

LAYING THE WORLD'S CABLES

NEARLY ALL THE 1,050 OWNED BY ENGLISH CAPITALISTS.

This Informative Article Briefly Tells the Wonderful Story of a Cable Ship's Cruise.

When we reflect that the world is served by no less than 1,050 distinct telegraph cables, sunk beneath the waters, costing \$600,000,000, and that nearly the whole were made in London and belong to English capitalists, it may be worth while to consider for a moment the operations involved. First, the route of the proposed cable must be determined. In most cases this can easily be done by reference to the existing charts. If, however, no reliable charts of the region exist, a special surveying expedition is sent out to determine a path for the cable.

The object is to secure, at the least possible depth below the surface, a fairly level platform, free from ridges, which might chafe and cut the cable; and from hollows or ravines, across which the cable might not be able to support its own weight. At the same time, it is of the utmost importance to have the cable route as short as possible, for every extra mile means an expense in round numbers of \$1,000.

Making the Cable.

Then the cable has to be made. This is a very long business. First there are the copper wires—forming the conductor of electricity—which are covered with four distinct coatings of gutta-percha. Over this are wound two layers of tape—sometimes metallic tape is used where attacks from insects are feared. Then come two layers of Russian hemp. After this comes a covering of steel wire. And over all there are two coatings of very strong canvas ribbon, coated with a mixture of pitch and gutta-percha. The average rate of cable-laying is three miles a day from each set of machines, or, say twenty miles a day from the whole factory. The cable near the shore is protected by additional thicknesses of steel wire to prevent injury from anchors, etc.

As fast as the cable is made it is coiled down in immense tanks of water and tested continually to see if its electrical condition is perfect. When complete the cable is coiled away on board the ship that is to lay it in its ocean bed.

Cable ships are twin-screw steamers of very great size, with their holds occupied by immense circular tanks. A very large number of men are carried—fishermen and the like—at low rates of pay, for the rough, heavy work; while for the electrical and navigating work a large staff of highly-paid officers are carried.

All being ready, the cable ship proceeds to the point where the laying of the cable is to begin. The shore end is landed, spliced on to the deep sea portion, and connected up to a set of instruments in a hut on the shore. Part of the electrical staff is left in this hut, and a series of signals is passed to and fro between the ship and the hut all the time that the cable is being paid out. As the cable often is two thousand miles long, it may be imagined what unrelenting attention is necessary on the part of the electricians.

Landing the Shore-Ends. Meanwhile the ship is steadily proceeding onward to her destination at the rate of five miles an hour. It is not possible to go faster, or else it would endanger the lives of the men in the cable tanks, who are handling the cable and seeing that it runs out freely. The work of course proceeds night and day. Meanwhile the electricians take their turns of testing the electrical qualities of the cable, and exchanging signals with those on the shore.

At last the farther shore is reached, and the second shore end spliced on and landed.

Landing these shore-ends is very disagreeable work. It may be that one has to strip and wade up to one's neck in water infested with sharks while carrying or dragging the heavy cables ashore.

The Knightships For Atlantic Airmen. The "Daily Chronicle" says:—"Captain Alcock and Lieut. Brown, in becoming Knights take their appropriate rank with Drake and Hawkins and Raleigh, our typical pioneers in navigation and exploration. If Columbus, their predecessor, had taken the precaution to be born a Briton he would have been of the company too. For it can be said that our rulers have ever been conquerors of peace, and, as we must know, of time. The new knightships have a traditional and historic significance which distinguishes them from familiar lists of such honors and revives the pristine dignity of the rank."

Blind Massage in Japan. In Japan massage treatment is administered almost entirely by blind persons. The reason is because in the blind the sense of touch is more delicate than in persons blessed with sight.

As a rule, birds do not fly at a greater height than 1,000 feet. Eagles have been known to fly to a height of 1,000 feet. A lark will rise to the same height and so will crows.



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Now is the time for the best bargain. Buy now and save money. We have hundreds of road bicycles at prices ranging from \$10.00 to \$25.00. Write or call for particulars. R. G. McLeod, 175 King St. West, Toronto.

TRICKS OF TROPICAL PLANTS.

Orchid Lets Down a Tube For a Drink; Fungus Throws Ball.

That plants eat and drink in their own way through the soil is a well known fact. But in South America is a species of orchid which takes a drink whenever it feels thirsty simply by letting down a tube into the water. When not in use, the tube is coiled up on the top of the plant.

In Mexico there is a plant that likes to change its attire three times a day just like any fastidious person—it is white in the morning, red at noon and blue in the evening. At times it gives out a very strong perfume and at other times it is absolutely odorless. There is another odd Mexican plant the odor of which causes people to lose their way and makes their sense of direction all until the smell ceases.

Central India owns a tree whose leaves are heavily charged with electricity and merely to touch them gives a person a distinct shock. In Brazil similar electric power is put to light-house purposes. Within the immediate vicinity of such a plant, a person can see well enough to read the finest print and another is so luminous that it can be plainly distinguished in the darkest nights for a distance of more than a mile.

But the most wonderfully constituted plant of Brazil is the ball-throwing one. It is a small fungus about the size of a pea which projects a ball to a distance of several inches with a distinctly audible report.

Legless Men Live Longest.

A man who has lost a leg is likely to live longer than if he had not lost it, and a man who has lost two legs is likely to live longer still. This remarkable statement was made by Col. Openshaw, M.D., at the opening of a hospital for the limbless in London. The heart has to pump the blood into the extremities and back again, so that if the legs are taken away the heart is relieved of a great strain and, other things being equal, will continue to work longer.

And Col. Openshaw added that a legless man could be a better swimmer than before his loss.

Mrs. A.—"Josephine is progressing by leaps and bounds in her piano practice." Mr. A.—"I thought she couldn't make all that racket with her hands alone."

Saved by a Hatch Cover

Among the crew of the Polgat, a ship that foundered off Malabon, in the Philippines, was a half-breed sailor named Alejandro Lorenzo. In the moment of the ship's sinking he was agile enough, and lucky enough, to leap clear of the wreck and escape the deadly suction of the disappearing vessel. He was alive and uninjured, but he was many miles from shore and there was no help in sight.

After swimming an hour he found a hatch cover on which he rested. Then pushing the hatch cover ahead of him he started for San Nicolas. He was just reaching shallow water when the tide carried him out to sea again.

As night came on the wind increased and the waves tossed him and his hatch cover back and forth till he was almost exhausted, but toward midnight he found that he was being washed toward the Cavite shore. For several hours he drifted in, but just as his hope grew from the tide and the wind swept him in spite of his struggles once more out to sea.

Something brushed against his leg. He thought that it was a shark and screamed in fear. "It did not touch me, or I should have gone mad," he said. The water was cold, the night was dark and the rain beat down on him. He heard a cry in the darkness and pushed his hatch cover in the direction whence the sound came. He found a Filipino boy, another survivor of the wreck, clinging to an oil can. They drifted together.

When daylight came they could see boats, but could not make themselves heard or seen. They were tortured by thirst, salt water got into their mouths, they drifted all day.

Night came again. Soon after dark they saw the lights of a breakwater and with new hope noticed that the lights grew larger and more distinct. They were being washed toward the shore. But the boy could not hold out. Taken with cramps, he lost his hold on the oil can and went down. The man was washed into the middle of the bay and drifted all night.

At dawn he was almost ready to give up, but the wind and waves headed him for the shore and he took heart. Then he saw boats and used his last strength in trying to reach them. The boatmen saw him, were able to get to him in time and picked him out of the water. There was not much of the man left and, shrieking for water, he collapsed in the bottom of the boat.

As he lay on a pallet, after he found himself able to talk again, his rescuers spoke of his wonderful endurance. Alejandro in reply said that, of course, he had done the best he could. He wanted to live, he said.

POWER OF THE FUTURE.

This Writer is Convinced That the Atom Contains Source of Energy.

Some people will tell you that the coal age is passing, and that we are now entering upon the age of oil.

All nonsense! There will be coal left when the last oil well has sucked dry. But coal won't last forever.

The power of the future, the source of all the energy that we can possibly require, will be found in the disintegration of the atom.

Atom means a thing that can't be cut. But radium has taught us that atoms break up of themselves. If we can once learn how this is done, and do it ourselves, we have a source of power so amazing that it fairly makes one gasp to try and realize it.

It is, however, a known fact that the disintegration of one pound of matter—say lead—will give as much power as will the burning of over four thousand tons of coal.

Once the trick is done, we shall be able to bring a year's fuel home in a wastecap pocket. Instead of a stove, you will have a small machine called a disintegrator. Once a year you will feed it with an ounce of lead, then for twelve months your house will be warm.

A pigeon coos without opening its bill.



FOREST PROTECTION.
Fire rangers packing wire for the telephone patrol in the Columbia Valley, British Columbia.

DELICATE YOUNG GIRLS

Need New Red Blood to Give Them Health and Strength.

Does your daughter inherit a delicate organization from you? The anemia of young girls may be inherited, or it may be caused by bad air, unsuitable food, hasty and irregular eating, insufficient out-of-door exercise and not enough rest and sleep.

It comes on gradually, beginning with languor, indisposition to mental or bodily exertion, irritability and a feeling of fatigue. Later comes palpitation of the heart, headache, dizziness, frequent headaches and breathlessness. In a majority of cases constipation is present. There may be no great loss of flesh, but usually the complexion taken on a greenish-yellow pallor.

Cases of this kind, if neglected, become serious, but if taken in time there is no need to worry. The treatment is quite easy and simple. Dr. Williams' Pink Pills, which are free from any harmful or habit-forming drug, are just the tonic needed to remedy this wretched state of health. Through it is not noticeable, improvement actually begins with the first dose. As the blood is made rich and red, the pallor leaves the face, strength and activity gradually return and if the treatment is continued until the last symptom disappears, the danger of a relapse is very slight.

If any symptom of anemia appears, prudence suggests that Dr. Williams' Pink Pills should be given at once, and the sooner they are taken the more speedily will the trouble be overcome. You can get these pills through any dealer in medicine, or by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

Use W.S.S. for systematic saving. Some 26 a week and perquisites are being offered to Irish laborers to work on English and Scottish farms.

SUMMER HEAT HARD ON BABY

No season of the year is so dangerous to the life of little ones as the summer. The excessive heat throws the little stomach out of order so quickly that unless prompt aid is at hand the baby may be beyond all human help before the mother realizes he is ill. Summer is the season when diarrhoea, cholera infantum, dysentery and colic are most prevalent. Any one of these troubles may prove deadly if not promptly treated. During the summer the mother's best friend is Baby's Own Tablets. They regulate the bowels, sweeten the stomach and keep baby healthy. The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

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WEAVERS WANTED

Male or Female

Experienced on Woolens and Worsted.

Good pay and steady employment, under ideal working conditions.

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HISTORIC FURNITURE IN PALATIAL HOTEL

Champlain, Jacques Cartier and Montcalm, three of the heroic figures in the early settlement of North America along the St. Lawrence River have been happily united in a suite of rooms which have been named after them at the famous Chateau Frontenac, in Quebec. This suite is in the baronial tower which forms one of the most noticeable landmarks in the ancient city, and commands a wonderful panorama of the great river and of the blue Laurentian Mountains.

The central room, named after Montcalm and used as the sitting room, has among other curious furniture of two hundred years ago, a table and chair of rough design made by soldiers who served under General Montcalm in the Siege of Quebec in 1759, and actually used by the General up to the date of his last fatal battle with the troops of General Wolfe. The writing desk in the same room was formerly an altar in the old Ursuline Chapel, while the antique Grandfather's Clock used to figure out the hours and minutes in the Old Jesuit School. The habitants, or peasant proprietors of French Canada, are famous for their skill in handicraft, particularly weaving. The floor-covering used in these rooms is a specimen of this habitation handicraft, known as "catalogue," a washable material of fast dyes.

The two adjoining rooms, one on each side, are used as bedrooms, and except for the private bathrooms which have been built in to meet with the requirements of modern habit, are faithful replicas of rooms in the seigniorial Chateau of Old French Canada. The four poster beds, chairs, fire irons, crockery and charcoal burners are actual antiques. Here can be seen the old warming pan of the pre-railroad days and the old pipe lighters of the days before matches were invented. The old fashioned open hearth with its bellows standing by and the family kettle give their welcome and tell their tale of hospitable bygone days. On the walls hang old prints and priceless tapestries.

ELECTRICITY IN THE HOUSE.

Picture of the Day When Current Will Do All the Hard Work.

A writer on agricultural subjects recently predicted that a day would come when the farmer's wife on awakening in the morning would touch a button and breakfast would thereafter be prepared without further personal attention. The time seems to be here. At the latest electrical shows the accomplished fact is witnessed. The demonstration shows how a family can go out to spend a day, to return at 6 p.m. in time for dinner. Uncooked food is placed in the electric range, and a clock attached is set to start the cooking at 4 in the afternoon, to be completed an hour later. The clock of itself regulates the current, turning it off at the time desired, but leaving enough heat to keep the food warm. If the family is delayed the meal is still ready for the table. It is simple and also dependable. When it is called simple, due consideration must be given to the ingenuity of the machinery employed, including the clock, whose performance is so familiar that its mechanism, perfected step by step through the centuries, is seldom given a thought.

Electric appliances for the household are just getting a start. Their evolution is rapid as well as strikingly useful and interesting. Light, heat and power—what a broad foundation for new utilities in the home as well as in all forms of industry! Generated by the water power available in all parts of Canada, electricity ought to be cheap enough to be freely used by everybody.

On the farms drudgery is happily a word going out of fashion.

Minard's Liniment Cures Colds, Etc.

The famous King Charles statue in Whitehall, London, was protected from air raid danger at a cost of \$450.

SINCE 1870

SHILOH

30 BROKE COUGHS



BITS OF HUMOR

FROM HERE & THERE

The Proper Treatment.

"I have a terrible cold," he complained. "My head feels all stopped up."

"Have you tried a vacuum cleaner?" she queried sweetly.

Seat of Trouble.

He (after his wife has had a visit from the doctor)—"But why are you so angry with him?"

She—"When I explained how I had such a terrible tired feeling he told me to show him my tongue."

Not to be Fooled.

Mrs. Subbubs—I told Bridget to string the beans this morning.

Subbubs—Yes, Well?

Mrs. Subbubs—Well, she flared up and told me I couldn't string her; that we'd eat them loose or not at all.

Those Foolish Questions.

Mr. Brown was digging in his front garden. Presently a friend passed by.

"Hallo, Brown!" he cried, cheerily.

"Gardening?"

"No!" said Brown, emphatically. "I am not. I'm sitting on the roof teaching the sparrows to sit up and beg. What are you doing? Having a bath?"

A Family Secret.

"I bet I know what makes sister wear her hair bunched down over her ears," said the small boy.

"Do you?" replied the affable young man.

"Yes. But I ain't goin' to tell. Only if my ears were as big as sister's I'd do something like that myself."

One For John.

"What is your name?" asked the mistress of her new Chinese cook.

"My name is Wang Hung Ko."

"O dear, I shall not be able to remember that. I shall just call you John," remarked the lady.

"Velly good, ma'am," said the Chinaman. "And what is your name, ma'am?"

"My name is Mrs. Swanton de Vere."

"No no remember that," said the Chinaman; "we callie you Sally."

Plant Freesias Now.

Freesias potted as soon as the bulbs can be obtained will give beautiful, sweet scented flowers during the winter, a season when flowers are scarce. Many amateur gardeners who have not tried freesias do not realize what attractive pots of flowers they make and how easily they are grown.

"Marriage may be likened to a tramcar," said the confirmed bachelor.

"Why?" asked his fair partner. "Because some people are just as anxious to get out of it as others are to enter."

With the Fingers!

Says Corns Lift Out

Without Any Pain

Soft corns, hard corns, soft corns or any kind of a corn can shortly be lifted right up with the fingers if you will apply directly upon the corn a few drops of Freesia, says a Cincinnati authority.

It is claimed that at small cost one can get a quart of an ounce of Freesia at any drug store, which is sufficient to rid one's feet of every corn or callus without pain or soreness or the danger of infection.

This new drug is an ether compound, and while sticky, dries the moment it is applied and does not inflame or even irritate the surrounding tissue.

This announcement will interest many women here, for it is said that the present high-heeled footwear is putting corns on practically every woman's foot.

LEMONS WHITEN AND BEAUTIFY THE SKIN.

Make this beauty lotion cheaply for your face, neck, arms and hands.

At the cost of a small jar of ordinary cold cream one can prepare a full quarter pint of the most wonderful lemon skin softener and complexion beautifier, by squeezing the juice of two fresh lemons into a bottle containing three ounces of orchard white. Care should be taken to strain the juice through a fine cloth so no lemon pulp gets in, then this lotion will keep fresh for months. Every woman knows that lemon juice is used to bleach and remove such blemishes as freckles, sallowness and tan and is the ideal skin softener, whitener and beautifier.

Just try it! Get three ounces of orchard white at any drug store and make up a quarter pint of this sweetly fragrant lemon lotion and massage it daily into the face, neck, arms and hands. It is marvelous to smooth rough, red hands.

FOR SALE.

TEN SHARES DAVIDSON CONSOLIDATED Gold Mines at \$2.00 per share. W. Hyland, 217 George St., Toronto.

FOR SALE—4 GASOLINE ENGINES, 1-1/2 H.P., also Drag Saw and Double Unit Mower. Will sell lot or separate. Call new. P.O. Box 248, Montreal.

NEWSPAPER WEEKLY IN BRUCE County. Splendid opportunity. Write Box 7, Wilson Publishing Co., Limited, 11 Adelaide St. W., Toronto.

WILL EQUIPPED NEWSPAPER and job printing plant in Eastern Ontario. Insurance carried \$1,000. Will go for \$1,000 on quick sale. Box 48, Wilson Publishing Co., Ltd., Toronto.

HELP WANTED.

WANTED—MEN AS COUNTY REPRESENTATIVES to handle wonderful new gasoline-saver for Ford cars; have ten cents per gallon; exclusive territory. Write today for particulars. Post Office Box 115, Toronto, Ont.

POULTRY WANTED.

WHAT HAVE YOU FOR SALE IN Live Poultry, Fancy Hens, Pigeons, etc. Write to W. Hyland, 217 George St., Toronto.

HOME BUILDERS!

WRITE FOR OUR FREE BOOK OF House Plans, and information telling how to save from Two to Four Hundred Dollars on your new home. Address: Hamilton Company, 25 Jackson W. Hamilton, Ont.

MISCELLANEOUS.

CANCER, TUMORS, LUMPS, ETC. Internal and external, cured without pain by our home treatment. Write to Dr. J. B. Collins, 1011 B. St., Montreal, Que.

His Souvenir.

The Commander-in-Chief in Ireland, General Sir F. C. Shaw, who has recently been promoted, told a funny story recently concerning a demobilized soldier back from France.

"And, hubby dear, did you bring me any souvenirs?" inquired his wife after the usual congratulations.

"Only this little bullet the doctor took out of my side," he answered gravely.

"Oh!" sighed his wife, "only that! I wish it had been a German helmet!"

MONEY ORDERS.

Pay your out-of-town accounts by Dominion Express Money Orders. Five Dollars costs three cents.

Had Enough.

Lady Jane: Have you given the goldfish fresh water, Janet?

Janet—No, mums. They ain't finished the water I give 'em t'other day yet.

Minard's Liniment Cures Discomforts.

A New Sect.

The Colonel (a great sufferer with corns): "Look here, sergeant, I believe you have a man named Smith, who is a chiropodist?"

The Sergeant: "Misinformed, sir—'s Church of England."

THERE IS ONLY ONE GENUINE ASPIRIN

ONLY TABLETS MARKED WITH "BAYER CROSS" ARE ASPIRIN.

If You Don't See the "Bayer Cross" on the Tablets, Refuse Them—They Are Not Aspirin At All.

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