

Use of Wave Trap

Part Is Serviceable Even in Loop Receiver, Radio Expert Says.

By JAMES H. CARROLL, Associate, Institute of Radio Engineers, in Radio World.

From all quarters of the compass come inquiries as to wave traps and their uses and as to what is the best to death, in which case they became type of trap to use for good results. the partakers of meat. It is evident, Evidently there is a great interest in then, that the inventor of the wave this handy little apparatus, especially trap modeled it upon this efficient de-under present conditions; and even vice, taking a hole, or a pit, as it when the air is eventually cleared a wave trap still will be a good thing to guising it with a solenoid winding and have around. Take as an example the solenoid

wave trap, as represented by the howls for mercy. "WEB" model.

There are two main reasons theo-retically for the success of this kind of trap and one is because of the solenoid winding which enables the electrical currents flowing through it to establish a more evenly balanced set of lines of force which concentrate themselves in the center of the tubing and upon the concentration point of the variable condenser. In this type of wave trap it has been discovered that this makes for efficiency and has a great deal to do with tuning.

Micrometer adjustment of interference elimination is necessary for rejector circuits. Therefore, when using a wave trap of this variety the condenser plates will be pressed very slowly or the operator will not trap out the unwanted station. This is a point in favor of such a trap.

Wave traps of this type can be effectively used in many different places. If you have been unfortunate in obtaining good results with a wave trap you may not have used it in the right place. In other words, you may have inserted it in your aerial circuit when it would give you the best results in your ground circuit or so other place, instead.

In the Aerial Circuit. Let us first try the aerial circuit. Disconnect the aerial from your set and connect it to one of the posts on your wave trap. With a short wire connect the other post of the trap to the aerial post of your set from whence you previously removed the aerial. This is the simplest and most usual use of a wave trap, and it is a good one, but under certain conditions it will not prove the most effective. If

by this method we do not succeed in perfectly eliminating an offending station on the lower wave lengths let us try inserting our trap in the ground circuit. This is done in the

ame way except that we substitute the ground wire for the aerial wire. This means is especially recommended for efficient low wave elimination but reports show that it also works equally well with the highest wave lengths and that also by this method additional stations have been tuned with a wave trap of the design we are

discussing Now, if we are working with a loop, we can connect our trap in the grid circuit, the most approved method of eliminating interference in such a an efficient one.-Radio News. case and the only way of using a wave trap with a loop set. First lo cate your grid wire that goes to the in your set.

as we haven't the slightest idea as to what becomes of the invading tation; our idea is that perhaps, getting its nose or its tail pinched in the trap, it tears away on the trail of other prey in the form of sets not protected by a beneficent wave trap. The earliest form of trap of any kind known to history was a pit dug in the for Good Results ground by the caveman in front of his cave apartment. This was covered by twigs, branches and grasses so that it looked like a solid surface. Along came the marauding mammoth, in search of meat to vary his vegetarian

valls in a futile effort to escape

Well, Junior, you have staggered us

diet, and tumbled in with a crash that shook the row of caves and dislocated every aerial in miles. Then, all that remained for Mr. Caveman and his tribe was to squat around the trap and sing and howl in chorus until they sang the threshing behemoth vice, taking a hole, or a pit, as it were, enclosing it in bakelite, disadding the pinching condenser that squeezes the invading station until it

and water.

An Easily Made Coil,

Cheap and Efficient Quite often in his experimenting a radio fan needs a coll that is easily made, cheap and efficient. The mate-rials needed for this coil are an ordinary drinking glass, some No. 24 D. S. C. wire, a roll of tape, four Fahnestock clips and a piece of thin wood. such as may be obtained from a cigar

The wood should be cut to 11/4 by 41/2 inches and then placed across the middle of the open end of the tumbler. Double a piece of the tape and wrap it





GLASS

Coll Wound on Tumbler Will Greatly Reduce Losses. tightly across the glass and obliquely

over the wood. Then double another piece of tape and place it over the into four equal parts. Bend the clips in the middle and round them a little of the glass. Slip the ends of the clips under the tape and to their end solder yard of the plain. the wire. The coil can then he mount. ed by means of holes drilled in the

rooden base. If the wire is wrapped tightly around the glass and tape there will be no danger of its slipping off, and the coil will-be found to be

Used Aerial Lead Fish to Pick Up the Mess When the two-way radio apparatus failed, observers on the ground were perplexed as to how they could give instructions to occupants of an airplane during army maneuvers, says Popular Mechanics Magazine. problem was solved by tying the dispatch in a tobacco sack weighted with small stones and attaching that to a string about twenty feet long, which was held taut by two men. The pllot, informed by the panel signal to stand by for instructions, descended close enough to see what was going on. then returned presently with the radio antenna unreeled. As he ap proached the men holding the string. he throttled the engine, allowing the lead "fish" at the end of the serial to hang more nearly vertical. It caught the cord and the message was hauled into the cockpit. This method is now in general use for communication in the air corps when the radio sets do not work and the panel signal will



GINGHAM, most versatile of fab-rics, has come into popular use women pin paper to the chair and for interiors as well as for the wardthen cover a pattern for the gingham. robe. With the present peasant mode For the chair shown, which is a fairin interiors now sweeping the counsized wing chair, it required nine try, decorators are turning more and yards of gingham.

more to gingham. Some are even From skull caps to brims of tre using it as a wall covering in place of mendous width-'tis the latest capaper with great success. It is shelprice of the millinery mode. Broad lacked and can be kept clean with soap brims and short skirts, never !-- so said some of our fashionists at some

THE PATTON COURIER

From the dresser drape to the tabletime or other in the past. In presentcloth and napkins there is scarcely day modes, behold the theory dis-



SOME USES FOR GINGHAM

at this moment looking their smartest

in short-jacketed, short-skirted tail-

leurs topped with plain-banded straw hats of enormous dimensions. That's

the interesting part of these big-

brimmed hats (some quite floppy)-

they are not confined to dressy modes

Rather do they compete with entranc-

ing so-thin-you-can-see-through-them

picture types. For that matter many

of the large tailor-banded black hats

any interior decoration that lends it- | proved! Smart women of fashion are self to fabric that cannot be made from gingham. The dresser drape in the sketch may be made from any of the many beautiful colorful designs, and trimmed with plain gingham. The plains come in colors to match the predominating shade in the design. It will require about seven yards with three yards for trim. The "lazy pad," as it is called, sketched just under the dresser, is for the beach, yachting, lawn or picnic, where one may like to take a siesta in the open. It is simply made from two strips of gingham of the width re-

widths. To make the tablecloth will require one yard and a quarter of the designed gingham and three-fourths of a yard glass and wood, so that it divides them of the plain for a five-inch border. The cloth will be about forty-one inches when finished. Each napkin so that they will fit against the curve requires one-fourth of a yard of designed material and an eighth of a

of brim are either au naturelle, or else The lamp shades are made from dyed black or some lovely pastel parchment with designed gingham shade. Black velvet ribbon bands are pasted on with rubber cement. Rub- | the rule for natural or black leghorns,





JUST HUMANS

By GENE CARR

2º

A DAY WITH SAUCES If you'd make life worth fivin' Try these big things worth while: They're three, I'll sum 'em up ag'in-Jest love an' work an' smile.

A SAUCE as an accompaniment to a dish is as essential as the ordinary seasoning is indispensable to make a dish appetizing. A very ordinary dish with an appropriate sauce

has made many a chef famous and gone down in history as a worth-while achievement Certain foods are best with certain sauces. The flavor of the sauce en-

hances the flavor of the dish. A lamb roast with mint sauce is taken out of the ordinary class. Pork roast needs apple sauce to make the pork more tasty and digestible. We like turkey and cranberry, mutton with capers, veal with tomato or onion, and so on ad infinitum.

Venison, a choice dish at all times, is greatly improved with a spiced grape jelly; duck with sliced oranges or a tart jelly.

Fish of any kind is always better served with a sauce, usually of some acid variety. Oyster sauce is a great favorite with fish. Bechamel and brown sauces are also good sauces as sauce tartare and tartar sauce.

Wildfowl is especially good with-Ripe Olive Sauce. Melt four tablespoonfuls of butter

in a saucepan, add one sliced onion and cook until slightly brown. Add five and one-half tablespoonfuls of flour, a teaspoonful of salt and a little pepper. Stir to a smooth paste. Add two cupfuls of brown stock gradually and continue cooking, stirring con stantly. Cut the meat from a dozen ripe olives, cover with boiling water and cook seven minutes, then add to

Green Pepper Butter.

the sauce.



held a solemn meeting and as I seemed to be their only resource, they called me in. I was only twenty-one and the youngest man in the plant.— Arthur D. Little. TODAY :- Arthur D. Little is one of the most celebrated chemical en-gineers in the country and is the head of the largest private laboratory in the world, located at Cambridge, Mass. He left the mill referred to above soon after he became the superintendent and, after a long struggle, established himself with a large

trial chemistry, and a pioneer in paper making by the wood pulp process. (© by McClure Newspaper Syndicate.) How It Started



Oriskany celebration w men who fought in th engagement will be hone and hundreds of visito country. The events les Oriskany were these: plan to score a decisive mer of 1777 and to cr Barry St. Leger had bee

the Mohawk valley to .

join the army of General

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obstacle to St. Leger's

Schuyler, held by a for

the command of Col. Po

Marinus Willett. On Aug

before Ft. Schuyler wit

British regulars, Hessian

John Johnson, John B

notorious Walter Butle

Colonel Gansevoort had

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tionate nickname for

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Kingsland, was comman

inger. This force assemi

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4 started out, crossed

present site of the city

Whitestown on August 5.

Colonel Gansevoort to arr

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fire three cannon shots a

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He was then about eight

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By F. A. WALKER

GROWING OLD

WO things the human mind dreads

-Old Age and Death,

of men that the appearance of a gray hair and the permanent establishment of a wrinkle is looked upon as a sort of individual disgrace, an indication that something has been left undone that should have been done or something done which should not have been

done As a matter of fact, there is nothing more beautiful and nothing more interesting than attractive old age. Wisdom, which comes only with years, should then reach its highest

development. Judgment which in youth is neither sound nor trustworthy, should then clientele. He is an expert in indusbe dependable and worth while consulting.

The time to prepare for old age is before it arrives. The time to prepare for the harvest

is in the seed time, and youth is the eed time of our lives. If every young man and young wom-

are themselves transparent, but these are not as frequent as are the very elegant milans, with their velvet bows and bands. quired. All ginghams come in 32-inch Modishly banded, with either grosgrain or velvet ribbon, this is the regu-lation trim adopted by fashion for huge straw hats, such as the one pictured to the left in this group. If it isn't a milan which milady wears then it's a leghorn wide of brim or very likely one of the new paillassin straws. Leghorns which measure up to the mode's requirements as to width

or condenser. Disconnect this wire at the point of contact with the grid post of the socket. Connect it to one end of a flexible wire about two feet long. Connect another piece of flexfble wire of the same length at the place from which you disconnected the other wire and run these two wires outside your set to your wave trap, attaching one wire to one post of the trap and the other to the other post of the trap. You are now ready to eliminate interference. This meth od, even if it is a little more trouble some to try out, is well worth while because it will make any set selec-

Another Means May Be Used. Another means we may use is the aerial and ground shunt, which is one of the oldest methods known and among the most popular. All that need to be done to use this method of insulation is to run a wire from the aerial post of the set without disconnecting the aerial wire to one of the posts of the wave trap. Then run not give sufficient data. another wire from the ground post of the set to the wave trap. Although no tuning can be done with a wave trap used in this way it functions as an excellent trapping system and stations in the vicinity of the set can be dominated by this means.

Do not confuse a wave trap of this type with an apparatus such as the centralab short wave selector, which is what the name implies and not a wave trap. It fills a very definite function of its own and can be used

as the best.

While our testing was being done an effort to speak plainly, no matter and before this article was completed, how unconscious this may be. The a letter came to hand from a fan signcasual speaker, however, gives just a ing himself a Junior Radio Bug ask- normal broadcast, thus enabling the ing for practically the information radioist to make an "average" test. given in this text, and among other If the words sound "mushy" and inthings inquiring as to what became of distinct, the chances are that the bat the trapped station when it was cap- teries are not up to par. Much of this tured, probably figuring that it re-mained in the trap ramping around picking up music. Many just assume mushiness is not so often noted in and beating its waves against the that it is some new orchestral effect the aid of an upholsterer. It is simply (@, 1927, by Western Newspaper Union.)

Air Speeches Act as Tests for Receivers

It may be annoying to listen to an uninteresting lecture, but there are certain definite dividends to be de-

rived from tuning-in on one. One of the best ways to check up on the efficiency of the set is to listen-in to ome speaker and note how well the

words come through. Do not feel satisfied if the announcvery satisfactorily in conjunction with er's speech comes through in good a trap of the type we have selected shape. Announcers have a radio voice to begin with. They may be making

very effective. For a large lamp shade of about sixteen inches in depth It will require two and a quarter yards of gingham and a vard and a quarter of parchment. The strip of parchment and gingham when ready to plait is four and a half yards long.

The slip cover for the winged chair s a more difficult proposition. Still make their own slip covers without the brim. JULIA BOTTOMLEY.

HATS OF THE DRESSY TYPE

ber cement is better than glue, as it | but if the leghorn be colorful, its tallis not so apt to come through, and ored trim is either a perfect match will permit the gingham to peel off or a perfect contrast. The same apeasily in case of a mistake. The light plies to the lovely large crin capelines, shining through the parchment and so favored with sheer frocks.

gingham is beautifully softened and The leghorn hat first in this group maintains a tailored aspect, although it has been intricately worked with velvet. The hat below introduces a pastel-colored silk facing. At the top to the right in this collection of delectable summer millinery, is one of those sheer transparent affairs, which lends itself so consistently to the dressy midsummer costume. A tuile there are any number of women who flange adds to the width and grace of

three or four green peppers, remove the seeds and all the white portion. Cook in boiling water until soft. Drain and chop fine, rub through a sieve; there should be two tablespoonfuls of the pulp. Cream one-half cupful of butter and add the pulp, stirring until evenly mixed. Spread over planked fish, steaks or chops-it will enhance the flavor.

Lemon Butter.

Cream one-half cupful of butter, add emon juice-about two tablespoor fuls, drop by drop-stirring constantly This is fine for any fish mixture, lobster or crab meat. This is a delicious sauce spread over a broiled fish planked fish or cooked hot lobster.

Neccie Maxwell





DOES STARCH MAKE WHY CLOTHES STIFF?

The molecules which form the starch Are very large and thick, And so they can't escape, but cling All through the cloth, and stick. (Copyright.)

an would keep the future in mind. plan for it, think for it, study for it, old age would lose half its dread and terror and we should look forward to it as the time when we should enjoy the results of a well-arranged prep aration.

It is the old age which follows lack of this preparation that is hollow and sad, the old age which has no memories but regrets, its future gone, its past a failure.

Addison, great poet and essayist, wrote: "He who would pass the declining years of his life with honor and comfort, should when young, become old, AND REMEMBER WHEN HE IS OLD THAT HE HAS ONCE BEEN YOUNG."

We have not yet learned to keep the body from growing old. The fair ness of the skin will die. The hair will whiten and the wrinkles come. The knee will crook less willingly to of his flock. the will and the back may bend with increasing years.

But the heart, the spirit, can be kept young.

The soul never grows old else the hereafter would lose its chiefest glory. Grow old happily. Grow old gracefully, accepting nature's decrees with a willing compliance to their requirenents.

But think, as long as you may, young thoughts. Continue to learn Continue to progress. There is much in old age that is beautiful. Shut your eyes to what is not. (© by McClure Newspaper Syndicate.)

School Courses

The "6-3-3 plan" in schools is a plan of organization consisting of six grades above the kindergarten, constituting the elementary school, followed by a three-year junior high school, both the junior and the senior high school being considered in the field of secondary education. Completion of the high, school in any one of these plans is marked by the granting of a diploma of graduation.

By JEAN NEWTON

CALLING HIM THE "PASTOR"

PASTOR" is a prosaic sounding word, and one in whose story we would look for the severe flavor of early religion rather than the element of poetry. Yet such is the perseverance of language. We rarely find what we expect. And in the origin of this term as it is used today as another name for the minister, we find no

"thou shalt nots," theology but a poetic metaphor. "Pastor" is derived from the Latin

pastor," which comes from "pastum, neaning to pasture or to feed. And who would not find poetry in the term which describes the minister as one who will feed us if we will but go to him? One may presume that it is hardly necessary to explain the metaphorical reference as spiritual feeding



"W MITE FEATHER" or to "show the white feather" is an expression meaning to betray timidity or to back down or out; a sign of yielding. Some years ago a bloody fight was raging between the Indians and the settlers of the backwoods of our country. A Quaker who refused to flee saw one day a horde of Indians rushing down toward his house. Thinking to pacify them, he hurriedly set food before the savage horde, and when they had eaten the chief fastened a white feather over the door as a symbol of peace and friendship. Though many bands passed that house, none ever violated the covenant, by injuring any of its inmates or property .- Anne S. Turnquist.

(C. 1927, by Western Newspaper Union.)

officers, notably Colonels reproach him and even w him of being a coward an old commander resisted t became unbearable. Final their unjust accusations, to advance. It was more of a disord that streamed out of the kany creek the road led way of logs over a mars