### WAVELENGTH CONGESTION

By R. M. SHERRILL

(Radio Engineer)

The present arrangement of broadcasting wavelengths is utterly inadequate to provide sufficient wave bands for all of our stations. The existing channels are badly overcrowded now, and the worst part of it is that applications for new stations are constantly coming in. This congestion is particularly bad in large centres such as Chicago and New York.

Broadcasting Parliament

The British Prime Minister has

suggested the broadcasting of cer-

tain debates in both houses of Par-

It is not reasonable to expect that | are staying at home more; they are science will, in a short time, be able sitting up late at night and using to develop broadcasting to a point the electric light while they listen where stations may work on wave- to radio programs. And, as they 1. An habitual drunkard lengths which are much closer to- are at home more, they are doing 4. gether than they are now. About more cooking and baking, and thus 7. Pile the only other alternative is to ex- use more gas. tend the band of broadcasting wave- The manufacturers of gas and 10. Form of "to be"

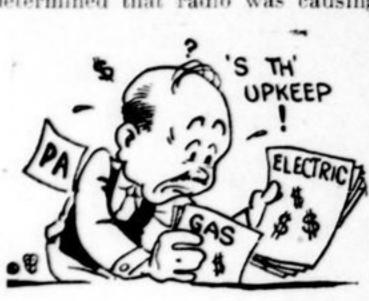
As the wavelengths above 550 isfled with the effect of radio on 13. United States of America meters are internationally used for their businesses. naval communication, they cannot be taken over by broadcasting. Thus the only possible extension can be into the lower wavelengths. Although the amateurs now occupy the waves below 200 meters, they have nearly all dropped voluntarily to waves of 150 meters and below. Thus it seems as though the most logical remedy for the present congestion is to extend the broadcasting range down to 150 meters.

Of course, most of the receivers used today will not tune low enough to pick up these stations, and the behavior of receivers at these lower waves will be quite different from what it is now. But-these difficulties will gradually work themselves

Eventually, the lower wavelength stations will have a higher status a great deal of interest among the than they do now. It is possible, British radio public, and there has on the lower waves, to transmit far- been much discussion pro and con. ther with a given amount of power. Such an innovation would greatly Also, the reception of the short help the national status of broadwave broadcasting is not bothered casting as well as bring the voting 55. so much by atmospheric interference. population in closer touch with 58. It it confidentially expected that their representatives. broadcasting below 200 meters will It has been pointed out, however, be in effect before the close of 1925. that unless the debates to be broad- 60.

#### Radio and the Gas and Light Bills

At a recent convention of the New Jersey Gas Association, it was announced that it had been definitely determined that radio was causing



a greater gas and electricity con- ularly adapted for use at sea. Their unusually high power insures that sumption in the home. Due to the variety of entertain- their warnings will be received unment offered by the radio, people der all weather conditions.

(Copyright, 1924, by The Bonnet-Brown Corporation, Chicago) RADIO QUESTIONS AND ANSWERS Mr. Sherrill will be glad to help you solve your radio problems. Write him, care of The Durham Chronicle.

age listener.

Radio Warns of Icebergs

from the dangerous icebergs. The

powered equipment is used to warn

This spring, two new patrol boats

equipped with 2KW tube transmit-

ters were added for this work. These ships, both of which have the call

of the presence of the bergs.

meter for this purpose, as the volt- is then adjusted until the hum is meter will not indicate that the at a minimum. battery is low until it is almost completely discharged.

B. C. S. says: "I am trying to use corroding so fast?" alternating current for heating the Ans .- About all that you can do filaments of my two stage A. F. am- is to clean them and the battery plifier. What is the method of get- terminals frequently. It will help ting rid of the AC hum that results?" some to keep the clips and the bat-Ans.-Connect a potentiometer tery terminals covered with vaseacross your AC filament supply, line.

### POISON IVY

move all traces of its virulent oil in leaf mold or rich soil, astonishby freely lathering the skin with ingly long strands of rootstocks can strong soap, and rinsing under hot, be dragged out intact. This is most running, or constantly changed safely and easily done before spring water. Inflammation resulting from unsuspected exposure, or neglect of the above precautions, may be relieved by applying solutions of baking soda or Epsom salts, one or two teaspoonfuls to a cup of water, and bandaging. Various elaborate treatments are offered which are seldom

Half the fun of loafing is knowing.—Columbia Record.

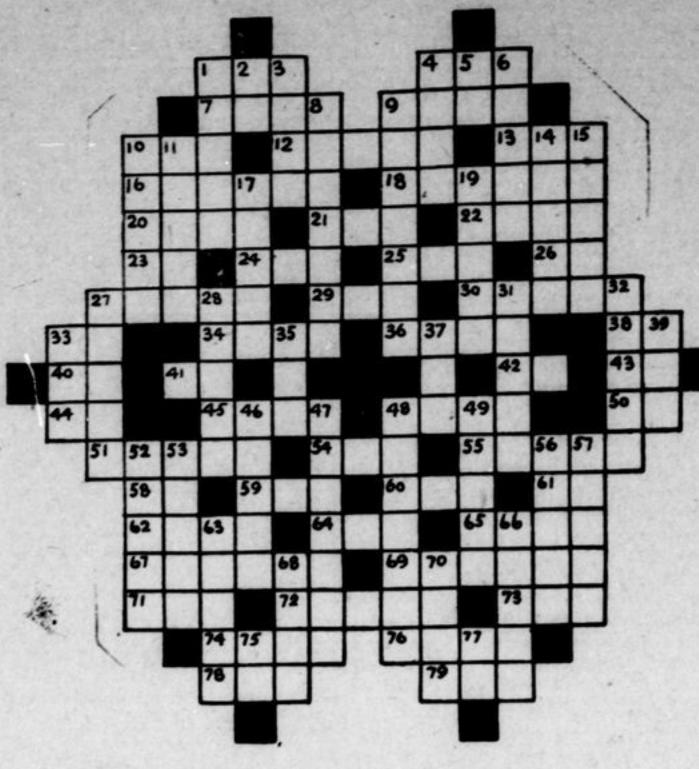
lany more helpful, or so readily

D. B. F. asks: "What can I do to

prevent my A battery clips from

available. Year after year, as folks fare It is surprising how few efforts forth to camp or summer cottage, are made to clean up ivy from coninterest in poison ivy revives. Many stantly frequented public and prihave yet to learn to recognize these vate grounds. Though eradication low, bushy, slightly woody-stemmed is bound to be laborious, there are plants, rising from long rootstocks plenty of people who could safely at or just below ground level, and work at it. In hard or rocky bearing characteristic leaves of ground, wherever injury to the soil triple, smoothish, pointed leaflets, does not matter, dry salt or strong and frequently the old clusters of brine might be applied before round, whitish fruits beneath them, growth becomes too dense, or after says Herbert Groh, Botanical Divi- mowing it with a scythe. Caustic sion, Central Experimental Farm. | soda and other poisonous chemicals Failing to recognize and avoid the are also recommended. As a rule, plants, many people, susceptible to however, direct removal of the rootpoisoning, find themselves present- stocks from the soil, by means of ly interested in remedies. Few seem grubbing hoe, potato hook, digging to be aware that on contact with or ploughing, when possible, is prefthe weed, they should promptly re- erable. Sometimes when growing

# Cross Word Puzzle No. 17



### HORIZONTAL

Short sleep 9. Beak of a bird

electricity are apparently well sat- 12. The Mohammedan bible Humiliates A French boy's name

Beginner or novice Card or label Friar Printer's measure liament. The proposition has created 24. An American humorist

That is (Abbr.) Welcome Shred or tatter Away from Mother Check or guide A nobleman And (Latin) Form of "to be" The Egyptian sun god Half a printer's measure

Negative

3.1416 Lethargy or insensibility

Military Academy (Abbr.) 59. Topsy's friend in "Uncle Tom's casted are carefully selected, they 61. Fourth tone of scale would probably prove more bore- 62. some than interesting to the aver- 64. Woman under religious vows

71. Point of the compass Ever since the Titanic disaster of 72. Abrupt or precipitous 1912, the United States Government 73. Arid

has undertaken the patrol of the 74. Sea eagles North Atlantic to protect shipping 76. An extinct pigeon-like bird larger than the turkey radio plays a most important role 78. A sheltered place in this work, and modern high 79. Neither

VERTICAL

1. Clip the wool from sheep 2. Old English (Abbr.)

#### Receive or accept One of Columbus' three ships Aluminum (Abbr.) The king of darkness Back door or gate Traveling equipment A flower

14. A girl's name 15. An old Dutch and German liquid measure equal to 9 gallons Mountain (Spanish) Daub or stain Neglected, untarined boy Rub out

Rigid: tight Plan Anger Ceremony A pedal digit Handle or manage 47. Bodies which revolve about the

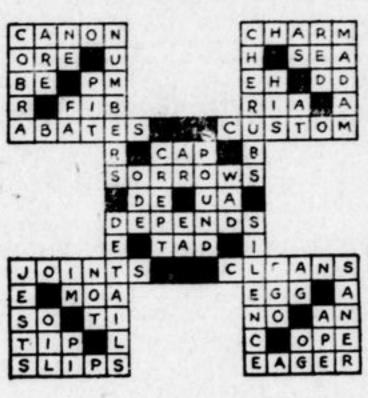
Fold goods in rib-like form

Estate Entertain Female horses Proffer or present Dirty A metal Zeal: eagerness 68. An Anglo-Saxon slave Above or on 75. Regarding

Enumerated

77. Accomplish

### Answer to last Week's Puzzle No. 16



### NIDK, use specially designed tubes and transmitters which are partic- BIRD SHORT-CIRCUITS

swered, the usual "hello" met with the bell in 2,000 homes. no response. As a matter of fact, the cause of the ring was uncontrolled at the central switchboard. L. P. A. asks: "Can I tell when | Connect the two wires from the where a common, ordinary sparrow | barrassed." Ans.—You should use a hydro- potentiometer. The potentiometer circuit was caused at once, and the do with.

: juice went back to what is known LINE; RINGS PHONES among electricians as "ground." As it happens, the party line tel-No less than 2,000 London tele- ephones are operated on this same phones rang simultaneously for a ground system, and by some means period of several seconds on Satur- or other the electricity, as soon as day morning about 8.30, and in the short circuit occurred, ran back every case when the phone was an- into the telephone lines and rang

### A Mean Ouibbler

She (after throwing suitor over): It came instead from the hydro sub- "You lied to me, you mean thing! station at Horton and Ridout streets You told me he was financially em-

my A battery needs charging by the A. F. transformers, which formerly had picked at a high tension wire, Miss Ryval: "I did not lie. He is reading of the voltmeter on the led to the negative side of the fila- while standing on the iron work at financially embarrassed - he has ment, to the contact arm of the the top of the hydro tower. A short more money than he knows what to

# THE PEOPLE'S MILLS

Sovereign Flour, per bag \$5.00 Eclipse Flour, per bag....\$4.65 White Lily Pastry Flour White Lily Pastry Flour,

Chopped Oats, per 100 lbs. \$1.80 Crimped Oats, per 100 lbs. \$1.80 Mixed Chop, per 100 lbs. \$1.80 per bag .......\$4.00 Chopped Oats, per ton lot \$35.00 Crimped Oats, per ton lot \$35.00 24 lb. bag ......\$1.10 Mixed Chop per ton lot \$35.00 Feed Flour, per bag.....\$2.25 Gunn's Tankage, per 100 Rolled Oats, per bag ....\$4.00 lbs. ......\$3.25

## Gunn's Big 60 Beef Scrap and Poultry Foods BLATCHFORD'S CALF, PIG and POULTRY FOODS

Our Feeds are of the Best Quality, and our Flour is Guaranteed. Prices right for Cash

Highest Price Paid for Wheat delivered at the Mill Goods Delivered in Town Every Afternoon

JOHN McGOWAN The People's Mill Durham, Ont.

Phone 8, Night or Day.

SPARROWS ROUT THIS denly in the midst of a young cy-

A pure-bred fox terrier in Lon-don sustained a devastating defeat Monday morning in a pitched battle with seven sparrows. "Bob," the terrier, was determined to investigate a small sparrow which had In the cold moonlight, his lips were fallen from a nest. He poked his long nose nearer and nearer in can- While hers were vivid carmine ine anticipation. He was within a few inches of the small bird when Our hero felt the call to arms, there was a rush of wings and a And joined the colors unafraid. volley of squeaks, and he was sud-

denly in the midst of a young eyup a game scrap for about two min. "Bob" Poked His Nose Too Near a utes, snapping at moving targets Baby Sparrow That Had Fallen that always eluded his white teeth Finally the pecks became more than he could stand, and he retreated precipitately toward a safer and a

### IN THE MOONLIGHT

-Chicago Phoenix

# Specials This Week

Women's Black Kid, 1 Strap Slippers, low \$1.60 heel, at per pair.....

Women's Black Canvas 1 Strap Slippers, 98c. leather sole and heel, at per pair......98c.

Misses' Strap Slippers, to clear at per pair \$1.50 REPAIRING A SPECIALTY

J. S. McIlraith The Cash Durham, Ont.



# Visit the Capitals

See their Points of Historic and National Interest

Know historic Ontario, know its points of interest, know the two Capital cities-Toronto and Ottawa-that lie within its borders. All through the Province there's a wealth of national and historic interest which should be familiar to every man, woman and child.

An intimate knowledge of our seats of Government will result in a better appreciation of our country's institutions. It will make better citizens of the boys and girls.

This summer, get the family in the car and drive either to Ottawa or Toronto. Both cities are at their best in summer time. In each you will receive courtesy and attention from those who are in a position to give you information as to what you should see.

Good highways to the Capitals lead from every direction. They are in excellent condition, and in every case will take you through magnificent stretches of farm and orchard lands, or by lakes and rivers and woods.

Take your time and see the country as you go. Don't attempt any speed records. They have all been made. Fast driving is dangerous; it detracts from the pleasure of your trip because you cannot see the country; it destroys road surfaces and thus it makes your trip more expensive than it need be.

For your money is used to repair damaged roads in Ontario. The user must pay. In your own interest, you are requested to minimize this damage and you can do so by moderate driving. Your co-operation is confidently depended upon.

An advertisement issued by the Ontario Department of Highsays to secure the co-operation of motorists and truck drivers, Automobile Clubs, Good Roads Associations and all other public pirited bodies, in abating the abuse of the roads of the Province. The HON. GEO. S. HENRY, Minister; S. L. SQUIRE, Deputy Minister

# Classified A

Thursday, July 23, 1925.

Advertisements under this f CASH WITH ORDER; six conse of four. Telephone calls treated Saturday night of week ordered 25 cents. On all charge orders ! will be made each insertion, mi

### Medical Directory.

DRS. JAMIESON & JAMIESON Office and residence a short dis ance east of the Hahn House Lambton Street, Lower Town, Du ham. Office hours 2 to 5 p.m., 7 8 p.m. (except Sundays).

Office and residence, corner Countess and Lambton Streets, opp site old Post Office. Office hour 9 to 11 a.m., 1.30 to 4 p.m., 7 to 9 p.; (Sundays excepted). DR. A. M. BELL

Office on Lambton Street (the la Dr. Hutton's office). Office hour 2 to 5 p.m., 7 to 9 p.m., except Sui

C. G. AND BESSIE McGILLIVRA Chiropractors, Durham, Ontario. The Science that adds life to year and years to life. Consultation fre In Durkam Tuesdays, Thursdays at Saturdays.

### Dental Directory DR. W. C. PICKERING, DENTIST

Office, over J. & J. Hunter's stor Durham, Ontario.

J. F. GRANT, D. D. S., L. D. S. Honor Graduate University of Tot onto, Graduate Royal College Denti Surgeons of Ontario. Dentistry i all its branches. Office Calde Block, Mill Street, second door ear of MacBeth's Drug Store.

#### Legal Directory MIDDLEBRO', SPEREMAN & MIDDLEBRO' Barristers, Solicitors, Etc.

Successors to A. B. Currey. Mr. C. C. Middlebro' is permanently located at Durham Office. Pricevill Branch open every Friday from 4.30 to 9.30 p.m. LUCAS & HENRY

ber of the firm will be in Durham of Tuesday of each week, Appointment may be made with the Clerk in the

Barristers, Solicitors, etc. A mem

### Licensed Auctioneer

DAN. McLEAN Licensed Auctioneer for County of

Grev. Satisfaction guaranteed. Reasonable terms. Dates of sales made at The Chronicle Office or with him-ALEX. MacDONALD

Licensed Auctioneer for Co. of Grey Moderate terms, Arrangements for sales, as to dates, etc., may be made

at The Chronicle Office, Durham Terms on application. Address R.R. 1. Durham, Phone 611 r 24. REUBEN C. WATSON Licensed Auctioneer for County of

Grey, Prompt attention to sales, Reasonable terms and satisfaction guaranteed. Dates made at The Durham Chronicle office or with R. C. Watson, Varney, R.R. t. Phone 604 ril

New Modern Funeral Parlors

122-124 Avenue Road Toronto R. Maddocks John W. Bates Formerly of Flesherton

### FARMS FOR SALE

LOT 7, CON. 21, EGREMONT, CONtaining 100 acres; 85 acres under cultivation, balance hardwood bush convenient to school; on the premises are a frame barn 42x65 ft. with stone foundation; concrete stables; also hay barn 30x50 with stone basement; hog pen 20x40; twelve-room brick house, furnace heated, also frame woodshed; drilled well close to house, with windmill; concrete water tanks: 30 acres seeded to hav 10 acres to sweet clover; this farm is well fenced and in a good state of cultivation. For information apply to Watson's Dairy, R.R. 4, Durham Ontario.

NORTH PART LOTS 7 AND 8, CON 22, Egremont, containing 66 acres; 54 acres cleared, balance hardwood bush; in good state of cultivation frame barn 44x50, stone basement concrete stables; drilled well and cement tank at barn. Also Lots and 7, Con. 4, S.D.R., Glenelg, containing 110 acres; 100 acres cleared and in good state of cultivation; or the premises are a brick house containing seven rooms, with good frame woodshed attached; drillet well at door; never failing springs of this farm, making a choice stock farm. This property will be sold right to quick purchaser. For par ticulars apply at Watson's Dairy R.R. 4. Durnam, Ont.

### FARM FOR SALE

Lot 66, Con. 2, W.G.R., Bentinck 21/2 miles southwest of Durham, containing 86 acres. Mostly clear and in good state of cultivation. Bank barn with shed adjoining and ston extension kitchen and woodshed Well watered and in good repair For further particulars apply to William Smith, R. R. No. 3, Durham

Don't call a road builder a high wayman or he may chase you with a steam roller.-Bridgeburg Review