

ence and parents now is better than the Music is a fine mental recently made in one s found that children I considerably higher es than those who did

young musicians is he boy or girl band ich the child may put home and playing for nent, he is missing a learn to work with creat masterpieces. It each member of the ace in the group, to come in at just the t exactly the moment nperament, sulks and place in the band and w to inculcate these instructions. ationed as one of the

g to play an instru-er of the school band. ng must be insisted recommend a wind th the undeveloped adies the nerves and pils who tend to be l of scholarship connum for passing is

the school band fer contest like the one imulus is often effeces up to the mark as to make the football ack team." public school music ment of the depart-

the National Educaof the representative tems throughout the ecent Dallas cenven-

usion of music in the with the other basic th the growing comattention must be nusic offers possibililized, for developing things of life. We. l administrative offiore equitable adjust-onal program, involv-

nediate extension of hools, in the belief ll so greatly increase ork and so greatly es now existing be-tion. We recommend Study for Music in by the Music Super-

dequate program of ion should include iven to other basic sed music study care school; moreover. he high schools as a d graduation should tion of its value by ns of higher educa-that the department

great interest manird making music a ion, we recomn nue to receive the of superintendence assion groups of its

ndy of present prac-

## Beware of Poor Neutralization

#### Squeals and Poor Quality Among Ills of Maladjustment.

A neutralized receiver, unless it is carefully adjusted, can be less efficient than one in which neutralization is not employed. There are three chief ills of improper neutralization, ac cording to an article in the Radio Broadcast Magazine.

"The first and most obvious manifestation of incorrect adjustment of the neutralizing device is oscillation in some or all of the radio-frequency circuits," reads this article. "These oscillations, as a general rule, become more severe as the frequency is increased, and a loud squeal or whistle will be heard as the tuning controls are adjusted to receive some station that is transmitting.

"Such an effect will make it difficult for the user of the receiver to obtain satisfactory reception and the oscillations will be radiated from the antenna attached to the receiver and cause interference on other receivers located in the neighborhood. Such oscillations can be prevented by cerrect adjustment, and it is essential that the proper setting be determined in order to make it possible to obtain

best results from the receiver.
"A second detrimental effect of maladjustment of the neutralizers is poor quality, which is generally due to the existence of too much regeneration. The quality, under these conditions, will generally sound drummy, indicating that the various frequencies in the carrier are being unequally amplified by the radio-frequency amplifiers. To preserve good quality, the radio-frequency amplifiers must amplify without distortion a band of frequencies extending about 5,000 cycles above and 5,000 cycles below the carrier frequency, and this condition does not exist unless proper neutralization is obtained.

"Another effect of improper neutralization," says Radio Broadcast, is to cause one or more of the tuned circuits in a single-control receiver to be thrown out of synchronism so that the set loses a great deal of its sensitivity, and as a result it is not pessible to tune-in distant stations with satisfactory volume. These three mafor effects of improper neutralization indicate how essential it is that neu tralization be always carefully and completely accomplished."

#### May Teach English by Radio to Filipinos

Radio may solve the long-standing problem of a common language, which is of first importance to Filipinos and to the United States. From the inception of the American regime English has been put forward in the schools and in the press to be the people's common language-since they speak some 67 Malay dialects with sharp distinctions, making it impossible for people even of adjacent provinces to converse. But the native tongue does not accommodate itself to English readily; few American teach ers are left in the schools and the native teachers are, for the most part, ill prepared in English, so the results of their instruction are discouraging. The children recite glibly enough, but in a strange gibberish, not English. But the Radio Corporation of the Philippines recently broadcast a lesson in English diction which proved that Filipinos can acquire English by

### Battery Clamp Used for Skinning Hook-up Wire

In using the popular rubber-covered stranded hook-up wire, radio constructors usually experience considerable trouble in skinning the ends for connections. A simple tool which is very convenient for this work can be made from an ordinary large battery-connection clamp, which resembles overgrown tie-clasp. Merely file the jaws of the clamp smooth, and then cut in them, with a three-cornered file, a notch which is roughly the size of the wire.

To use the tool, simply close the jaws over the wire to be skinned, squeeze with the fingers and at the same time pull outward toward the wire's end. The edges of the notch will pare the rubber insulation off neatly without cutting any of the fine strands of wire.

# Cleaning Radio Panels

Very Simple Operation Take a bit of cheese cloth and wet it thoroughly in water. Wring out all of the water and shake on a few drops of alcohol (any kind of alcohol will do). Now wipe the panel with this cloth and the dirt and every fingerprint and every foreign substance will come off as it by magic. Wipe dry with soft cloth or chamois

and the job is done. Precaution: Be sure that this alcohol rag does not come into contact with any of the woodwork. Alcohol will tend to remove the varnish and spoil the finish on the wood. Used in the manner prescribed, it is excellent for the bakelite panel. years.

#### Radio Aids Operation

of Inland River Craft It is generally known that radio has transformed the art of navigation apon the high seas. This science is also coming into its own as an aid to the operation of craft upon inland

Maj. W. W. Parker, chief clerk of the American Engineers' office, Cincinnati, originated broadcasting of river stage reports over station WLW?

In response to a circular letter sent out by Major Parker recently to test the value of this service, the lockmasters and transportation companies operating Ohio river craft have given

enthusiastic indorsement of the value

received from this service.

River stage reports are broadcast each morning and are picked up by the lockmasters and boat captains along the Ohio river and its tributaries from a point a few miles south of Pittsburgh to Cairo, Ill. Lockmasters find this service extremely valuable. All of the fifty dams along the Ohio are movable and the reports of the rising and falling of the river enable the lockmasters to know when to raise and when to lower the dam. The dams are made of wicket, a device invented by a Frenchman and tried out in the Ohio river for the knowing what has been account first time at Davis island dam, seven miles below Pittsburgh, in 1879. When an incentive to hurry up and leave a all of the wicket sections are in position they form a barrier. When the river is rising, the dam tender goes out in a maneuvering boat, equipped with a derrick, and lowers each sec-

of through the locks. As for the steamboat captains, the reports enable them to determine the walks in the open air. stage at which they must navigate, and to know when they will go through locks and when they will go over the dam. They can sit in their cabins and compare the river stage reports with the draft of their boats. which tells them what precautions when dishes are to placed on the ice they must take to steer to the chan- to cool. They keep the dish from

tion to the bottom of the river, and

Many Ohio river craft tow a large number of barges of coal. It is difficult to maneuver such a tow under place. the best conditions. In the absence of accurate information as to river stages, the craft may be caught on a sandbar for a week or two.

The promptness of the radio information is especially appreciated by river men, as they receive the broadeasting, in many cases, several hours ahead of the printed report.

Some of the companies operating river craft have equipped all of their boats with receiving sets as the result of the river stage broadcast. Many large shippers have attested to the prove to be a wonderful step-saver as value of this service.

### Varieties of Troubles

Outside sources of interference which affect reception in a receiver are listed as follows:

Sign flashers... Induction coils. X-ray machines. Static machines. Telephone ringers. Atmospheric static. Electric street cars. Defective transformer. Regenerative receivers.

Bad contact in switches. Amateur wireless station Static produced by belts. Loose street lamp in socket. Smoke or dust precipitators. Defective street light rectifiers. Electrical mann Commercial wireless (code) station.

Leaking insulators on power cir-Overlapping of broadcasting sta-Motion picture machines using arc

Induction from high potential cir-Heterodyning of broadcasting sta-

Defective rail bends on street railway systems. Defective lightning arresters—power ircuits.

Motors and generators of the comnutator type. Arcing wires in trees and other grounded objects.

## How Sun Determines

Volume on Long Waves That the sun's activity is probably the chief factor in determining the strength of long-wave radio signals was the most important conclusion in for special radio transmission research prepared by Dr. L. W. Austin, of the bureau of standards.

In addition to the curves and tables showing the routine measurements of over the salad, or crisp lettuce. the laboratory, curves were shown in the report which indicate a close relationship between the long-wave signal strength and the changes in number of sun spots during the elevenyear sun-spot cycle, the signals increasing in strength with the increase of sun spots.

Other curves given show periodic changes in the signals during the time of the sun's rotation (twenty-six days), while others indicate a nine day period in the case of certain sta-

Some of these curves also suggest fixed active areas on the sun, which often produce increase in signal strength when they face the earth. These periodic relationships, however, are not considered as well established as the relationship of the monthly and yearly averages of sun spots and signals extending over a number of

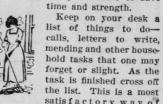
I think that I shall never see A poem lovely as a tree. A tree whose hungry mouth is

prest
Against the world's sweet flowing breast.
A tree that looks at God all day
And lifts her leafy arms to pray:
A tree that may in summer wear
A nest of robbins in her hair:
Upon whose hosen area. Upon whose bosom snow has lain;
Who intimately lives with rain.
Poems are made by fools like me,
But only God can make a tree.

—Joyce Kilmer.

#### HOUSEHOLD HELPS

If a trip to the cellar or storeroom is necessary carry a basket to save



satisfactory way of during a week or month. It is also clean slate. This method is a good one for the kitchen, too; various things are forgotten that will, with a list, keep things running smoothly.

A camp chair or stool which can be slipped under the table when not in the traffic goes over the dam instead use is a great convenience in a small kitchen. Sit down as much as pos sible when working, save your legs for

Before taking disagreeable medicine hold a piece of ice in the mouth for a moment-it dulls the sense of taste. Grease the cork of the glue bottle, then it will open easily. Keep old can rubbers to set on ice

When relining drawers with paper, use a small sticker to hold them in

A fresh blood stain may be removed by rubbing with dry starch. The starch absorbs the blood and when dry it may be rubbed out, leav-

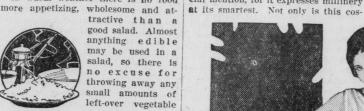
ing no mark. Anyone who has tried it knows that in housekeeping one cannot follow a schedule invariably. However the housekeeper is greatly assisted by a system which is carefully followed when possible. A slate or tablet hanging on the wall with an outline of the week's meals and extra duties will

well as time-saver. Transplant a few flowers like garden between the rows of lettuce, That Cause Interference radishes or onions. When they are pulled the plants will flourish and

A roomy market basket with a handle is a fine bed for a small child while traveling and in it may be carried its belongings. The basket may be picked up and carried without disturbing the baby or exposing him to the

Kitchen aprons made of unbleached cotton make most satisfactory aprons as they are easily kept free from stains by boiling.

"Dressy" Dressings.



or meat. When serving salad for a company dinner it need not be especially nourishing, for the menu is usually full one. Something piquant, appealing and crisp and green is most desirable. The following are a few to be served as a simple green, varied by

the different dressings: Thousand Island Dressing. - Take one-half cupful of oil, the juice of onehalf a lemon and half an orange, one teaspoonful of scraped or grated onion, three teaspoonfuls of chopped parsley, one-fourth teaspoonful of mustard, eight olives sliced, one teaonful of worcestershire sauce, onehalf cupful of mayonnaise, one-fourth teaspoonful of salt and the same of paprika. Mix the dry ingredients, was the most important conclusion in the annual report of the laboratory all together into a fruit juices, put all together into a fruit jar. Adjust the rubber and top and shake until the mixture is smooth. Set in the icebox to keep cold until the time comes to serve. Another shaking and pour

> A good way to serve French dressing, which is the simplest of all salad dressings, is to put the ingredients in a bottle, set in the ice chest after shaking well, then shake again before serving. The dressing is usually liked with three parts of oil to one of lemon juice, a pinch of salt and sugar, cayenne and dry mustard if liked. One may vary this recipe by the addition of different seasonings, and foods.

> East Indian Dressing. — Add one-fourth teaspoonful of curry powder and one-third of a cupful of chutney or chopped pickle to one cupful of mayonnaise or French dressing.

> Roquefort Cheese Dressing. - Grate or crumble a two-inch square of Roquefort cheese into a cupful of French dressing. Serve on lettuce or

Nellie Maxwell

### WEE PRINT WITH PLAIN POPULAR; CAPES AND DRAPES CONSIDERED

THOSE tiny print silks which came early in the season, and according to fashion's prophecy, will stay late, have completely captured the fancy of the fashionable world. Not only are they charming made up alone, forming their own self-trim, but they have such a companionable way of combining with other silks. These tiny flower-patterned prints seem to take on even more color glory, used

with solid navies and blacks. Compose costumes, such as here pictured showing wee print with plain, have gained a place of distinction in the season's styles. Another interest-ing point about the little patterned silks is that they plait so effectively. Note that the skirt of the frock illus-

ing introduction of metal embellishment. The two-piece frock of velver print, consisting of blouse and skirt, is among newest styles.

Very latest wrinkle is to match one's sheerest sleeveless frock with a cape. If the gown be of chiffor or georgette, its cape is usually full length and finely plaited like the one in the picture. This one is detachable being caught to the neckline across the back with invisible snaps. There it is, ready to enwrap milady at her wish, but until called upon to do service, it is content to flutter and float and sway with enchanting grace.

To effectively wear one of these diaphanous capes is quite an art in



A DISTINCTIVE COMPOSE

trated is neatly plaited, its hemline | about one's shoulders, "concealing yet asters, snapdragon or cosmos in the adopting a narrow border of the solid silk. This solid border treatment is being much featured this season.

The blouse is navy, of course, for this color is at present outstanding. The drape which appears at the left is really a huge kerchief of the fig-ured silk which may be worn in the pocket as shown or knotted about the shoulders at the sweet will of its wearer. That's the way of sports frocks this season, most of them have a matching, dashing silk square some-where in sight if not loosely tied about the neck and shoulders.

The large navy milan hat which accompanies this costume deserves spe-In warm weather there is no food cial mention, for it expresses millinery

revealing" the unsleeved arm. Then, too, a cape, such as here shown, seems to serve as a background against which the slenderized lines of the dress are accented.

Apropos of the slender silhouette, the newest trick of fashion is to gather all superfluity of material into a single side drape (see picture), leaving unmolested the svelte, slim figure so coveted by women these days.

Of all important sheer fabrics none is more so than white georgette, especially for evening wear. It is this material which is chosen for the development of the winsome ensemble in this illustration.

But to return to the subject of capes, the vogue of matching them



SHEER ENSEMBLE COSTUME

tume timely for immediate wear, but | to frocks extends to daytime modes it will serve admirably throughout the soon-to-be autumn days. As to prints, the future promise

revelations in the way of handsome patterned velvets with wee figures somewhat after the silks which are at this moment so popular.

These incoming costumes of print velvet follow the system of the summer silk prints, in that they are made entirely of the figured material or of print with plain. One can readily foresee the treat in store of a handsome black or navy velvet with panels, revers and other details of the patterned weave.

Advance novelty velvets show in addition to gay colored design, a fetch-

as well, with this difference: they are considerably shorter than the evening types. They extend to the hips and are just little straight plaited affairs, which gather into a ribbon neckband tying in a bow with streamers at the front.

If you have a navy or a beige georgette frock with a plaited skirt or trimmed in plaitings match it with a short plaited cape and the result will be a handsome ensemble. Very smart, too, is a cape-suit of crepe satin, escostume cape shaws a variation, in that it is cut circular.

JULIA BOTTOMLEY. (@. 1927, by Western Newspaper Union.)

## Machine That Talks

astonishing experiment of cor tongue, and making them Ltter words. foot bellows, has been successfully carlish barrister, who since the war has devoted himself to phonetic experican literally talk with his fingersnot after the familiar fashion of the deaf mutes, but by making them take the place of the ordinary vocal organs. Sir Richard has developed an as tonishingly new theory of the origin of speech. Primitive man, he holds, began with gesture as his sole lan guage. Later on he found it was convenient to imitate the gestures of his hands by using lips, tongue and palate. Then he accompanied these by cries, and so speech gradually developed .- The Forum.

#### The Claque

Stella Mayhew was talking about other days on Broadway.

ever saw my name in lights," said the veteran. "I was coming down Broadway in a horse-drawn cab, and suddenly saw my name in huge letters on top of the building where the Anheuser-Busch moving sign was for so long. I got right up in that hack and applauded myself."—Variety.

"Mother," said little Bobby, "have you any cake?" "No," replied mother, "but I will bake one tomorrow." After deep study Bobby said:

He-Darling, you are the eighth wonder of the world. She (indignantly)-And who, may I ask, are the other seven?-Life.

Is Recent Invention

structing artificial lips, palate and phrases, and even sentences by driving a current of air through them with a ried out by Sir Richard Paget, an Engments. It is said that Sir Richard

"I'll never forget the first time I

#### When Is Tomorrow?

#### Outclassed

"Mother, tell me when is tomorrow.

Does it come after 'soon'?"

## **Stomach Disorders**

**Green's August Flower** 

a gentle laxative, will act promptly in relief of stomach and bowel troubles, and your freedom from pain and discomfort will make you feel that life is again worth living.
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#### HANFORD'S Balsam of Myrrh For Cuts, Burns, Bruises, Sores



## W. N. U., PITTSBURGH, NO. 33--1927.

Watch Winds Itself A wristlet watch that never requires winding-one is said to have gone for three years-has been invented by a Bolton (England) watchmaker. Inside is a small weight or balance; with each movement of the wrist the balance swings and gives a turn to the spring. Although half an hour's wear is sufficient to wind the spring fully there is an arrangement to guard against overwinding. If put down for 40 hours the watch will run down, but upon being put back on the wrist it

### Well Deserved

will start ticking again.

Father-The man who marries my daughter will get a prize. Ardent Suitor-May I see it, please?

The new Prince Albert National park in Saskatchewan consists of 1.300 square miles of primitive forest and



and Soothing Syrups, especially prepared for Infants in arms and Children all ages. To avoid imitations, always look for the signature of Chart Hetchere.



Pa Buzz will get something soon FLIT spray clears your home of mosquitoes and flies. It also kills bed bugs, roaches, ants, and their eggs. Fatal to insects but harmless to





## Childhood's Lessons affect the whole life

Teach your children to use Cuticura Soap daily to keep the skin clear. Soothe and heal rashes, eczemas and other irritations with Cuticura Ointment. Shampoo with Cuticura Soap to keep the scalp in a healthy, hairgrowing condition.

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Cuticura Shaving Stick 25c.



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