CUT OUT THE EAVESDROPPER

New Device is Expected to Eliminate "Listening in" on Wireless Messages.

Successful demonstrations of a new wireless invention, which marks a step toward the secrecy of wireless telephone and telegraph messages, have taken place in Great Britain, and Signor Marconi is at present conducting further tests at sea in his yacht Electra with a view to its wider application.

Details of the invention are secret, but it may be stated that, according to the Continental edition of the London Daily Mail, an apparatus has been devised which, by what experts call an "electrical method of concentration," propagates the electric wireless wave in a "beam" in any desired direction and in that direction only.

Hitherto the electrical waves sent out from wireless stations have spread out in all directions and all who "listened in" could hear. The new invention will mark the end of the wireless "eavesdropper." When it is perfected a wireless station will be able to send out Morse or spoken messages which will be heard only by those for whom they are intended.

The new apparatus which is being worked at an experiment station in Great Britain with a short wave length, has recently been demonstrated by a number of experts who expressed the greatest interest in the discovery.

It is known that German wireless research has been lately closely directed to this problem of the "eavesdropper," for the Germans realized that we were able to pick up with our listening sets much valuable information about Zeppelin movements during the war.

HOW DOLLAR WORKS FOR YOU

Benjamin Franklin's Fund of $5,000 Grew to $431,383 in One Hundred Years.

How the dollar invested works for the individual himself has been best illustrated by that first great American teacher of thrift, Benjamin Franklin. In 1791, he bequeathed £1,000 ($5,000) to the commonwealth of Massachusetts and to the city of Boston as a mark of his appreciation for having appointed him as agent in England at the "handsome" salary of £2,000 ($10,000) and to make his bequest really valuable with his great foresight, Franklin provided in his will that this £1,000 should be put out at 5 per cent interest for one hundred years; that at the end of that time 31-131 of the fund accumulated should again be put out at interest for another hundred years and then the fund be divided one-fourth to Boston and three-fourths to the state.

Let us show how well that £1,000 of Franklin's has worked. At the end of the first hundred years it had grown to $131,383.62. It was then divided in accordance with the will; $329,300.48 was set aside for "public work" and $102,083.14 was started on its course of earning interest for another hundred years. That was in 1891. January 1, 1918, this sum had grown to $267,866.15 and at this rate of increase the fund should amount to at least six million dollars when the second period is completed, and may be considerable more.—World's Work.

Title Fits the Duties.

The colored caretaker of a small town library dreamed the title of "Custodian," which he had embroidered on the front of his cap, a source of lasting pride. Having marked diplomatic ability, he deserved a foursyllable title. One morning while he was sweeping off the front walk a wandering loafer, also of African extraction, paused in front of him and scrutinized the cap closely.

"Cuss-tadian?" he ejaculated. "Down whah I come from they calls common niggers like you janitahs."

"Ye-es," observed the ebon-hued diplomat, pausing a moment from his labors, "dat's *all right* in Memphis But on a job like dis, 'custodian' is mo' appropriate. You see, you haf to cuss half de *patrons* and toady to de rest of 'em."—Judge.

Not All Blind.

Two charming sisters are engaged to two brothers, and their neighbors have been interested in this dual love affair. The young girls live in the second flat of a house on the south side of the street, and the other day the elder sister was stopped in the street by the young scion of the family who occupy the second flat in the house just opposite.

"Oh, Miss Nigger" said the boy, "my papa said last night that someone ought to tell you to pull down the blinds, 'cause if love is blind, the neighbors are not."—London Tit-Bits.

From Ear to Ear.

Willie was away from home for the first time, staying with some friends. He was allowed to "sit up" for dinner. The servant came round with a plate of slices of melon, and the hostess noticed Willie hesitate about helping himself. "Don't you like melon?" asked his hostess encouragingly. "Very much, thank you," replied Willie, "only they make your ears so wet."

On the Dry Bathing Beach.

Babel—That's a lovely bathing suit you're wearing. But aren't you afraid water will take the color out?

Joan—It might, so I always have it dry cleaned.—Detroit News.

PUSSY WILLOW SATIN GOWN

Taken from an old Chinese document in a museum is the design in wool that garnishes the neck, sleeves and skirt of this navy blue gown, which was shown at the recent style show in Chicago.

WOMEN WEAR BRIGHT COLORS

New French Shade, "Brique," Especially Smart When Used With Black Trimming.

It is distinctly a season of many colors and women of fashion have apparently got away from the notion that there is something barbarian in the wearing of bright hues, notes a fashion writer. There is really just as much opportunity to show good taste in wearing bright colors as bad taste. To be sure, if you have no color taste, then you are safe in keeping to dull or neutral hues.

Henna as such may be a back number, but there is the tone that the French call "brique" that is gaining increasing place in plans for autumn clothes. Especially smart is this "brique" when used with black trimming.

Many red shades are in favor and you will probably hear more of Venetian red as the season advances.

There is a fondness for combinations of light summer shades, especially in organdie or chiffon. Blue and pink, blue and yellow, certain shades of lavender with yellow or lavender with blue are all good. In some of the French evening frocks chiffon of three or four of the light pastel shades is caught together to form a shoulder ornament or a hip or skirt drapery.

Jade has been reported dead more than once, but it still seems to have enough life in it to reappear in some very interesting combinations with black or white. There are some striking black silks with jade green stripes, and some effective frocks have only just been brought out of jade green embroidered in white.

Gray, of course, is having things its own way in Paris. Often this is combined with pink in what might seem an insipid combination. Somehow it is used to appear very smart. Then it has been combined with trimming of black and red very effectively. This combination appeared once in a cloak of plain gray woollen material trimmed with other wool of black and red. Then again there was a costume consisting of a plaited gray silk skirt and a jacket made like a stout Chinese mandarin coat of rich red silk embroidered in black.

FROCK STYLES IN NEW YORK

Skirt Modes Include Fashions as Varied as Their Lengths—Ruffles and Plaitings.

Already, writes a New York fashion correspondent, Fifth avenue has taken on the appearance of fall and many a striking toilet is noted. One worn by a girl with nut-brown eyes and wavy brown hair was especially attractive. The skirt was made with four deep frills, while the surplice waist showed a gathered vestee of white organdie. The high band stock was of the duvetyn, while a plaited frill which flared out about her face was of the organdie.

The high stock with its wide frill was particularly smart and will be seen on many a street and afternoon dress this fall. The tier skirt is also very good; in fact, skirt modes are as varied as their lengths.

Some are cut with irregular hems, others show unusual draped effects, and in the dressier models that are made up in silks and other light weight fabrics there are ruffles and plaitings some times on the sides or back. In fact, such decorations are disposed of according to the whim of the designer.

HAMLET MODEL YOUNG MAN

Writer Declares That Melancholy Dane Was "Perfect Lady's Perfect Gentleman."

We are told in so many words that he was a model young man. He has presented the English language with two of its stereotyped phrases for the marking of a standardized perfection; he is called "the glass of fashion and the mold of form." The utterance of these words by Ophelia is as illuminative as the words themselves. It is plain that the youthful Hamlet lives up meticulously, not only to conventional, but to feminine, to maidenly, standards of propriety and excellence. He is the perfect lady's perfect gentleman, O. W. Firkins writes in the North American Review.

But we do not need Ophelia's testimony; listen to the young man himself. His mother urges him not to return to college. "I shall in all my best obey you, Madam," he replies with a filial decorum which Samuel Richardson or Hannah More could not have mended. Observe the nature of his objections to suicide:

> Oh, that the Everlasting had not fixed
> His canon 'gainst self-slaughter.

He condemns the act, not because it is cowardly or simply immoral, but because it is uncanonical, unscriptural. Here is a young man in whom his catechist or confessor may rejoice. With such a person it is obviously hazardous to joke. When Horatio, his fellow student, calls himself a truant, Hamlet solemnly defends him against the charge:

> I would not hear your enemy say so

Clearly this is a young collegian who never "vext the souls of deans." We see him assiduous at lectures, methodical in his notes. Shakespeare has not forgotten to inform us that he kept a note book. Within two minutes after his father's ghost has ended the appalling tale of the murder in the garden, the young prince is jotting down by moonlight an invaluable memorandum about the relations of smiles to villany. Do I mean that Hamlet is a fool? Not at all. Hamlet has a strong mind, but its strength is shown at the outset in the docility and thoroughness of its assent to the proposition of its teachers.

FIRST VENTURE OF LIPTON

Friend Tells How He Took Chance With Patrons of a Rundown Grocery.

Dr. J. H. Ostrander, a personal friend of Sir Thomas Lipton, told recently for the first time the story of Lipton's initial business venture, an exchange states.

Lipton's first business venture was an event in one little corner of Glasgow. He bought for a few pounds a sorry old rundown provision shop that had changed hands a score of times; everybody had failed. It was in a neighborhood where profits were meager and housewives close traders, and where sharp practice and indifferent ethics precluded credit. So when Lipton announced that he would trust any decent neighbor once all foresaw his doom.

Lipton, however, did not mean that he would carry accounts 30 days, for at this period five such accounts would have swamped him. As he himself put it: "In misfortune I will carry any decent chap till Saturday night. I will be a friend to you in spite of prevailing business rules; but if you break faith with me you will lose a friend and I will lose my business." Thus he put them on their honor. And it won; won because sympathy and fellowship dominated the boy and excited like attributes in others.

Of the Eye of a Frog.

The smallest camera in the world which has actually "taken" pictures is doubtless the eye of the frog, says Boys' Life. It has been found that if a frog is kept in the dark for some time the retina of the eye, on being dissected, is found to have a purple reddish color which fades away or becomes bleached on exposure to daylight. If the eye be placed in front of a window and left there, or "exposed" for some time, and then fixed in a 4 per cent solution of alum the optogram is partially fixed and retains an inverted picture of the window. It is claimed that by a similar photographic process the last picture or image retained by the eye of a dead man or animal may be preserved.

Natural Thermometer.

It was a wonderful sapphire, so it is said, that led the celebrated Doctor Sorby to the discovery of the nature of the liquid sometimes found inclosed in the cavities of crystals.

The gem in question contained a tube-shaped cavity, a quarter of an inch long and an eighteenth of an inch in diameter, which was so regular in its bore that it served, by means of the liquid partially filling it, for a thermometer. The contained liquid half filled the bore at 50 degrees F and completely filled it at 80 degrees. A study of the rate of expansion of the liquid led to the conclusion that it must be carbonic acid.

A Pious Man's Consolation.

Dr. Lyman P. Powell gives some examples of the lengths to which petty bitterness between sects will sometimes carry men. "A visitor in a certain town which had four churches and adequately supported none asked a pillar of one poor, dying church, 'How's your church getting on?' 'Not very well,' was the reply, 'but, thank the Lord, the others are not doing any better.'"—Christian Register.

How to Live

Common Sense Comments on Health, Happiness and Longevity

By GEORGE F. BUTLER, A. M., M. D.

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VACATIONS.

Take a vacation! When I think of all the good times there are in this world which you and I might be in if we only had the good sense to avail ourselves of our opportunities, I am inclined to think we are not to be commiserated so much after all if we fail to have our good time oftener. Don't think you haven't time to take a short vacation. You have. Don't wait for the opportunity to present itself, take the opportunity. If one sat on shore and waited for some trig little boat from off the sea to sail up to the strand, draw one into it by some method of affinity unknown to science and carry one off to Spain, don't you think one would grow gray-headed and wan before the voyage commenced? It is just as silly and just as hopeless to wait for some full-rigged opportunity to draw near and force you on board. Without some effort on your part you will never set sail. You will never go anywhere if you do not arise and go. Leave your work for a while; leave things undone if need be. Bother the duties! Shoo the obligations! Just you get up and go!

What one needs to be well and happy is out-of-door exercise—to get in touch with nature and forget oneself. The open air is not only a cure for the body, but for the mind as well. Nature is not only a fairy godmother, not only a revelation of beauty, but a guide and a teacher. We are told that Buddha went into the forest to look for truth. He left mankind and went to nature for help. And you will be helped spiritually and physically by going into God's sanatorium of out-of-doors.

All nature teems with joy and peace on summer days, seeming to laugh and chatter and whisper to us of health and happiness. There is motion in the ground. Each rill and trunk of tree and stem of flower and blade of grass feels the thrill of life. Health and energy are abroad in the land. And yet some of us are discontented and feel ourselves misused because we happen to be a little short of money now and then, and it is hard to find the plums in our pudding; or we are sick, or think we are, and are despondent and hopeless. These thoughts are only the transient reign of winter in the heart, and are due largely to the need of change—a vacation. Get out of doors! Rejoice with the trees, the flowers and the birds. It is an exhilarating, healthful and sublime uplift that they will give you if you will but go to them.

What has not quitting the crowded city for a change of air effected! How many has it not snatched from the jaws of death! How many has it not saved from sickness! How many consumptives, melancholy hypochondriacs and waning and harassed dyspeptics has it not restored to former healthfulness and joy. Go to Nature! It will strengthen your bodies, uplift your souls and help you to forget how tired and troubled you are. And the slips of health and contentment you will gather you should plant in the neglected garden of your soul. "Remember, it is not always youth time any more than it is always May; and grafts and shoots that grow readily in spring will take no root in bleak November. Cultivate your smiles and your simple services of love now and old age shall be but an afternoon trellis, hung deep with perfumed roses, as beautiful in the sunset glow as in the dawn." LEARN HOW TO LIVE.

* * *

The way of health lies through obedience to law, and the discernment of laws determining health lies in man's recognition of the fact that he is a complex being, a conscious spark of divinity embodied in matter and that no part of his nature can be neglected or ignored without making the whole man sick.

* * *

We are walking along the paths of a very beautiful world. It is a perpetual panorama, passing by us every day; and we shall add greatly to the happiness of life, and to the elevation and purification of all our faculties, if we acquire the habit of working for its beauties.

* * *

It is our duty to so order our habits with reference to the maintenance of a high degree of effectiveness, to so utilize all means, material and spiritual, which make for soundness, that we shall be up to the mark in physical health.

* * *

Some of us perhaps at the present day do not sufficiently appreciate the importance of leisure and securing opportunities for meditation. We make life too much of a rush and bustle; even our games we turn into a business.

* * *

In our moments of tete-a-tete with the infinite, how different life looks. How all that usually occupies and excites us becomes suddenly puerile, frivolous and vain.

* * *

We are strong only as we ally ourselves with Nature. We progress only by laying hold on the forces of the universe.

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