When the Sap Flows.

Of the many upward movements in the ...ing. iew are so mysterious and so little comprehended as that of the sap, forcing its way through the tiny rootlets to the top of the tallest trees. Why dees it rise with no known power compelling it against the well known natural powers of gravity, the resist nce of /riction and so on? A master

"Capillary attraction" is the physi cal term most commonly employed to account for this natural phenomenon but it does not answer several ques tions which might occur to an inquir-ing and intelligent mind. The original impulse undoubtedly comes from the rootlets of the trees through whose trunks and branches the sap ascends. The rootlets absorb from the earth moisture, much as blotting paper ab-corbs ink. The extremities of the branches give off their fluids by evaporation and the sap, relieved of this pressure, flows upward into them. With the sap in the branches are introduced small bubbles. Thus is made what the physicist knows as a "Jamin of bubbles and water. When the air currents move the trees, the little tubes, bearing the water and air, are flattened, and their contents are driven out—unward and driven out—upward and downward.

As the tree regains its upward position, the tubes fill from below, and the

upward flow of the sap is resumed.

For reasons which may occur to
everybody, this may seem a lame explanation, though it appears to be a valid one, as far as it goes; and it lends an added significance to the in-cessant movement of the trees, which, perhaps, is thus serving a definite pur se -Review of Reviews

# Great Fortress at Mercy

The Rocky Island, Heligoland, which as a fortress kept vigil over the western entrance to the Kiel Canal and Source—A locality. the constant explosions of dynamite, classification of those which have been Source—A place name.

great crag of red and white sandstone through the period of family name for than the latter. cussions that its complete annihilation by the rough waters and strong winds town and hamlet at this period was from the eleventh to about the fif

cannot again be fortifled, the shat d island, which has a population of 3,000 fisherfolk, probably will be eff to the mercy of the elements.

A Quick-Thinking Preacher. What a valuable gift is a ready wit! so often makes the difference be reen humiliation and triumph. An ateresting example of its usefulne in a tight place is given by a contribu-tor to the Atlantic Monthly. She

One day an Indian native preache whom I delight to think of was trying to preach to a crowd of Mohammedan villagers. An old hostile maulyi ster

'If you think you are able to instruct us, tell me this: God made the world. didn't be? Well, what did He do with the pieces that were left? You know there must have been some scraps."

Without hesitating, the preacher

nich shone in their snows or corn b dazzlingly after a winter rain.

The crowd looked and fell silent. "That's so;" conceded the awe-struck maulvi. And they heard him reverently to the end, no longer doubting his

#### Slow Moving, but He Budged at Last.

A Youngstown, Ohio, man, says the elegram of that city, recently applied for settlement of a claim for fire insurance and in response to the agent's querries explained that it was a door that was burned, and that the damages amounted as near as he could estimat to about five dollars.

"When did the fire happen?" asked

the agent, and after a moment's hesitation the answer came:

"About thirty years ago."
"What? Thirty years ago, and you

bave waited all these years to report "Yes, sir."
"Well, sir," said the Youngstown

man, "the wonien-folks at my house have never given me a moment's peace since that durn door was burned, and I just couldn't stand it any longer." In Memoriam.

First Bachelor—"Why weren't you at your chum's wedding this morning?"
Second Bachelor—"I prefer to remember him as he was in life."

The birth-rate for England and Wales for the year 1922 was the lowest on record, save for the war years, 1915 to 1919.

# SMOKE

The Tobacco of Quality /2 LB. TINS and in packages

# Surnames and Their Origin

name and flying base during the World It is a matter of fact that the number of the state of the

The name of virtually every city, of the North Sea may come within a likely to be taken not by one but by teenth century, place names formed few years if protective measures are many individuals who moved away one of the most usual sources from not taken. The island rises a hundred from it to some other place. Or rather, which surnames grew. Family names,



ched out his arm, pointing direction of him. The crowd turned you lift it right off with finpers. Truly Your druggist sells a tiny bottle of "There are the pieces," he cried "Freezone" for a few cents, sufficient to remove every hard corn, soft corn, luses, without soreness or irritation.

convenient designation than the mem-bers of the family itself.

HARTWELL

Hartwell is one of those family which for three years have been demolishing the great fortifications the Germans had imbedded in the cliffs.

German scientists assert that the

of the deer."

East or West Eddy's Best MATCHES

> Insist on having EDDY'S!

THE TEST OF TIME FOR RHEUMATIC SUFFERERS HAS PROVEN



Is a positive Remedy for Acute, Chronic and Muscular Rheumatism in all its various forms.

COUNTLESS GRATEFUL TESTIMONIALS and Repeat Orders received during past 25 years. DOBSON'S NEW LIFE REMEDY is not an experiment but the

product of a quarter century of study and research. Pleasant to take. Does not upset the stomach. No harmful drugs.

DO NOT BE PREJUDICED. Dobson's New Life Remedy will give you a new lease on life by freeing you of pain. Thousands of enthusiastic customers have written us stating that after years of failure with other medicines, electric belts, etc., they were cured by Dobson's New Life Remedy.

One bottle for One Dollar. Six bottles for Five Dollars.

Mem Life Remedy Company 78 West Adelaide St., Terente Canada





She-'How long ought it to take you to teach me to skate?"

He—"I should say about all winter,
but I can teach a bomely girl in half

## France's Sherlock Holmes.

The best-known detective in France He at the present time is Edmond Bayle, a chemist whose laboratory is in the Palais de Justice in Paris. He is chief of the technical bureau

of the Paris police department, and he hes met with such success that the more meducated criminals look upon him as a dabbler in magic.

names of over eight million persons who have eyer been involved in crime of any sort, and full particulars of any one of them can be produced at a moment's notice.

Item inagestion, but the Tablets son set her right and now I would not be without them." Baby's Own Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

that there is no crime that cannot b etected, and that every criminal, how

# A GOOD MEDICINE FOR THE SPRINGTIME

Do Not Use Harsh Purgatives-A Tonic is All You Need.

not taken. The island rises a hundred feet above the sea, but is less than a mile leng and scarcely a quarter of a mile leng and scarcely a quarter of a mile wide at its broadest part. Great sections of the cliffs already have sellipped into the seas since the demolition of the fortifications began under it of the British and French. The Germans built numerous sea alls and spent much money in proceing the island against the ravages the sea when it was a fortress; but it under the Versailles Treaty terms; cannot again be fortified, the shat-

Do not dose yourself with purgatives, "How are you making out with that abandoned farm you bought?"

"Fine! I sold the quarry rights to one crowd, and rented the surface to another as a golf course. Now if I can lease the air to some wireless company I'll have about everything under cultivation. Who says intensive farming doesn't pay?"

tives gallop through the system and weaken instead of giving strength. Any doctor will tell you this is true. What you need in the spring is a tonic that will enrich the blood and build up the nerves. Dr. Williams' Pink Pills do this speedily and surely. Every dose of this medicine helps to enrich the blood, which clears the skin.

mail at 50c a box from The Dr. Williams' Medicine Co., Brockville, Ont.

#### Bread 2,500 Years Old.

It seems impossible that bread could that is the age of a loaf dug up no

The discovery was made by a French explorer in Syria, and he estimated that the loaf was baked in the year 560 B.C. In the shape of a bun, it was in excellent condition and was wrap-ped in a cloth in a tightly-sealed tomb. Other ancient loaves have been found at Pompeti, in Italy. Unearthed in a well-preserved oven, they were slightly charred, but the baker's name

was read quite easily.

Not so old as these, but still getting
on in years, is a loaf which is preserved at Ambaston, in Derbyshire, It is over 700 years old, and was originally given to the Soar family with a grant of land made to them by King

MONEY ORDERS. Send a Dominion Express Money Order. Five Dollars costs three cents

Economy. "John, since you say we must

economize, I have decided not to get Josephine a new hat this winter, but to let her have mine." Hub-"And you?" Wife-"Oh, I must have a new one,

The Disturbing Element. Maloney, Jr.—"What's an "amicable ettlement, Pa?" Maloney, Sr.—"A town where there's

Orish, Of suppose, sonny."

inard's Liniment for sale everywhere

Two travelers halted on a m

ers must fail! would be flogged and frozen by the

Lightning would scorch him, polar Bleeding beneath the not scale!"

ing toil, mounted that precarious, rock-

Hearing his fellow wail, "You are too stood, triumbhant, on a starry

#### CHILDHOOD INDIGESTION

Nothing is more common in childhim as a dabbler in magic.

Dr. Bayle does not work on the British Sherlock Holmes lines. He pays no attention to the personality or psychology of the criminal, but confines himself to material things.

His workshop is equipped in accordance with this, and the numerous pieces of apparatus are designed for special purposes, such as examining forged money, the detection of bloodstains, and, in fact, the analysis of anything and everything that is picked [Jones of the property od than indigestion. Nothing is anything and everything that is picked up by those on the trail of a criminal.

In his records are registered the lets soon set her right and now I would

## Population of Palestine. Palestine has a total population of 757,182, according to the figures of the

ensus of three months ago. Ten pe cent. of the people in Palestine are given as Christian, 11 per cent. as Jews and 79 per cent. as Mohammedans. The figures for Christians and Jews are regarded as about correct, but there was such strong opposition to the census on the part of the Mohammedans that their number probably is

areth has a population of 7,424 of which roughly two-thirds are Chrisas many people do, in the hope that you can put your blood right. Purgatives gallop through the system and has about 47,000 people, of whom there

the blood, which clears the skin, strengthens the appetite and makes tired, depressed men, women and children active and strong. Miss S. L. McEachron, Nairn, N.B., says:—"I have been in the habit of taking Dr. Williams? Pink Pills in the spring and they keep me in the best of health. I think it is entirely due to the use of these pills that I always have such good health."

Sold by all medicine dealers or by

Britain can speak by telephone to France, Belgium, Switzerland, and Holland. In America the range of the long-distance phone is over 4,000 miles.



#### Stops Backaches at once-so comforting

A tiring day on your feet. Stooping, lifting, running up and downstairs—does your back feel tied in painful knots?

Apply Sloan's to those sore, tired muscles. That warm, penetrating glow brings immediate comfort. Almost before you realize it the pain and stiffness are gone.

Wherever congestion causes pain—use Sloan's, Sloan's is protection against pain. All druggists carry it.

Made in Conada Sloan's Liniment-kills pain!
For rheumatism, bruises, strains, cheat colds

188UE No. 16-'23.

# LOST 30 POUNDS THEN GAINED 35

Veteran Real Estate Broker of Toronto Tells of Remarkable Restoration by Tanlac.

James Burns, 20 St. Albans Street is still another man of prominence in Toronto to speak out in behalf of Tan-

lac. Mr. Burns is now seventy-three years of age, but says: "No one takes me for seventy-three And he would fall to icy caves below, now, and I feel every bit as active as

cliffs he could "Before taking Tanlac my weight fell off from one hundred and sixty to thus invoked one hundred and thirty pounds, and sied by Major-General Sir W. S. But while one wanderer thus invoked despair.

The other dug his spikes deep in the soil.

And inch on inch, by steady, strainand inch on inch, by steady, strain-

Nights I would pace the floor too ner vous to sleep, and many days I felt too worn-out to dress and go out any-"I don't believe I could have ever pulled up to where I am now if it badn't been for Tanlac. It has restored my health completely and built me up to one hundred and sixty-five pounds.

Tanlac is the best investment I ever Tanlac is for sale by all good druggists. Over 35 million bottles sold.

British boys will be sent across to Australia at the rate of 500 a month if a scheme of emigration, recently launched by the Australian Government proves successful.

Minard's Liniment used by Physicians.

The New Testament was divided into verses by Robert Stevens, a printer, in 1551.



Keep Stomach and Bowels Right MRS. WINSLOW'S SYRUP

## Cuticura Heals Face Disfigured With Itchy Eczema

"Eczema broke out in watery pim ples on my face and head. Late ples on my face and head. Later my checks and head became so bad that they were covered with large scales. The itching and burning were so severe that I could not sleep at night. My face was badly disfigured. My hair became dry and lifeless and fell out so that I had to have it cut off close to my scale.

"A friend advised me to try Cutl-cura Soap and Ointment so I pur-chased some, and after using two cakes of Cuticura Soap and two boxes of Cuticura Ointment I was healed." (Signed) Mrs. Elmer King, Box 278, Jackson St., Oxford, Nova Scotia.

Make Cuticura Soap, Ointment and Talcum your daily toilet preparations. Eample Each Free by Mail. Address: "Lymans, Limited, 344 St. Paul St., W., Montreal." Sold everywhere, Sospie. Ointment Eand 50c. Talcum 25c. Cuticura Soap shaves without mug.

#### Classified Advertisor

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REPAIRS AND SUPPLIES. Chathan Inc. bators, Thermometer apply Manson Campbell, Chatham, On

ADIES WANTED—TO DO PLAIN
L and light sewing at home, whole or
spare time; good pay; work sent any
distance; charges paid. Send stamp for
particulars. National
Co., Montreal.

Manufacturing

MURINE.

For the Kidneys Kidney troubles are frequently caused by badly digested food which sovertaxes these organs to eliminate their ritant acids formed.

Help your stomach to properly digest the food by taking 15 to 30 drops of Extract of Roots, sold as Mother Seigel's Curative Syrup, and your kidney disorder will promptly disappear. Get the genuine. 50c. and \$1.00 bottles.

# HEADACHE?

Bathe the forehead with Minard's and inhale freely. It gives quick relief for every ache.



# THEY TELL THEIR **NEIGHBORS**

Women Tell Each Other How They Were Helped by Lydia E. Pinkham's Vegetable Compound

Woodbridge, Ont.—"I took Lydia E. Pinkham's Vegetable Compound for female troubles. I would have headaches, backaches, pains between my shoulders and under my shoulder-blades and dragging down feelings on each side. I was sometimes unable to do my work and felt very badly. My mother-in-law told me about the Vegetable Compound and I got some right away. It has done me more good than any other medicine I ever took and I recommend it to my neighbors. You are quite welcome to use this letter as a testimonial if you think it will help some poor sufferer. "—Mrs. EDGAR SIMMONS, R. R. 2, Woodbridge, Ont.

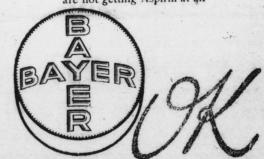
In nearly every neighborhood in every

poor sufferer. — Mrs. EDGAR Statuous, R. R. 2, Woodbridge, Ont.

In nearly every neighborhood in every town and city in this country there are women who have been helped by Lydia E. Pinkham's Vegetable Compound in the treatment of aliments peculiar to their sex, and they take pleasure in passing the good word along to other women. Therefore, if you are troubled in this way, why not give Lydia E. Pinkham's Vegetable Compound a fair trial.

This famous remedy, the medicinal ingredients of which are derived from roots and herbs, has for forty years proved its value in such cases. Women everywhere bear willing testimony to the wonderful virtue of Lydia E. Pinkham's Vegetable Compound.

UNLESS you see the name "Bayer" on tablets, you are not getting Aspirin at all



Accept only an "unbroken package" of "Bayer Tablets of Aspirin," which contains directions and dose worked out by physicians during 22 years and proved safe by millions for

Colds Toothache Earache

Headache Neuralgia Lumbago

Rheumatism Neuritis Pain, Pain

Handy "Bayer" boxes of 12 tablets-Also bottles of 24 and 100-Dru