cleansing ingredients and the most refreshing of flower odors. No other medicated soap is to be compared with it for preserving, purifying, and beautifying the skin, scalp, hair, and hands. No other foreign or domestic toilet soap, however expensive, is to be compared with it for all the purposes of the toilet, bath, and nursery.

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G. MARCONI.

scaper" in order to make the working of the system effective. He has invented a new appliance by which he says he can lengthen the air waves 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.

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 irons. When finally the cable is picked up the repairs are made and it is again deposited upon the oozy bed of the sea. The initial expense and the cost of maintenance make it expensive to talk with Europe, but it does not cost much to erect two poles and buy a Marconi outfit. 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 Manila.
The United States is now preparing to lay a cable across the Pacific ocean from the California coast to Manila. If Marconi can make his promise good of telegraphing without wire across the Atlantic then there would be no need for laying the cable. The wireless system could be used and all the tremendous cost of establishing cable communication obviated. The distance from Montauk to Southampton is over 8,000 miles. From San Francisco to Honolulu is only 2,600 miles. From

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.

Stood All Night in Water.

The allied column marched to the attack of the walled city of Tientsin on the morning of July 13, and after a very hard day's fighting, the brunt of which fell on the Japanese, the latter found themselves in the evening at a distance of about 200 yards from the walls and without any hope of capturing the place that night. Maj.-Gen. Fukushima then issued orders that the men were to hold their position, neither retiring nor advancing a yard. His belief, derived from his knowledge of the Chinese, was that after the losses they had suffered during the day they would probably abandon their posts under cover of darkness, provided that they did not detect any sign of retreat on the part of the assailants. The ground then held by the Japanese troops was almost wholly under water. Only a narrow causeway leading to the gate of the city stood above the level of the water, which covered the area on either side to a depth of some two feet. In that water the Japanese had to stand the whole night—and they stood.—Chicago News.

Unless you have faith in your ability you can never win a battle.