**RIB-ROLL** *for* House roofs - Lasting, inexpensive

ROOF your house or cottage with Rib-Roll. Handsome to look at . . . increases value of property . . . lasting . . . collects clean rainwater, banishes leaks . . . ideal for houses, barns, sheds, warehouses, schools, churches, public buildings. Give size of roof for free estimate. Write

**Eastern Steel Products** *Limited*

PRESTON, ONT.

Successor to Metal Shingle & Siding Co. Limited.


## Here and There

(139)

The latest recruits to the ranks of the internationally known Trail Riders of the Canadian Rockies are the three daughters of Ramsay MacDonald, former premier of Great Britain. They rode from the Chateau Lake Louise to Lake Agnes to qualify for membership.

One of the keep ranchers of the Canadian Rockies at present in the Crow's Nest Pass where he is running a large flock of sheep on summer range. This is the first year that an independent rancher has moved sheep to the mountains for the summer and the experiment is being watched with a good deal of interest.

The first of a new series of cruises has left the Angus shops of the Canadian Pacific Railway and will shortly enter passenger service between Montreal and Toronto. It is the largest passenger locomotive in the British Empire, 97 feet in length weighing 424,000 pounds, and has eight great driving wheels 6 feet three inches in diameter. It is an entirely Canadian product, designed by Canadian Pacific engineers.

Seven flying clubs have been formed in Canada since May when the Government's plan to encourage civil aviation was put into effect, while application for two more clubs are at present being considered by the Air Board. Over one hundred Moth planes are in use throughout Canada, Air Board figures show. Half of these are privately owned. More than one hundred members of the clubs are now flying.

A resolution pertaining the Canadian Daily Newspaper Association to hold its 1929 convention in the Maritime Provinces was passed at the mid-summer meeting of the Ontario Provincial Daily Newspaper Association held on board the Canadian Pacific ship "Keewatin" enroute from Port McNichol to Sault Ste. Marie. F. H. Leslie, president of the association, referred in his speech to the ardent wish of the members for a matter acquaintance with the Maritimes.

The world wide service proclaimed by the Canadian Pacific Railway will be further improved with the establishment of a new hotel by the Company in London, England. So great a traffic of Canadian and American travellers between this continent and England has been built up by Canadian Pacific Steamships that the construction of a new hotel in the heart of the Empire has been considered for some time. And now that the 1200 room Royal York is well under way the project has been taken into hand. Operations should start next year.

Recently it was decided that fish are sensitive. Now it is discovered that they are patriotic. Some salmon in New Brunswick who were caught and carefully transported alive overland to the foot of a fish ladder leading into a river draining American territory refused utterly to leave their native waters. As soon as they were released into the water, according to a report received by the General Tourist Department of the Canadian Pacific Railway, they beat a hasty retreat down the St. John river to the point where they were caught and ascended another tributary rising in New Brunswick.

### RURAL SCHOOL FAIRS.

Following are the dates of the Huron County Rural School Fairs for this year:

Brussels, September 13th.
Hay, Sept. 14th.
Huntly, Sept. 17th.
Nile, Sept. 20th.
Tuckersmith, Sept. 20th.
Burlington, Sept. 25th and 26th.
Palmerston, Sept. 27th.
Milton Championship, Sept. 28 & 29.

### FALL FAIR DATES

| | |
|---|---|
| Acton | Sept. 18-19 |
| Georgetown | Sept. 21-22 |
| Streetsville | Sept. 22 |
| Burlington | Sept. 25-27 |
| Brampton | Sept. 25-29 |
| MILTON County Fair | SEPT. 28-29 |
| Lime Ridge Fair | Oct. 2-3 |
| Cooksville | Oct. 2-3 |


# MEDICINE FOR YOUNG GIRLS

Mothers Endorse Lydia E. Pinkham's Vegetable Compound

Sydney, N.S.—"My seventeen year old daughter took Lydia E. Pinkham's Vegetable Compound for weakness and pains. She could not go about much with the other girls as she was not strong enough. We got six bottles and it did her a great turn. She is working out now in a store and walks three miles every morning and back in the evening." —MRS. MARY VANOS, 44 Lingan Road, Sydney, N. S.

Pinewood, Ont.—"I constantly had pains in my back and side and spent two days in bed every month. I have taken three boxes of Lydia E. Pinkham's Vegetable Compound Tablets. They have done me good and I always have them in the house. I have recommended your good medicine to several friends and have given it to my 17 year-old girl."—MRS. ALFRED OUELLETTE, Pinewood, Ontario.


## TO REPLACE VACCINATION

### Pills Taken Before Breakfast for Three Days to Fight Disease Abroad, Declares Dr. Plotz.

Pills of dead bacilli are taken before breakfast for three days in the simple method of immunization against typhoid, dysentery and cholera now being used by people in large sections of Europe and Asia. The pills are preceded by doses of ox bile in the typhoid and cholera vaccination, says the New York World.

This means of immunization, which grew out of animal experiments made at the Pasteur Institute by Prof. A. Besredka, is becoming increasingly popular, according to Dr. H. Plotz, his American assistant. It is being used now extensively in France, Russia, Italy, Spain, and India, Dr. Plotz stated in an interview with a Science Service correspondent.

"Vaccination by the mouth is much simpler and easier for the patient," he said. "There are no disagreeable after-effects such as often follow vaccination under the skin and which in the case of dysentery, proved so disastrous that the subcutaneous method was abandoned.

"It is also more rapid in its immunizing power. We have proved experimentally that immunization takes place a day or two after the last dose of vaccine is given."

Moreover, the new method is quite as effective as the old, he stated. Statistics show that in various typhoid and cholera epidemics where both methods were used, vaccination by the mouth was equally effective, and in some cases more so. Just recently Lt.-Col. A. J. H. Russell, in a report to the medical section of the League of Nations, showed that he had found vaccination by the mouth and vaccination under the skin to be of equal effectiveness for cholera. He drew these conclusions after extensive vaccinations in towns in India, using both methods.

Col. Russell is director of public health, Madras, India. Vaccine by the mouth was given to 4,982 persons. Of these, eighteen contracted the disease, with four deaths resulting. In other words, the percentage attacked was 0.36, with the deaths 22.2 per cent of those. Among 11,094 unvaccinated controls, 222 contracted cholera and 93 died, making the percentage 2.02 attacked, of which 41.9 per cent died. Vaccine under the skin was given 8,485 persons, of whom 31 contracted the disease, 2 dying. The percentage attacked was then 0.37 and the mortality 6.5. Of 29,254 unvaccinated controls in this experiment, 489 contracted the disease, 184 dying. The percentage attacked was 1.67 and the percentage of mortality 37.6.

Prof. Besredka's theory which led him to experiment with oral vaccination is a very simple one, Dr. Plotz explained. It is simply that it is logical to vaccinate the organ that is infected during the course of the disease. In the case of dysentery, typhoid and cholera, the germ enters by way of the mouth and produces the disease in the small intestine. Then why not vaccinate by the mouth, he queried, and emulate Mother Nature as much as possible? This is a far more direct way for the vaccine to reach the intestine than through the skin.

Just to immunize against typhoid and cholera Prof. Besredka found that it is necessary to administer ox bile first. Bile prepares the mucous membrane of the intestinal wall to receive the dead bacteria which are given by the mouth. It removes the mucous and prepares for the absorption of the vaccine which might otherwise slip through the intestinal tract. In the case of dysentery, however, the bacteria in the vaccine are capable of performing this function themselves.

American workers in this field regard Dr. Besredka's figures as interesting and encouraging but are of the opinion that they cannot be accepted at their face value alone. Interpretation of such fundamental experiments, they maintain, is not entirely acceptable without further confirmation.

### Lighting Cigarettes With Steam.

Have you ever seen a cigarette lighted by steam? It is one of those things that sound impossible — yet isn't.

The visible cloud that escapes from the spout of a kettle or from the whistle of a railway engine is usually called steam. It is not really so. This cloud has ceased to be steam and has condensed to tiny droplets of liquid water. In real steam all the water is still in gaseous form and is invisible.

A small boiler capable of producing high pressure steam can give out a small, invisible stream of steam that will set fire to a cigarette or a match. The visible "steam" of a kettle has the reverse effect of putting out flames.

### Organizing Chinese Students.

Organization of workers and students into unions, which was strictly forbidden by Chang Tso-lin, has been resumed briskly in North China since the appearance of the Nationalists. University students, middle-school students, and even primary school pupils are forming unions. Workers of every class are organizing.

However, this movement is being closely watched by the Nationalist authorities, who have warned the people that anything smacking of Communism will not be tolerated.

### Violin With Straight Sides.

Instead of being curved, the body of a violin constructed by a Chicago maker is angular, the form enabling the player to reach farther on the strings although his fingers may be short, and making the instrument easier to hold under the chin, says Popular Mechanics Magazine. At the same time, an improvement in tone is claimed for this pattern.

### One Inch of Rain.

One inch of rain on an acre of land would all more than 600 barrels of forty-five gallons capacity each.

### Insurance Prefer Lean Men.

In conversation, an English insurance man said that, unlike Caesar, insurance companies prefer lean men, as they consider them better "lives" than fat men. In this connection he added that men of moderate girth usually put on considerable weight if they give up smoking. His observation of this particular method of weight-building has extended over many years.

### Consumption of Tin.

The consumption of tin has increased enormously with the popularity of silk and artificial silk. Ten years ago British silk companies were using 800 tons of tin a year; now they are using 8,000 tons — for weighting and dyeing purposes.


All Kinds of Trucking Done—live stock, furniture, etc., short or long distances. Reasonable prices.—Stanley Ezard, phone 273, Milton. Full information at Cooper's Garage, No. 227.


## SUITS TO LAST LIFETIME.

### Made From Ramie and Will Cost Buyer Less Than Linen.

A suit of clothes durable and strong enough to last for several generations and look its best all during that period, and to cost no more than the average linen suit of to-day, was promised recently by John S. Moton, president of the Ramie Corporation of America, which has its headquarters in New Orleans.

Moton told the United Press that some cultivation of the ramie plant was already under way in the United States and machinery for separating the fibre from the plant, invented by a Frenchman, was being imported.

The cloth made from the ramie plant looks like a good grade of linen and a shirt made from the fibre will last at least ten years. The cloth is also used in making men's suits and women's dresses. It has a silken lustre which adds greatly to its attractiveness, Moton said.

The ramie plant requires very little cultivation and resists alike extreme hot and cold weather and replanting is necessary only at intervals of about twenty-five years.

A small space of ground was planted with ramie as an experiment in New Orleans about thirty-five years ago. Now the growth is hardy and thriving despite the handicap of neglect and lack of cultivation, Moton said.

Louisiana particularly and the southern coast and southeastern States generally are adapted to the growth of ramie and before many years Moton expects to see the plant take is place as one of the chief textile industries of the country.

In addition to the use of the plant's fibre for cloth-making, Moton said a good grade of paper is made from the waste pulp.

## HAS UNIQUE FEATURES.

### Steam Boilers Work at a Pressure of 3,375 Pounds.

Steam at a pressure of 225 atmospheres, or 3,375 pounds per square inch, is generated in a new battery of boilers recently installed at the Siemens-Schuckert works at Charlottenburg, Germany. The installation has attracted considerable attention among power engineers because of a number of unique features it involves. The design was developed by an Englishman, Benson, but the German plant is its first construction on a large industrial scale.

Each boiler consists of a high, relatively slender octagonal tower. There is an open atomic space, surrounded by the water tubes. Coal dust is used as the fuel. This is blown in at the top of the tower, together with a blast of preheated air, and combustion takes place in the central open space, generating an unprecedentedly thick fire-box temperature, and producing steam at a pressure of over 3,000 pounds per square inch and a temperature of 450 degrees centrigrade.

At the bottom the small amount of ash falls out, and the combustion gases are turned back to warm up the preheater for the air blast, which is raised to a temperature of 400 degrees centrigrade before it enters the combustion chamber. So completely is the heat used up that the outside of the towers are said to be but little warmer than the surrounding air.

No firemen or boiler tenders are required, for the coal dust, air and water supplies are all regulated electrically. There is not even any boiler house; the towers stand out in the open. The elimination of a shelter for the boilers of course effects an additional saving in installation costs.

### Saved by Glass.

A new glass has been invented that withstands pressure, heat, and acids better than any yet known. It was first used for making glass tube water-gauges and glass bars, and will sustain a cold-water pressure of 20, 45, 65, 80, and 100 atmospheres.

It is also used in weaving and silk-spinning mills to replace bobbins of wood, which frequently became splintered and rough, tearing the threads of the material.

Original attempts to substitute glass bars for the wooden bobbins were unsuccessful because the glass used would not withstand fluctuations of temperature. The new glass, however, will stand a sudden change from 160 degrees to 0 degrees Centigrade without damage.

### Airport Development In U.S.

Five hundred and fifty-seven new airports have been developed by towns and cities in the United States in six months of 1928, the American Air Transport Association reports.

At the end of 1927 there were 1,800 regular classified fields, in addition to more than 4,000 airports owned by states, cities, commissions and similar organizations, on which emergency landings could be made.

Most fields are municipally owned and operated, and improvements have been notable at points situated along air mail routes. Hand in hand has come the markings of city names on prominent buildings as guides to flyers. One national organization already has marked 1,000 buildings.

### Secret of Bird's Perfect Flight.

Attached to a bird's back, a new instrument can be used to record its motions in the air, revealing the secret of a bird's perfect flight.

The device weighs only two ounces, and strapped to the back of a pigeon or other tame bird it will register on a marked chart how far up and down the bird's wings move, how fast it is travelling, and how many strokes a minute its wings are making.

These records may be of great value in designing future airplanes.

### Antidisestablishmentarianism.

The longest word in any English dictionary is "antidisestablishmentarianism," which contains twenty-eight letters. Another exceptionally long word found in many unabridged English dictionaries is "honorificabilitudinitatibus," which contains twenty-seven letters.

### The Blue Baboon.

A grotesque but humane method of repulsing wild animals is being practiced in Kenya Colony, Africa. Elephants, hippopotami, bushpigs, and baboons were surprised recently when they found among their number a queer animal resembling a baboon, except that it had all its hair shaved off and wore a coat of bright blue.

They were so startled that they no longer return to raid the colonists, and the idea is recommended by the official who captured the baboon and released it after transforming its appearance with a razor and paint brush.


Get your Garden Party bills printed at THE CHAMPION Office. We not only promise, but give satisfaction and service.

**Dry Cleaning — Hoffman's Steam Pressing and Dying. Alterations to ladies' garments our specialty.—Art Wales, Your Tailor.**

*For Home Made Pickles*

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*Write for FREE recipe book on pickles, salads, salad dressing, sandwich fillings, etc.*

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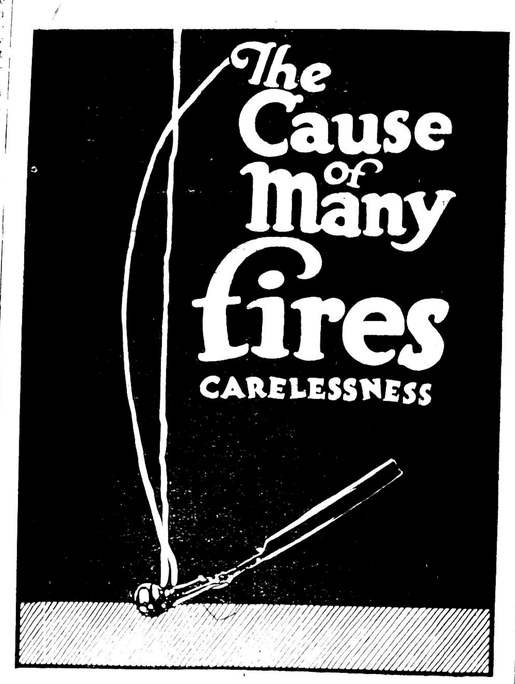
**Mustard Pickle**

*Slice 100 small cucumbers and 1 quart small onions. Put in enamel dish in layers with salt between. Put a heavy weight above and let stand overnight. Drain off Liquid. Mix 1 ounce celery seed, ¼ lb. Mustard seed, ¼ lb. Ker's Mustard, 1 tablespoon black pepper, all in with 1 pint olive oil, stir in 2 qts. vinegar — pour all over pickles. Mix well and seal in sterilized jars.*

**KEEN'S MUSTARD**

*Aids Digestion*

567



*Here's how you pay for neglect*

AN under-inflated tire soon gets into real trouble — broken side walls, a punctured inner tube — often a blowout.

Under-inflation is one of the chief causes of premature tire failure. Tests have proven that every 10% drop from the correct inflation causes a 20% drop in mileage.

Call at a Dominion Tire Depot and have your tires examined.

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Write for free book, "Walls That Reflect Good Judgment," on home planning with Gyproc, Rocboard and Insulex.

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**GYPROC**
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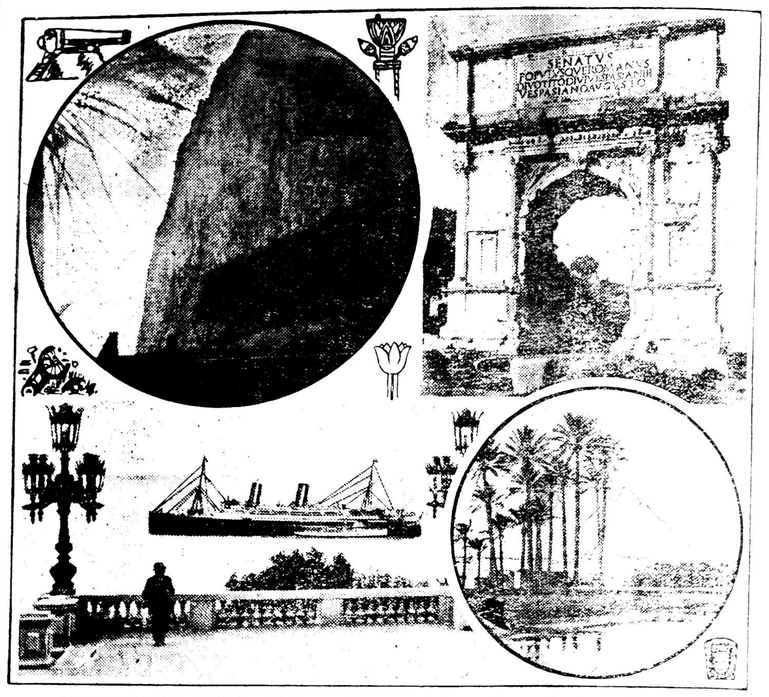
## Carrying the Canadian Flag to World Ports



Upper left—The Rock of Gibraltar with its unceasing sources of interest. Lower right—Egypt with its pyramids is visited. Lower left—The Empress of France lying at anchor off the fashionable resort of Monaco. Upper right—The Arch of Titus at the Forum, Rome.

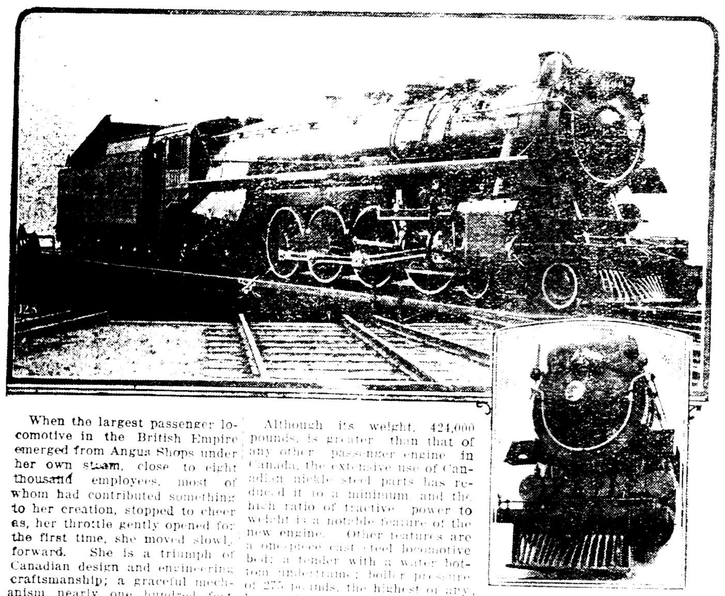
As evidence of the popularity of Canadian ships, at home and abroad, the Canadian Pacific Empress of France sailed from New York recently on her annual cruise of the Mediterranean booked to her cruise capacity. In all over 400 passengers were aboard for the two-months' voyage to many of the world's "high spots".

The cosmopolitan group of wanderers was composed of people from every branch of activity in North America. Some were habitual globe trotters, but in the main they represented the average successful citizen going abroad with the satisfaction of having achieved his life's desire—travel. Every province and state on this continent was represented.

According to recent statements made by Walter Maughan, steamship passenger traffic manager, cruising to the four corners of the earth has come to stay. The traveller of the hour approves of the arrangements made by experienced hands, and of going from place to place under one [illegible] and shore. This obviates worry to the [illegible] every small detail incident to foreign travel [illegible] out and seen to by the cruise management [illegible] intricate money transactions in foreign [illegible] cluded. The Empress of France has won [illegible] of the travelling public as she has [illegible] many world celebrities as any other [illegible] cluding the hole to the British [illegible] elled to and from America four times [illegible]

After two consecutive years [illegible] Pacific Mediterranean cruises [illegible] France will next year break [illegible] cruise to South America and [illegible] arranged by the company. [illegible] touching many ports in the southern hemisphere [illegible] readily accessible to the tourist [illegible] at the closing ports of the cruise, to the familiar ports of the Mediterranean.

## Largest Passenger Engine in British Empire



When the largest passenger locomotive in the British Empire emerged from Angus Shops under her own steam, close to eight thousand employees, most of whom had contributed something to her creation, stopped to cheer as, her throttle gently opened for the first time, she moved slowly forward. She is a triumph of Canadian design and engineering craftsmanship; a graceful mechanism nearly one hundred feet long, with a tractive effort of 66,800 pounds, equal to 3,685 horse power.

The new K-1-A" Class locomotive has been built from designs originated in the motive power department of the Canadian Pacific Railway in the company's own shops by its own employees. Two of these engines have been constructed and they will first be operated on the Montreal-Toronto run.

Although its weight, 424,000 pounds, is greater than that of any other passenger engine in Canada, the extensive use of Canadian nickle steel parts has reduced it to a minimum and the high ratio of tractive power to weight is a notable feature of the new engine. Other features are a one-piece cast steel locomotive bed; a tender with a water bottom underneath; boiler pressure of 275 pounds, the highest of any locomotive in Canada; and a length of engine and tender of 97 feet 5 inches. There are eight pairs of wheels, a four-wheel leading truck, eight drivers, and a four-wheel trailing truck. The wheels have a diameter of 75 inches and the cast nickel steel cylinders are 27½ inches by 30 inches. The coal capacity is 18½ tons, and water capacity 12,000 gallons. A mechanical stoker considerably lightens the duties of the fireman.

The new design [illegible] it increased power [illegible] weight and [illegible] The result has [illegible] dian technical [illegible] ship is equal to [illegible] ding a fully equipped [illegible] the best type under [illegible] and that the Company [illegible] Angus shops, the [illegible] on the continent, [illegible] vying successfully with [illegible] el engine building plants anywhere in the world.

## Five Braw Highland Lassies

**They came from Vancouver with a number of others, all pupils of Miss Jean Gauld (centre), to enter the lists at the Banff Highland Gathering. They all had their fling and their seann triubhas and sword dance too—to the tune of the piper.**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*A safe, reliable regulating medicine.* Sold in three degrees of strength—No. 1, $1; No. 2, $3; No. 3, $5 per box. Sold by all druggists, or sent prepaid on receipt of price. Free pamphlet. Address: THE COOK MEDICINE CO. TORONTO, ONT. (Formerly Windsor)

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