### Predicts Musical Lighthouses That Will Sing to Sailors

Talking lighthouses to tell sailors off and made audible. The beam from sailes out at sea just which lighthouse a revolving lighthouse, for example, they are watching or even to enter. tain these passing mariners with news of the day or weather forecasts or mond. Virginia. The secret, Mr. Caldwell said, is the modern process by
which music, speech or any other
sound may be "modulated" on a light
beam much as radio programs are
nition of lights by flashes requires sent out on the beams of radio waves considerable practice. It might be from a broadcasting station. To the easier, Mr. Caldwell believes, to have eye such a music-carrying beam looks each lighthouse identify itself by a quite as usual but if it is allowed to musical note or even by spoken words fall on a photo-electric cell, properly although the former might require arranged with vacuum tube amplifiers chip's captains to possess musical ears and other apparatus, the sound mes- in addition to the manifold qualifier sage on the light beam may be picked tions already necessary for that job.

whenever its rays fall on a small photo-electric cell mounted on a ship's bridge. Even the captain in his cabin the latest song and dance hits, were thus would know, by the distinctive predicted by O. H. Caldwell, former musical note of the beam, which light-linited States Radio Commissioner and honse of several along a coast was now editor of Electronics, in a recent then in sight. Such lighthouses now address to the Virginia Section of the are distinguished by color or by the American Chemical Society in Rich- number and arrangement of flashes a

### Russia Also Has A Family of Smiths

By Helen Christine Bennett McCall's special representative

In America we have one family name that crosses all boundaries. It is the name of Smith. It may be knew there must be its equivalent in Russia. When asked, smiles came at of house room. noce to the faces of Russian women.

"Of course we have such a name. In a "model" six-family house. Two

born in wedlock or out, are legitimate, ing.

She may do anything a mon may do Yet many women of those classes without stigme. She is free as no have found themselves under the new woman in the world has ever been conditions. Listen, for instance, to free—as man is free.

that marks the member of the Comthat marks the member of the Communist Party, is a high official, and
born baby lay in a hole in the brick
the woman with her, in a drab gray, is
wall. There was a little table, a chair, the woman with her, in a drab gray, is wall. There was a a factory manager. Behind them are and that was all. two doctors, a indee, and a "superior" "They must have cooked on another soldier" (officer) in uniform. There porter's stove, for they had none, are in Russia women soldiers with a Now nobody lives like that. Next to rank equal to that of a general. All me in my apartment is a charwoman

But If we want to know the more rypical Mrs. Smith of Russia, we must push and works in a factory. She has go to the factories. At the Melangi two winter coats, blankets, a good Combinat, a textile factory at Ivan-body two works are the melangi bed. Her husband has made a radio.

When the same was to know the more husband works in a factory. She has good two winter coats, blankets, a good bed. Her husband has made a radio. workers, Martha Smith—Marfa Ivan—she was taught to care for it. This off—stands before a great spinning machine. Seven hours a day she known ten years ago. 'y husband watches the spindles. The week is five days.

In the days was a revolutionist. Now I have learned to believe."

"I get the children ready for school before I come to the factory," she said. "No, I give them no breakfast -that is at the school. My shift begins at ten. Pieter and Lydia stay by the school two hours after my work, that I may buy for the house. Dinner It is at the school. Mine is here, at the factory-My breakfast also. My husband, he eats with me here. husband, he eats with me here. At evening we make supper at home. At night? Now—"her eyes sparkled—"I go three time a week to the class. dearn to read and write. The chil-dren? The sleep. If my husband goes, my neighbor listens."

learn how to run the government."

María is learning. To help her, the government has shortened her working hours, served her children

We should count time by heart through. If orced to wait.

We should count time by heart through. If orced to wait.

Who thinks most, feels the noblest, acts the best,

Life's but a means unto an end; that free meals at school, and given her end and her husband meals at low prices Beginning, mean, and end to all and ner nusuanu meats at low prices at the factory. As a worker, Marfa actually receives much more than the so rubles a month she is paid at the control of the summit of each mountaing the control of the c factory. She and her husband have food cards, clothing cards, cards for Worship thou God. Keep thy spirit railways tickets at less than the ticket for sweets, and through the factory sie may buy tickets to theatres, cincmas, concerts, at much less than box-

looks after the health of the workers. It matters not then what thou fear If I am sick," said Marfa, "the doctor

workers in Russia? Way should they be preferred citizens? There is justhe in the question. Preferment for any class is far from a Communistic ideal of share and share alike. The Soviet government is frank in its

Russia," said one official. "We are This gives the plane the necessary Russia, said one omcial. We are this gives the plane the necessary moisture to keep it in good health. You will be surprised how quickly the dictatorship of the proletariat, of the pans dry out. Refill them often. workers. It is a transition period and will not last. It is the first essen-

little was left for them that they ness and lower death rates.

lived unspeakably: joy for them was nothing but vodka. There is a pror-erb—'Work loves a fool.' To do as little as possible was a creed of self-preservation. Then came the war, revolution, famine. If we were to survive, it must be through a new idea of work. The Soviet government created a nobility of industrial workers

and Russians began to work."

Despite the money which has been borne by the socially elite or the weman who goes out by the day. We
trom lack of one of the greatest of health assets-a sufficient allowand

Russia it is Ivanoff." It is the Smiths

the Ivanoffs of Russia who tell the
story of the new life.—The Editor of
"McCall's."

One of the most revolutionary changes brought about by the Saylets

changes brought about by the Saylets

"model" six-family house. Two
bedrooms, one kitchen, one washroom (sink and toilet, no bath). In
one room, spic and span, a single bed.
a cot, one small table, two chairs,
changes brought about by the Saylets changes brought about by the Soviets rugs on the floor. María and her hushas been the freeing of woman to an band and their two children slept in extent not equaled in any country in that room. The second bedroom is the world. In Russia today woman willing rented by Maria to a married may vote and hold office with none couple who share with her the small of the discriminations found in other kitchen. Next door are eight people! countries. She has equal sex rights Yet Marfa and her neighbors do not countries. She has equal sex rights Yet Maria and her neighbors to not and privileges; she may marry and feel crowded. It is the remnant of divorce at will; she has equal rights the aristocracy and the bourgeoisis in her children and all her children, who suffer in this terrific overcrowd-

free—as man is free.

When you first arrive in one of the great cities of Russia and look said. "But now that this thing has at the people on the streets, you come, I am happier than ever before, search in vain for the smart, well-dressed men and women you are achiad an apartment of 14 rooms for customed to see on the North American continent. The Smiths who pass you wear the clothes of workers. you wear the clothes of workers, the czar I was not permitted to place they are comfortable and useful tice. I studied languages, I lived clothes, but there is nothing luxuri abroad. But never did I feel right. There were four porters in our apartous about them. Let us look at the There were four porters in our apart-women. The one just passing, dressed in khaki shirt and knickers, is the had one room, dark, unheated. There oreman of a construction gagn. The were his wife, a half-grown son, and a older woman, with the red kerchief new baby. There was one narrow cot.

Her work is to sweep and scrub the flags at one of the big stores. Her

Such intelligent, cultivated wome in Russia today go forward, not seeing clearly the future for themselves and their children, but willing to go on and work, because justice is nearer than before.—"The Reader's Digest."

#### Life

Life's more than breath and the quick round of blood; It is a great spirit and a busy heart, scarce do live. . . . We live in deeds,

thoughts, not breaths, In feeling, not in figures on a dial, "Every cook," insisted Lenin, "must We should count time by heart throbs.

Of virtue. Think on

office prices. As she will cagerly tell Ever. Count o'er the rosary of truth; you, there is much more.

At almost every factory a doctor proven wise. and deeds

will care for me. Pay? No-I am a Boldly and wisely in that light thou hast:

Why all this fuss about factory There is a hand above will help thee -By Philip James Bailey.

#### Piano Health

If your piano sits near either radiator of a steam through the room, keep a couple of We have no Communism yet in pie tins under the plane full of water.

tial step toward Communism."

"Is is essential." These are the words of a woman of the intellimarvellous flesh-and-blood machines. words of a woman of the intelli-gentsia. "You must understand that for centuries what the Russian work-ers carned was the property of the czar, the nobility, or the church. So date factory, there would be less sick-



No chance of this modern incubator failing. With capacity of more than 1,000 eggs, this new revolving incubator was one of features of Les Angeles poultry show.

#### Latest Addition To Army of Robots

Electrical Device Now Speeds the Handling of Telegrams Dictated Over 'Phone

An addition was recently made to oped and put into service in the last should be restor few years. Its function is to speed however slight. are dictated over the telephone, and it performs this function so efficiently lant giving temporary relief. They that, on the average, only one second passes from the time an incoming rich red blood which imparts the are dictated over the telephone, and telephone call reaches the device to

in which a person asks for Western Union are handled by this machine. The telephone operator connects the party desiring to send the telegram with the receiving station of the Western Union. There the call is handled by the new receiving unit, which can connect any one of the 120 incoming trunk lines with any of the 110 operators who can

ordinary girl who is to take down his message

and forward it.

A visitor to the Company's new building would see no sign of the com-plicated machinery which is helping the girls there to handle the calls. clamped on and their transmitters hung ready, taking down the telegrams as they came over the wires The robot is on the floor above. I consists of a mass of wires, rotary switches, relays, protective devices, timing circuits, etc., all mounted on tall frames.

how many of the operators are busy and whether any calla are being

nothing can equal Baby's Own Tab-lets. The Tablets are a mild laxative that will keep the little one's stomach and bowels working regularly. It is a recognized fact that where the stomach and bowels are in good order that colds will not exist; that the health of the little one will be good and that he will thrive and be happy and good-natured. The Tablets ar sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams Medicine Co., Brockville, Ont.

### A Motorist's Paradise

Leipzig, Germany.—Motorists who iolate the ordinance against parking in front of the Gewandhaus during concerts now find, when they return to their cars not a summons to court but a note reading:

"New regulations govern the driving up to, leaving or parking in front of the Gewandhaus. Your car was parked today in violation of these reg-

# Danger from Colds

hould realize that a majority of the troubles she has to fear have their origin in what are known as common colds. Each attack lowers her vitality and reduces resistance to disease. At this season of the year every wo man should see that her blood is corps of robots which the New toned up to meet the rigors of the York Telephone Company has developed and put into service in the last should be restored after any cold up the service given to telegrams that liams' Pink Pills are a reliable tonic.

glow of health; steadies the nerves, the time when a typist answers the improves the appetite and digestion call, ready to take down the telegram, and make the users capable of with Ail New York City telephone calls standing the rigors of our Fall and Winter months. They are sold by medicine dealers or by mail at 50 cents a box from the Dr. Williams Medicine Co., Brockville, Ont.

#### Cottonseed Meal Found

Excellent Food for Trout Ithaca, N.Y.,-Cottonseed meal, long an accepted livestock feed, Las been work at one time. In other words, found an effective food for 152t, rethis unit must select from the 110 ports Professor C. M. McCay, of the telephones in the station one which New York State College of Agriculdoes not happen to be in use, and ture. Professor McCay, working at connect it with the trunk line on Cornell in co-operation with the Con Professor McCay, working at which the call has come in. If all necticut state fish hatchery at Burthe telephone operators are busy, it lington, Conn., also has found that "stores" the call.

The operator knows when a call dry buttermilk are excellent trout is on her wire because she hears feeds. A half million dollars could what is known as an "audible"—a be saved annually if the various fish tone like that which is heard on the and game commissions would make dial telephone. She im use of the recent discoveries, he says

mediately says "Western Union" and! The cottonseed meal is not fed proceeds to type tithe telegram on alone but is mixed in equal parts with the noiseless typewriter which is on dry skim milk and a good fish meal her desk. What the device does, With the newer feeds Professor Mc therefore, is to cut down the time re- Cay finds that the trout is more effi-quired to connect the party with a cient than the pig in converting feed

In contrast to cottonseed meal, lin seed oil meal, another livestock feed, is found to poison brook trout. The linseed meal kills the fish in a few weeks, although they are capable of All he would see would be groups of living without any food for several girls sitting at desks, their head-sets months.

#### Excavating of Old Fort

Reveals Roman Past to light during excavation work on gow Archaeological Society. It was hoped to complete the excavations next year, Mr. Clarke added. The fort had been the sixth of the Antonine Wall forts from the west end of the

During the year a large outer sy Against Colds tem of defenses had been discovered inclosing an area of 15 acres, apparently anterior to both the fort and the wall. Neither the period of this sys-To guard the baby against colds tem nor its relation to the smaller fort were yet certain. objects in pottery, a coin of Galba nd several interesting iron articles had been found

## Sightless Author Acts in Own Play

Paris-A play written by a blind man in which he acts with another blind performer is being presented at a Paris theatre. It is called "The Triumph of Will."

M. Casier is the author-actor.
"There are two classes of blind people," he said in an interview. "Those
who lost their sight in the war and those who became blind through some other misfortune. I am plead ing for the latter. It is not that the world is indifferent to them.

"But we do not wish to make our living through the charity of others You will be surprised how quickly the parked today in violation of these regulations. You will find on the back of this notice a map showing the prove that we are capable of taking that this is a machine are. If nearly the parked today in violation of these regulations. You will find on the back of this notice a map showing the prove that we are capable of taking further information is desired places. further information is desired please ing a family. We do not want peotelephone the traffic department, No.
72321, extension 257."

This method has brought so encourwe do want them to encourage us to
work. That is what I bring out in aging results and so much praise for my play and I have a right to prothe Leipzig Police Department that it pagate this idea because I am the father of seven children and work of parking ordinances generally.

#### Owl Laffs

Brushville Judge-"See here, I'm go ing to put a stop to this here hors stealing, or none of us will be safe."

Mary, Mary, quite contrary How you hem-line grows! t used to swirl above your knees, Now it nearly hides your toes.

Young Bride-"I baren't the heart to fry the eggs. They leak up at meso piteously out of sad yellow eyes."

Looking back over the years, the eems to be a woman's waist line. Hat Clerk-"A wonderful fit, old

-"Yeb, but suppose my ars get tired." A New York salesman was staying in a Texas hotel where he observed an old-fashioned roller towel.

Customer

Salesman (to man in wash room)-Say, doesn't the owner of this botel know that it's against the law of the paniment of a great deal of noise. The State of Texas to use roller towels

right enough, but I rec in that law ciple of interference as a cure is count to be found t

Flapper Motto-Better be fat in the ead than thick at the hips."

The life guards at the bathing beaches ought to make good book-keepers. They all know how to handle figures all right, all right,

A young man, who had an enormou mouth, became engaged to a girl, and ment to her father to ask his consent. Youth (smiling broadly to hide his onfusion)-"I have come to-toou for your daughter's hand. I-I-The Father-"Excuse me, but will ou close your mouth for a moment o I can se who you are?"

One thing you never hear one girl say to another any more is: don't you take a tuck in it?" "Wby

The young farmers were boasting bout the size of the vegetables they had grown. Finally one of them turn-ed to Uncle Seth: Young Farmer-"What was the big-

est thing you raised this year, Uncle Uncle Seth-"A squash."

Young Farmer-"Well, how big wa Uncle Seth (drawling)-"We never easured it, but we used the seeds for

snow shoes."

First Travelling Salesman - "Being on the road ain't what it used to be." "Second Ditto-"Naw, I've been on he road for ten years now and never and to sleep at a farmer's house yet."

Evidently the less a bathing suit oids of the female wearer the more it olds the man.

Hostess-"Would you like a sonata efore dinner?"

Her Guest (giving a start of surprise

and pleasure)—"Thank you, I had a couple on the way over here, but I think I could manage another."

There are still a great many people who simply will not let the dentists do all the looking down in the mouth.

Customer-"How much will it co b have this guy bumped off?"
Hi-Jacker—"Shucks, partner, I leave it to you. You pay me good yer gets out of it."

Little Girl Next Door-"What's the new baby at your home, Johnny, a boy or a girl? Disgusted Little Brother-"Aw, it' a girl. I saw 'em putting powder on

Horace — "You can't go out with Kate. She's a girl of rank." Manuel—"Yes, and I am as rank as

Europe Telephones Chile

One of the novel parts of the new give very clear evidence of the variety equipment is a signal board which ous periods of Roman occupation, said and 13 countries in northern and cenindicates, by names of colored lights, John Clarko at a meeting of the Glastral Europe was inaugurated by astral Europe was inaugurated by associated companies of the Interna tional Telephone and Telegraph Corporation on Dec. 19. The service is made possible in Europe through cooperation of the Germany Reichspost n Berlin.

> Care for Your Hands Cuticura Soap

## **How Women Lose** Fat In England

with Cuticura Ointment

How would you like to lose unhealthy fat that you don't need and don't want, and at the same time feel better than you have for years?

How would you like to lose year double chin and your too prominent abdomen, and at the same time make your skin so clean and clear that it will compel admiration?

How would you like to get your weight down to normal, and at the same time develop that urge for activity that makes work a pleasure and also gain in ambition and keenness of mind?

Get on the scales to-day and see how much you weigh—then get a bottle of Kruschen Salts. Take one-half teaspoonful every moming in a glass of hot water, and when you have finished the first bottle weigh yourself again.

Now you will know the pleasant way

again.

Now you will know the pleasant way to lose unsightly fat, and you'll also know that the six vitalizing salts of Kruschen have presented you with glonious health.

That's the way Englishwomen keep alim—why not you?

ISSUE No. 2-431

#### Silent Aircraft Made Possible by

New Advantage for War Craft

London.-The production of silen dreraft has at last been brought withantitude has at last been brought with-in the realm of possibility as the re-sult of many years of work by the Aeronautical Research Committee, which is summarized in a newly is-sued report Theoremically sued report. Theoretically, the silent bomber could be built if certain precautions were taken in constructing and installing the engines and the exhaust system and if a certain new

found to be fundamental in this new scheme.

Exhaust Noises Located Exhaust Noises Located

To determine how much of the exhaust noise comes from the exhaust pipe and how much through the walls of the exhaust manifold and exhaust piping, an aero-engine was run with its exhaust led into a virtually perfect

aireraft.

The only other way of silencing an engine exhaust—the way to which this report refers—is by suppressing interference with another sound of equal intensity and frequen cy and intensity will suppress each ther at any point at which they are exactly out of phase, and it is this principle which has been applied to

The exhaust noise from all eviladunequal lengths, the lengths being calculated in accordance with the ype of engine and number of revolutions a minute. A mutual cancellation

such as bombers and commercia not more than 2 per cent. Such variation from the speed for which the sil would produce a slight sound.

revolutions a minute would not make any noise, but the size would be pro-hibitive. The principle of the interference acoustic, (not aerorynamic) is invoked again, and the blades are so erranged that the noises they make

The conclusion indicated is that it would be possible to produce an almost silent airplane, but that at pre-sent it would scarcely be practicable.

taking to foreign-style dishes often accompanied by older member of the family who patronize foreign type restaurants to an increasing extent. Shanghal is a sort of grea showplace, where well-to-do Chinese from the interior come in large num bers from time to time for temporar



## ABRADOR RETRIEVERS THE World's famous Stanctory and Wintimore strain. Price reasonable. Ed. Cowell, R. 2. London, Ont. **British Studies**

Classified Advertising

Les Baux

(From The Atlantic Monthly)

Where grey crags touch the sky-

n this enchanted place

care.

flowers

mill.

small-

may dance

they glance

In the mid-air, below

star-pricked dome

slow-wheeling hours.

Down in the valley-at your will

Be shepherd, huntsman, poet;

Wha the linen figgling on the line

Or where the sunbeams shine

The rocky terrace, to and fro

Your insubstantial form may go,

Do You Know-

Your electric cord will last much

onger if you keep it suspended from

a hook instead of winding it around

If you soak an orange in hot water

the skin will come off easier and more

A teaspoonful of glycerine added to

each pint of rinsing water will make flannels and woolen blankets like

NEW HANDLES.

New handles for your percolator can

oe obtained at a small cost in any

color you want to cress up your

Spec 13-pl \$6.50 15-plate, \$7.50 Radio "A" Battery

kitchen. You can screw them in

Volt, \$5.25. 45-volt Large Heavy Duty
"B," \$2.29; Medium "B," \$1.79.
Will ship C.O.D. Satisfaction maraneed,
HAMPSON'S BATTER! WORL!
1379 Dufferin Street Toronto

ATENTS

List of "Wanted inventions" and Full Information Sent Free

THE BAMSAY CO., Dept. W

the iron when putting it away?

perfectly when you peel it?

In the cherry orchard by the water

From the blue backs of swallows, 28

Now vast as night, now infinitely

As having nothing, yet possessing all.

-Freda C. Bond.

Among the lilacs and the meadow

Lies in Exhaust Changes and New Type There is no need for rain regret.
For enry of the lives whose lot is set Propeller

while far below. Meadows, mirzeulously green. Are sunk in sleep, between Uptowering rocks, and from the cliff's sheer face White-flowering bushes grow. Should you live here, you must choose The mountain or the valley—and so For one, the other joy; too soon the when and wh

type of propeller were used.

Most of the noise made by zircraft Would have you in their customary comes from the exbaust and the propeller. Five hundred, 1,000, or more Rather, let your dwelling here. horsepower can be produced in the Be in the mind-and you are free internal engine only by the accom-Of all the range the ravished eye can see: May house you without fear propeller, whirled at high speed by this immense power, scarcely is Man Addressed—"He knows it all quieter. Yet, noises can be arranged to cut each other out and the prin-In the topmest pinnacle, where the Shall roof you through the night's Or make your home

silencer. The noise was then reduced

The kind of silencer used in cuto-mobiles is too bulky and heavy for aircraft if it is to be efficient. It also creates heavy now the company of the compan creates back pressure with loss of power, which cannot be allowed in

ilencing airplane motors.

ers is first led into a common pipe, then the pipe is divided into pipes of of sounds results.

While it is true that this method

of silencing holds good for only one engine speed, in practice aero-en-gines, particularly in large machines liners, are run at constant speed. The maximum variation in steady flight is Auto Ratio Ham 3973 encing system was designed only

Propeller noises can be eliminated by running the airscrew so slowly that the frequency of the vibrations it produces is too low to be audible. A four-blade propeller run 2: 300

cancel out. The blades are arranged in the form of an "X" at intervals of 45 and 135 degree.

Chinese Like Foreign Dishes The younger generation of Chinese, their frequen attendance at dinner and tea dances in the bal of large modern Shanghal hotels, or in the numerous cases, are beverages, including coffee, and are -Telephone service be- visits, either on business or for the purpose of seeing the wonders of the modern world as developed so far



Be Hoodwinked.

Be Hoodwinked.

Miss E. Thomson, of Clapham, writes:—"I find that Carter's Little Liver Pills will do more to keep the complexion clear, and the skin free from blemishes, than all the face creams I have used. I found the real cause of face blemishes was usually, due to liver and stomach troubles. My druggist recommended them as a specific for stimulating the liver and expelling the constipation poisons from the system."

Take Carter's Little Liver Pills for sick headache and indigestion. All druggists 25¢ and 75¢ red pkgs.



W HAT most people call indiges neutralizes many times its volume tion is usually excess acid in the stomach. Food has soured. The Instant remedy is an alkali which Once you learn this perfect way neutralizes acids. But don't use you'll never deal in any other crude helps. Use what your doctor would advise.

of Magnesia. For the 50 years since its invention, it has remained standard with physicians. You will find nothing else so quick in One tasteless spoonful in water stores sell it-50c.

in acid. The results are immediate with no harmful after-effects. manner with the headaches, gas, ould advise.

bloating, nausee, diziness, indigention, billousness, etc., due to an over-acid stomach and howels Be sure to get genuine Phillips'. It is always a liquid: never made in nd nothing else so quick in tablet form. Look for the name oct, so harmless, so efficient. Phillips on the bottle. All drug-