

## A Wonderful Discovery

An eminent scientist, the other day, gave his opinion that the most wonderful discovery of recent years was the discovery of Zam-Buk. Just think! As soon as a single thin layer of Zam-Buk is applied to a wound or a sore, such injury is insured against blood-poison! Not one species of microbe has been found that Zam-Buk does not kill!

Then again. As soon as Zam-Buk is applied to a sore, or a cut, or to skin disease, it stops the smarting. That is why children are such friends of Zam-Buk. They care nothing for the science of the thing. All they know is that Zam-Buk stops their pain. Mothers should never forget this.

Again. As soon as Zam-Buk is applied to a wound or to a diseased part, the cells beneath the skin's surface are so stimulated that new healthy tissue is quickly formed. This forming of fresh healthy tissue from below is Zam-Buk's secret of healing. The tissue thus formed is worked up to the surface and literally casts off the diseased tissue above it. This is why Zam-Buk cures are permanent.

Only the other day Mr. Marsh, of 101 Delorimier Ave., Montreal, called upon the Zam-Buk Co. and told them that for over twenty-five years he had been a martyr to eczema. His hands were at one time so covered with sores that he had to sleep in gloves. Four years ago Zam-Buk was introduced to him, and in a few months it cured him. To-day—over three years after his cure of a disease he had for twenty-five years—he is still cured, and has had no trace of any return of the eczema.

All druggists sell Zam-Buk at 50c. a box, or we will send free trial box if you send this advertisement and a 1c. stamp (to pay return postage.) Address Zam-Buk Co., Toronto.

## RADIUM BATHS.

(CHICAGO TRIBUNE.)

More than 10,000 baths of radium, charged water have now been administered at the Austrian state mines at Joachimsthal and an official report summarizes what has been learned of their curative value.

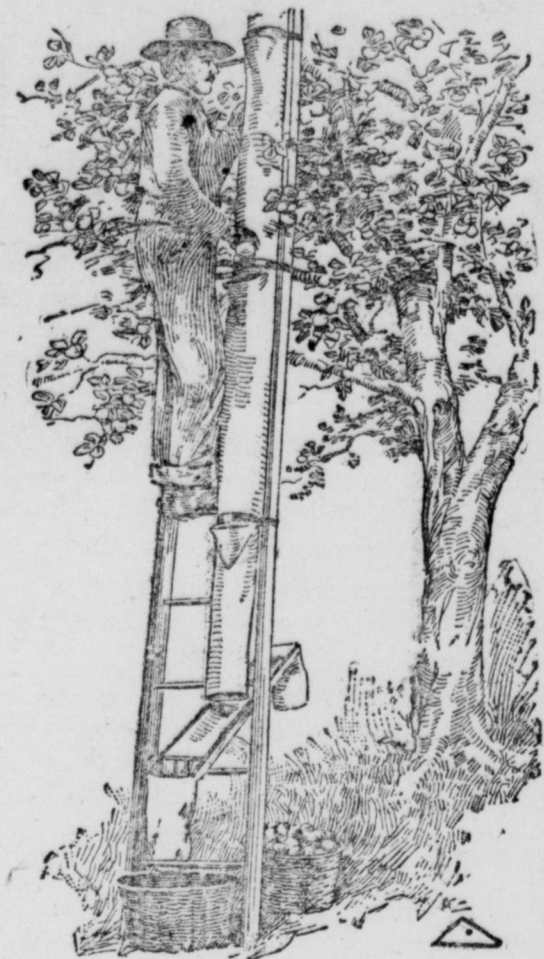
The experiments with cancer have been too brief to justify any positive conclusions. But good effects have been noticed, not merely in rheumatism and gout, but in spinal paralysis of children, hemorrhage of the brain and certain cases of nervous exhaustion. Corpulence is reduced by the baths while washing the teeth with radium water has made firm those loosened by chronic inflammation.

## FRUIT PICKING DEVICE.

Canvas Gravity Chute That Attaches to the Ladder.

A fruit picking chute which will reach to the top of a twenty-five foot ladder and convey the fruit to baskets on the ground has been invented by a fruit grower of Orange county, N. Y. The chute is made of canvas and is provided with pockets so spaced as to allow the dropping of fruit into it from any rung of the ladder.

It may be attached to any ladder by means of straps, and as it does not



OPERATION OF FRUIT PICKER.

add more than ten pounds to the weight the ladder may be carried around and placed against the trees in the usual way. Two baskets are placed on the ground to receive the fruit as it drops from the trough provided to make the fall light. When one is filled the picker tips the end of the trough into the other by means of a simple arrangement always within reach.

"You say you have played Hamlet?" "Yes." "How long?" "Well, I've played it as long as an hour and a half once or twice."—Washington Herald.

The Politician—What is the next question to bring before the American people? The Voter—They have had questions enough. What they want is a few answers.—Puck.

Bonleigh—I hope my call has not tired you. Miss Keen—Oh, no. I inherit a wonderfully strong constitution.—Boston Transcript.

He—I heard, Miss Pert, you were looking for a husband, and here I've turned up. She—Have you? Well, now you're turned down.—Baltimore American.

What is a vacation? Delight's annual goal—Time's most fleeting portion Marked down by a roll.—Cleveland Plain Dealer.

"Why don't you take a part in politics?" "I never take a part in anything," replied Mr. Dustin Stax. "My rule is all or nothing."—Washington Star.

## BIG SHIP BUILDING

The Planning and Constructing of an Ocean Liner.

FIRST A MINIATURE IS MADE.

This Small Model Is Then Thoroughly Tested, and the Story It Tells When Perfected Will Be the Story of the New Vessel When Launched.

Building a modern ocean liner is an interesting and complicated operation. The ship's plan is first prepared in sections from owners' specifications, on a scale of a quarter or half an inch to the foot. One set of drawings, called the "sheer draft," is a plan of the ship's skeleton or framework without the plates, the internal deck, bulkhead and hold arrangements being indicated by a series of detailed drawings.

Follows then the experimental stage. A wooden block or casting of paraffin wax is first made to scale from the ship's plans and tested in a large tank about 300 feet in length and eight feet deep. The model, weighted to the load line, is towed to and fro by an overhead traverser at varying speeds.

Delicate instruments register the exact "pull," the displacement, the stability and a host of other information. The shape of the model is altered again and again, pieces being shaved off here and others there. The final results are carefully tabulated, and from this ship in embryo the builders complete their plans.

Inside the central shed, 250 yards long and 150 feet in height, the ship's berth has meantime been prepared. Thousands of wooden piles, about thirty feet in length, have been driven by pile drivers deep into the ground. On these are laid huge beams and the floor completed with stout planks. Then in the center the keel blocks, surmounted by oak caps in groups of five, are assembled on a falling gradient to the river of about half an inch a foot.

All is now ready for the reception of the ponderous keel. This—the backbone of the ship—is of huge strength, measuring four feet across, and is three and a quarter inches thick. Parallel with the keel, but above it and attached by angle bars, is the central girder, five feet high, the space between forming the double bottom. On each side, at regular distances running lengthwise, are seven other girders, the outer one called the "margin plate."

The water tight chambers are formed by vertical partitions of plates extending above and beneath the floors up to the margin plate on each side.

After the great cast steel stern frame and the stem bar for the bows have been attached the plating begins. The steel strips of varying sizes, but averaging thirty four feet in length and about three tons in weight each, which form the skin of the ship, are laid on in strikes like the bricks in a wall. Fitting these strikes to the shape of a ship is a critical business. A thin wooden pattern or template is first prepared for each plate and clamped in position on the ship's side. With minute care every detail is marked on it—the size and shape, the overlap and the rivet holes.

It is then transferred to its prototype, the steel plate, which is cut, punched and bent by wonderful machinery that slices steel strips, punches rivet holes and bends steel plate as easily and cleanly as though the material were paper. Nimble traveling cranes on ganties under the roof pick up the huge plates when ready and convey them to their appointed place, where the hydraulic riveter—a mechanical marvel—with irresistible force and rapidity drives each rivet home. In the building of a modern liner over 4,000,000 rivets are used. Each joint is rendered water tight by caulking.

The outer shell finished and the inside work far advanced, the builders turn their attention to the problem of the launch, the weight of the vessel at this point on the keel blocks being something like 15,000 tons. The launching ways, sloping gently to the water, are prepared, and cradles, fore and aft, to guide the ship, are erected with huge wooden beams, the whole being finally lubricated by tallow and train oil.

Amid acclamation the ship receives its baptism and, whether for weal or woe, takes to its element. Still helpless, though, its motive power lacking, it is afterward moored to the works wharf under a 150 ton titan crane, whereby its boilers—twenty-five of them—are lowered into the abyss of the hold and a multitude of fittings connected with the engines.

Dwarfing all else for size come next the four funnels, towering 150 feet above keel level and large enough for two tramcars to be drawn through abreast. These are fixed on the gigantic "uptakes," connecting with the boilers by a network of flues.

A hoist of auxiliary machinery for lighting, ventilating, pumping and steering the ship, as well as the passenger lifts, is being installed at the same time as a swarm of men work day and night on the internal decorations. Electricians encircle the ship with a girdle of light and install a

telephone and electric call service with 300 stations.

In the chart room is fitted a wonderful clock, which controls, synchronically, fifty other clocks in different parts of the ship. The lofty Marconi mast is linked up with the mysterious instruments in the wireless cabin. Then, at last, after many months of toil, comes the welcome day when the great ship, pride of her builders, sails forth upon its trial trip.—London Answers.

Missionary—Why do you look at me so intently? Cannibal—I am the food inspector.—Judge.

First Waiter—George, that customer you served is a foreign count.

Second Waiter—I'm not surprised. He soon spotted the mistakes I made in his bill.—London Opinion.

"Is she good to her children?" "Very. I've known her to stay home from her afternoon card club to take care of them."—Detroit Free Press.

Yes, swat the fly, but don't forget When you are waging strife To swat the garbage and the filth That give the critter life.—Cincinnati Enquirer.

He—I understand that Mrs. Lux gets \$25,000 a year in pin money. She—Mercy! What is her husband's business? He—Her husband is dead. He left a pin factory.—Boston Transcript.

Miss Goodley—Miss Bloomer seems to keep her youth still.

Miss Chellus—Well, she keeps her age quiet.—Catholic Standard and Times.

### Stones of Ancient Egypt.

A deposit of "peridots" has recently been discovered in Alexandria within a stone's throw of where the Cleopatra's Needle now in Central park, New York, once stood.

These stones, which are amber in color, for many years have been found in large quantities in upper Egypt, but never before in this section of the country. The finder has secured a concession to work the ground and has uncovered several thousands of these stones at a depth not greater than ten feet. It is believed that the peridots were buried in the foundations of houses of the ancient Egyptians and in tombs as an omen of luck.

The stones now found are estimated to have been buried for over 1,500 years. Their value is not great, the price of the stone of the average weight of 3 carats being \$1.—Consular Report.

### Danger of Chewing Toothpicks.

The attention of the medical fraternity of the country has recently been called to the dangers resulting from the chewing of wooden toothpicks through the serious illness of a hotel keeper in Michigan, who developed alarming symptoms. The physician in attendance found that his patient was addicted to the habit of chewing toothpicks, and it was subsequently learned that on the day he was stricken with his peculiar symptoms he had swallowed portions of several of the little slivers of wood, one of which was almost an entire toothpick.

### American and British Tools.

In reference to the relative cost of American and British heavy machine tools the technical director of one of the leading Belgian works states that a careful calculation based on the prices paid to a well known American and a prominent English house shows the charge per kilogram for boring mills to be practically the same. He adds that on the face of it the American machine would appear to be more expensive, but the difference in price, he found, was made up by the greater weight in the American tool.

### Counting With Air Blast.

A novel device for counting passengers that pass through the gates at a railroad station is about to be installed in Pittsburgh. The principal feature consists of a blast of compressed air, which the body of the person going through the gates obstructs and thereby causes it to register.

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## DOGS OF ALASKA.

A Story That Illustrates Their Wonderful Intelligence.

Dogs on the trail often display intelligence that seems almost human. On one occasion I remember I was driving a team of dogs down the Yukon river and had one dog in the team called Tommy, who was a good dog in his way, but who showed a strong dislike to being harnessed—to such an extent that in the morning, when all the other dogs were hitched to the sleigh, Tommy would hide himself under a cabin or bury himself in the snow.

This continued for several mornings, and beating him seemed to have no effect. One morning, however, the team had been standing in the cold waiting for Master Tommy. I finally discovered him hiding under the roots of a tree, and as soon as I came in sight, dragging the dog, the entire team, moved by a common impulse, bounded toward me and at once administered a terrible thrashing to Tommy.

I finally rescued him from his angry companions, and after that Tommy was always the first to put his head in the collar in answer to my whistle.—Wide World Magazine.

### The Ink Bag Squid.

When the squid is alarmed the ink bag that connects with the siphon opens its valve and a cloud of black fluid is ejected into the water, where it becomes quickly diffused, forming an effectual bar to pursuit. The squids also have a faculty of changing their color with great rapidity, and when laboring under great excitement waves of color seem to pass over them in quick succession. Their motions are extremely rapid, darting along with the velocity of light, now rushing into a school of small fry tail first, turning quickly to seize a victim and press it against the birdlike beak, where, by making triangular nips, the vertebrae is generally instantly severed. It is interesting to note that the bite is always in the same place—the neck.—Charles Frederick Holder.

### Eton and Harrow.

One of the Eton and Harrow school cricket matches recalls an amusing incident. Eton had a monotonous series of wins for some years, and one day the Harrow captain received the following:

O ye boys of Harrow school,  
Of cricket ye have no knowledge!  
It is not cricket, but the fool,  
You play against Eton college.

The Harrow school poet was hunted out and commanded to send a fitting reply. This clever response made him famous:

If, as you say, we play the fool,  
No wonder we were beaten,  
For at that game no other school  
Could e'er compete with Eton.

### Aliens in Old London.

Here is a curious report of the aliens in London in the year 1567: "There being a great increase of foreigners in the city, her majesty ordered the lord mayor to take the name, quality and profession of all strangers residing within the city of London." The list was headed by the item, "Scots, 40." Other nations were represented by "French, 428; Spaniards and Portuguese, 45; Italians, 140; Dutch, 2,030; Burgundians, 44; Danes, 2; Liegeois, 1."

### Her Costume.

"Marie," asked the star of her maid, gazing perplexedly at her reflection in the mirror, "what was I about to do—step into the bathtub or go on the stage?"

Marie shrugged her shoulders. "How can I tell? Mademoiselle is dressed for either."—Judge.

### Making Good.

The Guest—When I asked you if you had given me a quiet room you said that after 9 o'clock I could hear a pin drop, and now I find it's right over a bowling alley. The Night Clerk—Well, can't you hear 'em drop?—Exchange.

### Paw Knew.

Willie—Paw, what is a telling situation? Paw—Any occasion when two or more women meet.—Cincinnati Enquirer.

Labor to keep alive in your breast that little spark of celestial fire called conscience.—George Washington.

*Bake!*

**C**OULD your bake day be made a little easier? Very likely it could. Read this signed, sincere truth and judge for yourself:

Easy bakeday:

Regal Flour readily yields the best quality and the utmost quantity of bread per barrel. No flour in the world yields more per barrel. The loaves it bakes are white and light. Its pastry is deliciously flaky.

Guarantee:

Your first bakeday will tell if we exaggerate or not. If we have, in your judgment, your dealer will gladly return your money. We, in turn, must pay him back. Unless you are pleased we lose. Isn't that fair? Remember—Regal.

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