ELECTRICITY'S SHADOW.

Utilizing the Essence That Hangs About Telegraph Wires.

An Englishman, C. Langdon Davis, claims to have perfected an instrument, called the phonopore, by which the "induction current" on electric wires is utilized to carry messages, and the capacity of a telegraph or telephone line thereby increased. The induction current is the thing that makes the buzzing and crackling noise in the telephone and that slings fragments of what is passing on other wires into the middle of what you are trying to tell some one else over the line. It is a sort of faint essence of electricity that hangs about every electric wire, and is affected similarly, but in a lesser degree, by every thing that affects the current on the wires. Its strength varies with the intensity of the main current and the condition of the weather, but there is always enough of it to be a nuisance on long wires and when delicate work is desired.

The induction from a telegraph wire is so strong that it will overcome entirely the weaker current of a telephone wire near it on the same pole and make it impossible to transmit intelligible sounds over the latter when the former is in use at the same time. The English invention claims to harness this faint current to regular instruments and make it work independently of and simultaneously with the main current on the wire. The main feature of the invention appears to be the use at the receiving instrument of two wires insulated from each other, but each attached at one end to the main wire. The regular current can not communicate through these wires, because they are insulated from each other, but the induction current exists between them, in spite of the insulation, and any impulse communicated to the induction current at any station on the line is faithfully reflected by the induction current over these two wires at the receiving end. By delicate adjustments similar to those used in duplexing and quadruplexing ordinary wires, the impulses of the induction current are kept separate from those of the regular current, and will carry a separate message from that passing on the main wire.

It is claimed that it will be possible by the use of the phonopore to double the capacity of an ordinary telegraph wire working singly, by simply attaching the new instrument at each end. A duplex wire can be made quadruplex in a moment by the same operation, and a quadruplex wire setuplex or octuplex. The phonopore may be hitched on at way stations instead of at the end of the line, and works as well, and in perfect independence of the main current. It can be put on at a place where there is no regular instrument. Experiments now being made over English railroad lines are said to prove conclusively that the invention is capable of easy and profitable use in connection with existing telegraph systems.

It does not appear, however, that this new English invention is more than an improvement and perfection of the system of telegraphing from moving trains, which has been in use in this country on the Lehigh Valley railroad for some time, and is said to have proved to be practicable and useful. In both systems the induction from regular telegraph lines is used.—N. Y. Sun.

HOW TO SELL GOODS.

An Ability to Size Up Your Customer the First Essential.

"How to sell goods?" repeated a New York merchant after a reporter. "It depends upon the man. That is the whole secret. Like the old parody on Victor Hugo, 'if you want to be a good salesman you must educate your grandmother.' A good salesman is born, not made. In the first place you must be able to 'size up' your purchaser all through. If you tell a racy story to a church deacon, or if you offer a prohibitionist candidate for justice a drink out of your private bottle, or if you try to get the village freethinker to direct you to prayer meeting you will make an expensive mistake. You must, like St. Paul, be all things to all men, and, more than that, the right things to the right men. You can't sell to two men in the same way. You must attack each man differently. You must catch a man when he is not busy and when he is not tired. When you do go for a man, go for him horse, foot and dragoons. Don't give him a chance to get away from you, but hold on to him until you land him. You have got to know your own goods like you know your prayers to do this, and you have got to know what your competitors are doing, too. You must be prepared for every possible reception and for every possible and impossible objection, and suddenly you find you have sold a big bill, and you have to go over the thing slowly afterward to find out how you did it."—N. Y. Star.

Rivals of the Telephone.

Bell's telephone monopoly is confronted with two dangerous enemies. telautograph is one of these and Essick's typewriting telegraph the other. Gray's device transmits writing perfectly, and properly applied would take the place of the telephone, having the additional advantage of greater secrecy. The other device is not so well known. The system has been in operation between Washington and New York for some time, using one of the Postal Telegraph Company's wires. Its use on short circuits was proven practicable some time ago, but kept secret. Robbed of technicalities, the system is simply one by which a typewriter at one end of the line is made to transmit currents of various intensity which operate a typewriter at the other end.—Public Opinion.

TRUSTING TO LUCK.

A Will-o'-the-Wisp That Should be Exorcised Once and Forever.

There seems to be an increasing tendency in our day and generation to "trust to luck," and there would be many more serious disasters as a result of this bad practice were it not for the fact that science furnishes us with many valuable safeguards. The engineer in charge of an express train, rushing at lightning speed along the iron road in darkest night, amid warring elements or blinding fog, "trusts to luck;" he must make his run within a given time or disarrange the whole system, and, with hand on throttle, nerves strained to the utmost tension, and eyes vainly endeavoring to pierce the darknsss, he does his duty blindly, trusting that others are doing theirs, and takes chances as far as the unexpected is concerned. Unfortunately, it is the unexpected that often happens.

Another instance: Far out at sea, making a gallant fight against gloom and tempest, shrouded in blinding rain or driving snow, or blanketed with mist, a big steamship plows through the crested mountains of water. The lookout ahead, re-enforced for the occasion, the masthead watchman, the man on the bridge, can know nothing of what dangers may face them, and it is just possible that while trusting to their feeling of security another monster like their own may be bearing swiftly down on them, a sailing vessel may be nearing their track, or a lurking derelict drifting across their path. But they are expected in port on a certain day; their vessel has a reputation for speed upon which the prestige of a line is founded, so on they plunge, trusting to luck, until their trust is found to be vain.

The engineer in charge of a working steam plant often does too much "trusting to luck" for his own or other's safety. He knows his boiler is old or rotten, that seams leak, that sheets or tubes are corroded or burned beyond the point of safety, that he is carrying more steam than he should, that the water is low and feed water might prove dangerous, but he trusts to luck. His fires are made up, the pointer travels merrily round the steam-gauge dial, a few pounds more are put on the safety-valve, or the pump is started to feed, hoping that it will be all right. And so it may be, nine times out of ten. On the tenth "luck" changes, and the explosion, with all its harrowing details, goes on the record.

There is no such thing as luck in any of the above instances—nothing but a logical sequence of cause and effect. When the train strikes a misplaced switch, a washout or an obstruction there will be a smash-up; the first serious obstacle the ocean racer encounters is likely to transform it into a sorry wreck, if not to send it to the bottom, and the moment a boiler is exposed to an ounce more strain than its weakest part will support it gives way. The only trick worth trusting to is the result of unremitting care. It may be necessary for us to assume risks sometimes, but there is no such thing as "luck" about them, and the safe side is invariably the side to be on, even if it takes a little trouble to get there. It is the side on which we shall always find the prudent and really skillful man, whose experience impresses him with the dangers that attend recklessness. If the element of "luck" were eliminated there would not be half the disasters there are, and human misery would be greatly mitigated could we once and forever exorcise this will-o'-the wisp.—Safety Valve.

STARVING THE TEETH.

Something About the Proper Food for Building Bones and Molars.

Teeth are just as easily starved to death as the stomach. In one way it is a blessing to have been born of poor parents. What food the poor give their children is of the variety that goes to make strong bones and teeth. It is the outside of all the grains, of all cereal foods, that contains the carbonate and phosphate of lime and traces of other earthly salts which nourish the bony tissue and build the frame up.

If we do not furnish to the teeth of the young that pabulum they require, they can not possibly be built up. It is the outside of corn, oats, wheat, barley and the like, or the bran so-called, that we sift away and feed to the swine, that the teeth actually require for their proper nourishment. The wisdom of man has proven his folly, shown in every succeeding generation of teeth, which become more fragile and weak. These flouring mills are working destruction upon the teeth of every man, woman and child who partakes of their fine bolted flour. They sift out the carbonates and the phosphates of lime in order that they may provide that fine white flour which is proving a whitened sepulcher to teeth.

Oatmeal is one of the best foods for supplying the teeth with nourishment. It makes the dentine, cementum and enamel strong, flint-like and able to resist all forms of decay. If you have children, never allow any white bread upon your table. Bread made of whole wheat ground, not bolted, so that the bran which contains the minute quantities of lime is present, is best. To make a good, wholesome, nourishing bread, take two bowls of wheat meal and one bowl of white or bolted flour and make by the usual process. Nothing is superior to brown bread for bone and tooth building. This is made out of rye meal and corn meal. Baked beans, too, have a considerable supply of these lime salts, and should be on your table, hot or cold, three times a week. In brushing the teeth always brush up and down from the gum instead of across. Brush away from the gum and on the grinding surface of the teeth.—American Analyst.

PUNGENT PARAGRAPHS.

—A man without character is always making a fuss about having it vindicated.—N. O. Picayune.

—When an Indian dies his relatives pay his debts. And yet some people think Indians can be civilized.—Life.

—Some men "live and learn." Others devote their time exclusively to forgetting all that they ever knew.—Gloucester Advertiser.

—When an orator becomes a great gun in his own estimation he is apt to be a good deal of a smooth-bore in the estimation of others.—Harper's Bazar.

—Dandykin (who has tried on a new suit and found it satisfactory(: "Aw—excuse me; I'll just step ovaw to the bank and cash a check." His tailor: "Quite so; and if you'll excuse me I'll follow suit."

—One of the examination papers of a young miss in a city school contained the question: "Which zone produces the highest type of man?" In unmistakable characters the answer read: "The temperance zone."—Hartford Times.

—Miss Gusherly (young and stylish, rising from her seat)—"Won't you take my seat?" Miss Prudely (elderly and plain)—"But why should I deprive you of it?" Miss Gusherly—"O, I'll have a seat given me when you wouldn't, you know."

—Mrs. Grimes—"Johnny has been fighting again. He came home with his coat ripped up the back and a black eye. If you can stop his fighting I wish you would do it. I can't." Mr. G.—"I'll make a prize-fighter of that boy. If that doesn't stop him nothing will."—Chicago Herald.

—An Atchison paper says that most of the girls of that city are so beautiful that they would do for angels. This is taking rather a new view of the Kansas girl, and is not likely to any more than double her matrimonial chances. Women, and not angels, are wanted for wives in this world.—Exchange.

—"I say! You *have* improved that foot these last few weeks! I should go on drawing the human foot, and nothing else, if I were you, Brown—anyhow for another two or three years or so." "O, thanks, awfully! And then?" "Why *then* you might be a shoemaker, you know, and get an honest living!"—Punch.

—Miss Prime—"Philosophers disagree as to which period of life seems the longest to mankind. What is your opinion, Doctor?" Doctor (meditatively)—"Well, it varies. In women, for instance, the longest, generally, is between twenty-nine and thirty. I know in my wife's case ten years elapsed between her twenty-ninth and thirtieth birthday."—N. Y. Ledger.

—"Ah," sighed Jones, "I suppose these new explosives we read of are useful, but I have one which can blow up any number of men at once and immediately be ready for another attack. I would gladly dispose of it to any foreign government, the more distant the better. I refer, gentlemen," he explained to the interested crowd, "to my wife."—Time.

—"So you are at your old tricks, are you?" said a detective, as he arrested a three card monte man. "Yes; but it was necessity that drove me to it." "Necessity?" "I didn't have a dollar. I went to a church fair last night and got beat out of every cent I had in the world."—Merchant Traveler.

A LARGE PENDULUM.

Its Swinging Proves Beyond a Doubt That "the Earth Do Move."

The longest pendulum on this continent swings in the technological school at Atlanta, Ga. It is a heavy, pear-shaped piece of iron, attached to a brass wire forty-two feet long. The upper end of the wire is pivoted in a steel point, which rests on the centre of a steel plate, so as to cause the least possible friction. The swinging of the pendulum gradually describes a circle on the floor in a direction following the sun, showing in this that "the earth do move." Directly under the pendulum is a large circle divided into twenty-four parts, of fifteen degrees each, to correspond with the hours of the day. The north pole is placed directly under the penduium, and the meridians of longitude meet there. The parallels of latitude make smaller circles inside the first. Dr. J. S. Hopkins, president of the school, who made and put up the pendulum, performs the experiment as follows: The iron is brought to the edge of the circle in the meridian of Atlanta and let swing across. Apparently it goes straight across, but gradually it traverses the circle in the direction taken by the sun and opposite to the revolution of the earth. The pendulum, not being directly over the axis of the earth, does not move in exactly the same time as the sun, but falls behind some hours a day. It is said that if it were at the north pole, where it would be immediately over the axis, it would traverse the circle in exactly twenty-four hours, and at the the equator it would not traverse it at all, for gravity would operate to prevent.—Jeweler's Review.

Workers in the Vineyard.

Spokesman (at donation party)—Mr. Goodpastor, the principal donation of the evenin' hasn't arrived, owin' to some delay on the railroad. It's a piano for the parsonage.

Mr. Goodpastor (delighted) — A piano.

"Yes, an' it's a good one, too. We beg that you will receive it as an expression of our regard, and we only ask that, as a good many of the donators haven't pianos of their own, you will allow their darters to use the parsonage piano to practice on."—N. Y. Weekly.

Didn't Want the Job, Anyhow.

"John, wake up! I hear a noise in the kitchen. There's somebody in the house!"

(Jumping out of bed.) "Don't be afraid, Maria. I'll drive him out. Be calm, darling."

"Don't go down that steep stairway with your revolver cocked, John. It might go off before you are ready."

(Crawling back into bed.) "Mrs. Billus, if you haven't any confidence in my management of burglars you can take the revolver and go down yourself."—Chicago Tribune.

The Hostetter Stomach Bitter People Score Another Point.

In the United States Circuit Court for the Southern District of New York, Judge Shipman handed down an opinion a few days ago in the suit of the owners of the trade marks covering Hostetter's Stomach Bitters against Arnold Theller and Cornell Theller, the compounders located on Vesey street, New York City, in which it was decided that, although the defendants made use of their own names on the labels affixed to the bottles containing bitters prepared by them, yet as they were evidently designed to imitate the Hostetter labels, they were infringers, and a perpetual injunction was granted and an accounting of damages ordered, together with the costs of the suit. It is the evident intention of the Hostetter people to protect their valuable trade mark against all infringers.

A COMMON saying in England is: 'Happy is the corpse that rain falls on." This belief exists also in the United States. Thus, it is said that if rain falls at the time of the funeral, it is a sign that the dead has gone to Heaven

MISS MAXSE, a girl of sixteen, the daughter of Admiral Maxse of the English navy, was the first lady to ascend to the top of the Eiffel tower in Paris

LOUISA M. ALCOTT wrote the only hymn of her life, "My Kingdom," at thirteen years of age.

Distanced in the Race.

Why should Dr. Pierce's medicines not distance all competitors in amount of sales, as they are doing, since they are the only medicines sold by druggists possessed of such wonderful curative properties as to warrant their manufacturers in guaranteeing them to cure the diseases for which they are recommended. You get a cure or money paid for them returned. The Doctor's "Golden Medical Discovery" cures all diseases caused by derangement of the liver, as biliousness, indigestion or dyspepsia; also all blood, skin and scalp diseases, tetter, salt-rheum, scrofulous sores and swellings and kindred ailments.

Don't hawk, hawk, and blow, blow, disgusting every body, but use Dr. Sage's Catarrh Remedy and be cured.

"I SEE something in the paper about Emin Bey," said Mrs. Snaggs to her youngest. "I wish you would look it up in your geography and tell me exactly where it is."

A Veil of Mist

Rising at morning or evening from some lowland, often carries in its folds the seeds of malaria. Where malarial fever prevails no one is safe, unless protected by some efficient medicinal safeguard. Hostetter's Stomach Bitters is both a protection and a remedy. No person who inhabits, or sojourns in a miasmatic region or country, should omit to procure this fortifying agent, which is also the finest known remedy for dyspepsia, consumption, kidney trouble and rheumatism.

HON. Mrs. Maxwell-Scott, of Abbotsford, is preparing for the press some unpublished journals of her great-grandfather, Sir Walter Scott.

EXTRAORDINARY but nevertheless true. We refer to the announcement of B. F. Johnson & Co., of Richmond, Va., in which they propose to show working, and energetic men how to make from $75 to $250 a month above expenses.

CLOVES came to us from the Indies, and take their name from the Latin clauvus, meaning a nail, to which they have a resemblance.

WHEN an article has been sold for 24 years, in spite of competition and cheap imitations, it *must* have superior quality. Dobbins' Electric Soap has been constantly made and sold since 1865. *Ask your grocer.*

IT is the easiest thing in the world for the people of Vanity Fair to make fools of themselves.

HAVE no equal as a prompt and positive cure for sick headache, biliousness, constipation, pain in the side, and all liver troubles. Carter's Little Liver Pills. Try them.

THE woman who has the fewest number of "confidential friends" is always the happiest.

GLENN'S Sulphur Soap is a genuine remedy for Skin Diseases.
Hill's Hair and Whisker Dye, 50 cents.

BELFAST, Ireland, is the center of real linen making, as Dundee, in Scotland, is of hempen fabrication.

ST. JACOBS OIL
TRADE MARK
THE GREAT REMEDY FOR PAIN
For Stablemen and Stockmen.
CURES
Cuts, Swellings, Bruises, Sprains, Galls, Strains, Lameness, Stiffness, Cracked Heels, Scratches, Contractions, Flesh Wounds, Stringhalt, Sore-Throat, Distemper, Colic, Whitlow, Poll Evil, Fistula, Tumors, Splints, Ringbones and Spavin in its early Stages. Directions with each bottle.
AT DRUGGISTS AND DEALERS.
THE CHARLES A. VOGELER CO., Baltimore, Md.

S. S. S.
THE WORLD OUGHT TO KNOW IT.
The world ought to know what S. S. S. has done for me in the cure of a malignant Cancer, which was so bad as to be considered incurable by the physicians in Chicago, where I went to be treated. One of my neighbors sent me a copy of an advertisement in regard to Swift's Specific, and I began taking it. I got relief from the first few doses; the poison was gradually forced out of my system, and I was soon cured sound and well. It is now ten months since I quit taking S. S. S. and I have had no sign of return of the dreadful disease.
MRS. ANN BOTHWELL.
Au Sable, Mich., Dec. 29, '88.
Send for books on Blood Diseases and Cancers, mailed free. THE SWIFT SPECIFIC CO. Drawer 3, Atlanta, Ga.

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Do not purge nor weaken the bowels, but act specially on the liver and bile. A perfect liver corrector. Carter's Little Liver Pills.

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Vigor and Vitality are quickly given to every part of the body by Hood's Sarsaparilla. That tired feeling is entirely overcome, the blood is purified, enriched, and vitalized, the stomach is toned and strengthened, the appetite restored. Try Hood's Sarsaparilla now.

AN EASTERN TALE.

A king once summoned his three sons,
And thus addressed the anxious ones:
"Go forth, my sons, through all the earth
And search for articles of worth;
Then he who brings the choicest thing,
Shall in my stead be crowned as king."

In one year's time again they meet,
And kneel before the sovereign's feet:
And as with gracious outstretched hand,
He welcomed home the youthful band,
He natural eagerness expressed,
To see the objects of their quest.
The first such lustrous pearls displays,
That every tongue is loud in praise.
So white, the snow-flakes on their way
Compared to them are dull and gray.
The next a diamond more pure,
And larger than the Koh-i-noor,
That shone with such a brilliant light,
The sunbeams, shamed, withdrew from sight.

'Twas hard to choose between the two,
The monarch knew not what to do.
The third is standing calmly there;
Now, with a half triumphant air
And smile of confidence and hope,
He shows a cake of Ivory Soap,
So peerless in its purity,
That dirt, alarmed, takes wings to fly.
The old king, as it meets his sight,
Grasps it, and cries in wild delight:
"No more confusion or dismay,
No more cold meals on washing day.
Subjects! my youngest son obey,
The Ivory Soap has won the day."

A WORD OF WARNING.

There are many white soaps, each represented to be "just as good as the 'Ivory';" they ARE NOT, but like all counterfeits, lack the peculiar and remarkable qualities of the genuine. Ask for "Ivory" Soap and insist upon getting it.

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Is absolutely pure and it is soluble.
No Chemicals
are used in its preparation. It has more than three times the strength of Cocoa mixed with Starch, Arrowroot or Sugar, and is therefore far more economical, costing less than one cent a cup. It is delicious, nourishing, strengthening, EASILY DIGESTED, and admirably adapted for invalids as well as for persons in health.
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GREGORY'S CHECKERS SOLITAIRE A splendid study for Checker Players. The game consists in making 16 men change sides by jumping each other without moving one from the board or moving backwards. *A Handsome Prize*—ONE HUNDRED PORTRAITS—given to those sending 20 correct answers out of a possible 32. The game complete, with Key—"How to do it," mailed for 20 cents, by FRANCIS GREGORY, 44 Broadway, NEW YORK. IT IS MORE EXCITING THAN THE FAMOUS "15" PUZZLE.
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