

Selection of Proper Tubes and Rheostats

By R. M. SHERRILL (Radio Engineer)

When the radio fan starts to build himself a receiving set, one of the he was president of the institution. John McGirr as auditors for 1925. first problems which confronts him is that of choosing the type of tubes to be used. And right along in this same line is the problem of what by two sons, W. J. and R. W. Woodrheostats to use.

and the VT2 types.

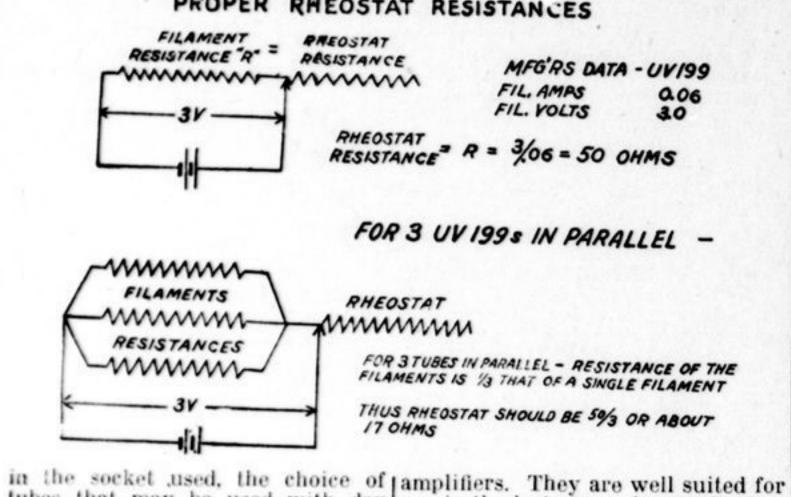
reason a storage battery cannot be amplifiers. used, the choice of tubes narrows down to the WD11, WD12 and the

tubes. The Radiotrons are the The UV200 is still used quite a lit-WD11, WD12, UV199, UV200, UV201 tle because it is a very sensitive ternoon to Mount Pleasant ceme- cession 3, D. D. R., be paid, amount Collinson, George, 63; Firth, Glenny, and the UV201A. The Western El- detector and in many cases, better tery, Toronto, from his late resi- \$26. Carried. ectric tubes mostly used are the VT1 than the UV201A for this purpose. | dence, 51 Castlefield Avenue.

The UV201A tubes, which are by The first consideration, in decid- far the most popular, are giving exing upon the tubes to be used, is cellent results on all-around work. generally, whether or not it is pos- Their filaments take but 1.25 watts, sible or desirable to use a storage and they are capable of handling battery for the filaments. If for any enough plate power to make good

ine western Electric tubes tak onsiderable power for their fila-UV199. As the only difference be- nents, but they are very uniforn tween the WD11 and the WD12 is thes and make excellent power

PROPER RHEOSTAT RESISTANCES



tubes that may be used with dry use in the last stage of an audio frecells really amounts to a choice be- quency amplifier. tween the WD12 and the UV199. It is difficult to keep in mind the These two types of dry cell tubes proper sizes of rheostats to be used are both good for a variety of pur- with these various tubes. It is easy poses, but each is better than the to calculate the proper rheostat reother in some particular points.

Exceptionally Good Tube

tioned in the above list. The WD12 this tube. tubes are, in the writer's opinion When several tubes are controlled at least, superior to the UV199s for by the same rheostat, its resistance audio frequency amplification.

sistance, however, if one remembers that the rheostat should have approximately the same resistance as E. Lindsay. The UV199 is an especially good the filament itself. Take for examtube for use as a radio frequency ple the UV199, whose filament is days with her sister, Mrs. McCaslin, amplifier because of its low internal rated for 0.06 amps at 3 volts. The town. capacity. Also its filament consumes resistance of the filament is then but 0.18 watts which is lower than the current divided by the voltage for any other tube. In these last or 3 divided by 0.06 which gives 50 two respects the UV199 is better ohms. Thus a rheostat of approxthan any of the other tubes men- imately 50 ohms will be correct for

may be figured in the same way, as Of the "storage battery" tubes, the shown in the diagram.

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RADIO QUESTIONS AND ANSWERS

Mr. Sherrill will be glad to help you solve your radio problems. Write him, care of The Durham Chronicle.

R. M. C. says: "I have a hook-up nected in parallel with a larger one calling for a 23 plate variable con- to provide a finer tuning adjustdenser. I have a 43 plate condenser ment?" on hand and would like to use it Ans .- Your scheme will be satis- portray.

iable in place of a 23 plate, the tuning would be rather critical, and on-

instead of buying a new one. Can factory in providing the fine adjustment, but you will be introduc-Ans,-Yes, but with a 43 plate var- ing greater losses into the circuit.

ly a small part of the dial would be tenna much better for receiving than sides showing the capitol life in the a single wire?"

S. T. G. wants to know: "Is there make no noticeable improvement turbulent frontier. The supporting

Priceville

(Our own Correspondent.) This is more like nice January weather. A fine, brisk, sunny day, It's good to be alive today.

Scarlet fever is responsible for stedt is in for ten days as are Mr.

Mrs. Alex. B. McDonald continues to improve slowly being able to sit up for a while each day.

week in this community resulted in mourn with the family and hope will be, we are unable to say but eaved ones at this time in the hour will be taken. The subject discussed from both sides by able men would help clear the air and no doubt assist in breaking the tie. That seems debts at New Year's. But then, the to be a very popular opinion as some Chinese don't give Christmas prespeople consider the question has not ents.-Arkansas Gazette.

been properly considered to permit a pronounced vote one way or another. This is a very vital question and is deserving of the very deepest consideration.

Another very sad death has ocseveral quarantined homes again, should say, outside of our commun-The Reiley's home is again under ity, of a very well-known girl and quarantine as the two daughters, woman in the person of the late Mrs. Misses Frances and Alice are both Angus McLachlan who lived practically all her life in this district. Farquhar McKinnen and family. Hugh McKinnen, South Line, Glen-Miss Sadie, who was just recovering elg, at whose home the remains are from an appendicitis operation, contracted scarlet fever; thus our so, she has lived in Markdale and teaching staff, who have been board-while visiting at Arthur, was called ing at Mr. McKinnon's, are also by death quite suddenly. The cause closed in for ten days with Miss we understand was acute indiges-Mary Mather, and the school is closed for the same period. Mr. Mc-bereaved husband, Mr. Angus Mc-bereaved husband, Mr. Angus Mc-Dermid, gravel road east, is still in. Lachlan, baby daughter, Marie about The cases are all very mild, yet are sufficient to cause a good deal of his family, many of whom are in the anxiety in the community. We hope West. We can furnish no particuthat the epidemic is checked, as it lars at the time regarding interment. is a dreadful disease to have at any Words seem empty at a time like this. The late Mrs. McLachlan was a wonderful hostess and quite a favorite in this community. Too The vote on church union last will not attempt a useless task. We

The Chinese always square up all

of their extreme trial.

DIED IN TORONTO

Former Well - Known Durhamite Passed Away Last Week.

city of Mr. George Wilson Wood- cation) as follows: Reeve-Mr. Willand, president of Newsome and liam Weir; Councillors-Alex. A. Al-Gilbert, stationers, and a former joe. Malcolm Black, Thomas. well-known resident of Durham. | Brodie and John McKechnie.

Besides his widow, he is survived | Carried. land, and one daughter, Miss Marjorie second and third time and passed. The standard tubes which are uvery used are the Radiotrons and less because of their high tubes. The Radiotrons are the Radiotr

Rocky Saugeen

(Our own Correspondent.) ttending his father's funeral. with their aunt, Mrs. L. McLean.

Monday. Malcolm McKechnie who were mar- and advertising 1924, \$28.73; W. N. cross, Reta, 47; Harding, Jean, 56;

The first of the league debates was writing minutes to papers, \$10; H. H. McLean, Cathrine, 41; McDougal, held in the school on Friday night. McDonald, postage and telephoning Violet, 50; McCallum, Florence, 56; There was a good turnout to hear \$3.25; Grey and Bruce Fire Insurance McDonald, Margaret, 30; McFadden, it. Both sides did well, and the Company, premium on Township Harold, 41; McIlraith, Stewart, 81;

favor of No. 7, Normanby. M.S. was held at the home of Mrs. pal World, 7 copies for Council, \$7; Thalma, 55. L. McLean. There was a good meet- W. J. Ritchie, preparing financial Form III.B-Beaton, Hazel, 62; ing. Some very interesting papers statement, \$9; Hospital for Sick Dunbar, Walter, 67; Fairnie, Lizzie, were read. The next meeting will Children, Toronto, (grant) \$10. be held at Miss M. J. Heslip's.

Darkies' Corners (Our own Correspondent.)

Miss Ethel Hargrave is spending few weeks at the parental home. Miss Jean Lloyd, Holstein, spent over the week-end at the homes of Mrs. N. McCannel and Mr. and Mrs. S. Patterson.

Miss Margaret McGirr visited recently at the home of Mrs. S. Ritchie

Miss N. Allen, Mount Forest, visited last week with her sister, Mrs.

Mr. and Mrs. Edward Lindsay entertained a number of their friends last Friday evening.

THREE NOTED PLAYERS

Have Important Roles in William S. Hart's "Wild Bill Hickok."

mount production, "Wild Bill Hi- at the next meeting. Carried. ckok," which comes to the Veterans' The Durham Review was awarded ! Star theatre next Friday and Sat- printing contract for 1925 urday. Omar Whitehead has the role of Abraham Lincoln, Charles vertise for Assessor for 1925. Dudley that of ill-fated General Custer and William DeVaull as doughty General Phil. Sheridan. The trio, besides being excellent actors, bear striking resemblance to the famous historical personages they

Probably no photoplay has had a which lasted fifty years." greater historical interest than "Wild Bill Hickok," which reveals intimate glimpses of the great Am-M. E. D. asks: "Is a two wire an- erican statesmen and soldiers. Bestirring sixties, the story is colored Ans,-Usually, a two wire will with the thrilling incidents of the any reason why a separate 3 plate over the reception with a single cast includes Ethel Grey Terry,

7am·Bak

The real danger is that when the cuticle or outer skin is damaged or removed the sensitive flesh is exposed to the inflammatory action of the air and to the poisonous influence of germs and dirt. The first thing to

AVERT COMPLICATIONS

is to coat the flesh over with a thin layer of Zam-Buk, which has great antiseptic, purifying and healing powers. Burns and scalds should be treated and bandaged up very quickly. Zam-Buk speedily banishes pain, allays all inflammation and grows new healthy skin. Zam-Buk is so reliable and so useful that it has been aptly called "A Surgery in a Two Inch Box." 50c. box, \$ for \$1.25, dealers everywhere.



Kathleen O'Connor, Jack Gardner, Carl Gerard, James Farley, Naida D. H. S. REPORT Carle and others.

GLENELG COUNCIL

Met in the Township Hall as per

Mr. Woodland was lorn in Ire- Communications were read from land 63 years ago an ., when an in- the Hospital for Sick Children, Torents, the late Mr. and Mrs. Joshua icipal Association, re meeting in store in town, and was later joined Council re alteration of boundary by his son, whom he took into part- of section. By-Laws No. 666, care-

The above By-Laws were read a

Interment was made Monday af- McGrath for brushing at Lot 40, Con- nett, Reggie, 57; Clark, Edgar, 55;

patient for removal to Markdale, \$3; Hugh, 49; Wilson, Willie, 59. Mr. and Mrs. Edward Bleich and Cunn Moore, removing patient to son returned to Williamsford on Markdale, \$3; Durham Chronicle, .

> Aljoe-Black: That Ward Com-A. Aljoe; No. 2, John McKechnie; No. Kathleen, 87; McLean, Campbell, 3, Malcolm Black; No. 4, T. J. Brodie, 59; McMillan, Kathleen, 75; Milne, and that the Reeve be Commissioner | Kathleen, 57; Morrison, Katharine, be \$500 for each ward. Carried.

Brodie-Black: That Treasurer re- Willie,61. tain \$10 of contract price of Pomona bridge for removal by Township of abutment of the Anderson bridge also that he retain \$10 until forms are to interest his father in conversaremoved from railing of Pomona tion. bridge. Carried.

Aljoe-Black: That this Council said the exasperated parent. "Now | pay for no winter work on roads, only when such is authorized by the Commissioner to be performed. Car-

Brodie-Black: That Council appoint Mr. R. T. Edwards as arbitrator re alteration of boundary of U.S.S. No. 12, Artemesia and Glenelg. Carried. Brodie-Black: That we extend

time for return of Collectors' Rolls until January 20. Carried. Brodie-Black: That A. A. Al-Three noted players appear in the joe be appointed to examine Treacast of William S. Hart's big Para- surer's securities and that he report

> The Clerk was instructed to ad-Council adjourned until Saturday, February 7, at 10 a.m. -H. H. McDonald, Clerk.

Wife (with newspaper) - "Just think of it! A couple got married a few days ago after a courtship Husband-"I suppose the poor old man was too feeble to hold out any

FOR PAST TERM

Following is a report of Durham statute on Monday, January 12. New- High School standing for term end- cident in the subway?" ly elected members took declara- ing December 31, 1924. The figures Last Saturday's Toronto papers tions of office (having previously contained notice of death in that taken their declarations of qualificentage obtained.

Form I.-Anderson, Christine, 54; Corlett, Cameron, 46; Dean, Myrtle, stack and now comes out as chipper 36; Dunsmoor, John, 47; Ford, Mary, as ever. Isn't it surprising what 65; Gagnon, Norma, 52; Goodchild, some things will do to get their Christine, 72; Hargrave, Mima, 57; names in the papers! Hay, Ellen, 63; Henry, Clifford, 30; Woodland. For many years the old-er Woodland conducted a general tation from U.S.S. No. 12 waited on Hooper, Alma, 58; Kearney, Elsie, 65; Lavelle, George, 44; Marshall, Elsubject of this sketch removed to Toronto where he entered the stationary business, for many years travelling on the road in this line for Newsome and Gilbert, Limited, subsequently becoming a member of also that Dy Law 666 be filled in accordingly; 73; Ritchie, Dorothy, 66; Ritchie, Norman, 54; Rowe, Claire, 45; Simp-

Form II.-Allan, Aylmer, 71; Ar- with heartfelt gratitude. 64; Grant, Florence, 48; Havens, Sea-The following accounts were man, 77: Heslett, Ruby, 54; Kelsey, passed and ordered paid: Election | Fred, 77; McAuliffe, Cecelia, 55; Mcexpenses, (D.R.O.'s, Poll Clerks, Auliffe, John, 65; McAuliffe, Margar-Doorkeepers, delivering ballot boxes et, 54; McCulloch, George, 58; Mcand telephoning) amounting in all Donald, Florence, 70; McIntyre, Mr. Jack Caswell is in Kincardine to \$72.80. Mr. Keyes, contract price Archie, 42; McFadden, Freeman, 63; of Pomona bridge, \$2,000; I. Traynor, McQuaig, Pearl, 50; Mortley, Myrtle, Miss Mary McQuarrie and bro- balance of account re bridges 1920- 57; Noble, Calder, 45; Robinson, Alma, ther, Peter, spent a day recently 23-24, \$150; Dr. A. M. Bell, examining 50; Smith, Ronald, 58; Thompson,

Form II.A-Anderson Margaret, balance printing account, 1922-23- 51; Burnett, Ina, 51; Falconer, Ed-Congratulations to Mr. and Mrs. 24, \$36.50; Durham Review, printing ward, 60; Fortune, Helen, 41; Glenried a week ago in Durham. We Whitmore, salary S. A. Officer 1924, Welcome the bride to this commun- \$10; James Ledingham, salary S. A. Hepburn, Wallace, 45; Holmes, W. 61; Ledingham, Jean, 66; Lawrence, Officer 1924, \$10; H. H. McDonald, Margaret, 49; Lavelle, Cathrine, 49; judges awarded their decision in Hall policy, \$4.80; W. H. Patterson, Moon, Oscar, 67; Pickering, Marjorie, avor of No. 7, Normanby.

The monthly meeting of the W. ham, refund of dog tax, \$2; James Leding-Bessie, 69; Ritchie, Marjorie, 79; Smith, Bessie, 69; Traynor, May, 42; Wilson,

82; Grant, Elsie, 53; Hay, George, 50; Kress, Florence, 65; McDonald, John, missioners be as follows: No. 1, A. 71; McKechnie, Islay, 54; McLean, of bridges; ward appropriation to 79; Noble, Clarence, 37; Riddell, Gordon, 57; Snell, Alvin, 59; Vollett,

AN AWFUL ACCIDENT Willie had tried by various means

"Can't you see I'm trying to read?"

Willie was silent for almost minute. Then reflectively: "Awful accident in the subway

Father looked up with interest. "What's that? he asked. "Yes;" repleid Willie, edging to-

For fourteen weeks near Minesing. Baird, eJan, 52; Beaton, Mary, 73; a hog stayed imprisoned in a straw-

CARD OF THANKS

The undersigned desire to express enor, 75; Marshall, Janet, 68; Mc- their deep appreciation of the deeds

for Newsome and Gilbert, Limited, By-Law 666 be filled in accordingly; subsequently becoming a member of the firm. At the time of his death, in with names of Henry Beaton and the firm. At the time of his death, in with names of Henry Beaton and Neaves Ernest, 73; Ritchie, Bertha, Cluding the Orange Lodge, the Revs. Vera, 69; Murdock, Blanche, 58; Neaves, Ernest, 73; Ritchie, Bertha, 73; Ritchie, Dorothy, 66; Ritchie, Peters and Taylor (Baptist) and other ministers of the town, the son, Martina, 50; Storrey, Irvine, 54; Methodist choir, our neighboring friends, also Dr. Brad Jamieson and the matron and staff of the Red Cross Hospital for their constant care. They will long be remembered

Wife and Families.

HEAD and BRONCHIAL

Just Swallow a RAZ-MAH Capsule Restores normal breathing. Quickly stops all choking, gasping and mucus gatherings in bronchial tubes. Gives long nights of restful sleep. Contains no injurious or habit-forming drugs. \$1.00 per box at drug stores. Send 5c. for generous trial. Templetons, Toronto.

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This Week's Bargain List

Linen Envelopes, Reg. 15c pkg. Bowls, 3 in a set, for75c Ladies' All-Wool Cashmere Ladies' Stamped Flannelette Night Gowns\$1.39 Ladies' Holeproof Cashmere Hose, Heather Shade, Reg. \$1.50, for98c

Gold Band Cups10c | Stamped Pillow Slips, Reg. \$2.25, for\$1.75 for 10c | 97-Piece Dinner Set, Reg. \$32 for\$27.50 8-Quart Aluminum Kettles Electric Light Bulbs, 40 and 60 Watt, each25c Cut Glass Tumblers, each 15c Good Quality Envelopes, 25 in pkg., per pkg.5c

> The Variety Store R. L. Saunders

Phone 52



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Fancy, All-Wool, Baby Blankets, in Teddy Bear Designs, @ \$1.39 Fancy Comforters, in Blue and Pink @ \$5.69 Fancy Comforters, in Red Paisley Patterns, @\$4.69 Large Size Plaid Blankets, each\$4.59

Comforters for Kiddy's Crib, each\$3.39 Men's All-Wool Underwear, each\$1.49 Children's Underwear Priced According to Men's Heavy Sweater Coats, each\$4.98 Boys' Wool Sweaters, Size 30 & 32, each \$1.19

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of twins. This is a crease. New Ranch Near S

Thursday, Janua

NEIGHBORHO

Interesting News

Exchanges.

Wingham Editor's

and publisher of the

vance-Times, was ba fier on Wednesday

week. The fire bei

side walls and part

fact that no flames w

the smoke suffocating

work of the firemen

siderable damage wa

tents, the only cloths

that which the

wearing at the time.

John Miller and se Shade Stock Farm, B. a herd of cows and

dition of twenty-five

In this number there

Five Sets of

(Dundalk H

The home of A. (

Towns Clipped

(Southampton A new silver fox ra started in this vicinit east of Arran Lake of Mr. Charles Mullet. T pair of silver foxes, a worth approximately foxes arrived a couple The venture is control pany of ten sharehold William Haverson of is one of these. Mr. fox farming is becomin dustry in Ontario, and

Thieving in P Dundalk Her Mr. Roy Irwin, Cone ton, had 30 bags of bud out of his house Mor early Tuesday day mo pears he stays at the mother a mile away fi Evidently the thieves aware of this and of coast clear to make if grain is valued at over hoped the thieves will up. A quantity of di taken from the school the corner of the 6th C the 37th Sideroad a cor

> Get at the Se Walkerton Tele

From now on any Milton Public School d ing eigarettes on his wi school will be handed t Constable Chapman, wh tain from the pupil th his supply of fags. Th then prosecute the mi the cigarettes to the ni

Carrick Abolishes Sta

There was no sheddir

Mildmay Gaze

the ceremony of the statute labor which tool Carrick Council meeting afterneon. The old. di tem has still quite a friends, however, in the who are waiting with cal interest to see how! tem, to be inaugurated work out. The Council all the highways under of patrolmen, the divis from 5 to 612 miles in duty of the patrolmer drag the roads after summer, keep them pas ter and to perform m maintenance work. Al culvert building and gravelling will be unde pervision of the Over Council. It is expected township roads can be by about twenty-five pa the Council is anxious best class of men possi positions. The Council Thursday to lay out ! and to name as many of men as possible. It is to expect that a perfect can be effected the fir

no bad leaks occur. Scoring a H (Bruce Herald and Roy, Henderson, dr Dominion Express rig. & citizenry by appearing | iform with brass but gilded hat that lends touch of tene to the bu charger that he driver

the Council intends ked

ful tab on all its officer

Annual Me South Gre

The Annual Meeting held in the

DURHAM PUBLIC I

FRIDAY, JANUAR AT 2 P.M.

The business of the p be examined and passe discussed and adopted f ent year. It is hoped members within reach v to be present, and all out interested are cordiall

DON'T FORGI

J. W. BLYTH, President.

GE