The Use of By-Pass Condencers

By R. M. SHERRILL (Radio Engineer)

It is a very common occurrence in radio circuits to Wednesday night, the company went to Maxwell and repeated the show for a number of years and was well and concert under the auspices of known in the community is yet as simultaneously. Some of these currents may be direct the local Women's Institute. known in the community, is yet active and in good health. Since leavand some alternating, and in the latter case, some may be of radio frequencies (over 15,000 cycles per second) and by the owner took fright and ran he spent three months among the some of audio frequencies (below 15,000 cycles per away a few days ago, damaging the scenes of his early life. We further second).

It is necessary in radio work to separate these currents at particular points and make some branch off in one direction and some in another. This separation is accomplished by condensers and inductances of the

Any piece of apparatus in a cir-

currents, a high impedance to audio the amplifying transformer second-

Useful in Reflex Sets

Other places in which by-pass on Wednesday night of last week of 90 years. condensers are used are illustrated and won by a 7-3 score. The game At the annual installation of ofin the diagram. They are especial- was a good one and evenly contested ficers on Friday night last in the of different currents.

A by-pass condenser is usually cuit offers some resistance to these connected across the primary of the currents, but generally offers a dif- amplifying transformer in the plate at the parsonage on Tuesday night Down; Deputy-Mistress, Mrs. O. W. The cause of the fire is a mystery, ferent amount of resistance to each circuit of the detector. One is alof the different kinds of currents so used across the B battery, and very often a single by-pass conden-The by-pass condenser is a small ser is used around both the B batcapacity, generally around 500 teries and the transformer as shown mmfds (0.0005 mfds) which offers an in Fig. 2. In reflex circuits by-pass infinitely high impedance to direct condensers are used across some of

USE OF BY-PASS CONDENSER FIG.1 FIG. 2 By-pass __ finale he pass condenser Party ing the C. Lattery transformer W. ... '9

frequency currents and a compara- | aries. tively low impedance to radio fre- Some one may maintain that he Stewart, Flesherton. One brother well-informed speakers and others, quency currents. Thus, if a by-pass has often seen sets working perfect- and three sisters also survive him the radio frequency to pass through inherent caracity in the apparatus years and up to the time of his easily, while the audio frequency such as the capacity between the death. He was a staunch Conservacurrents will have to go through the wires leading to the headphones, or live, and in religion, a Methodist. headphones where they are used in the distributed capacity in a trans- Fraternally he was an honorary reproducing sounds. Were this ca- former winding, which takes the member of the Black Knights and pacity not plesent in the above ex- place of a separate and external Orange Order at Feversham and alample, the radio frequency currents by-pass condenser. In doubtful so of the Masonic Lodge at Flesherwould meet with a high impedance places it is easy to determine by ton which officiated at the funeral in the phone windings and be experiment whether or not the ad- at Feversham on Saturday. The logreatly diminished if not choked off dition of a by-pass condenser will cal ministers, Revs. Duffield, Shan-

be an improvement. (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.

E. B. L. asks: "Is it necessary to ings?" disconnect my B batteries when- Ans.-Yes. The positive terminal ever I am through using my of the phone cords is generally dis- congregation.

according to polarity of the wind-lother.

know which side of the jack is pos-itive, try connecting the phones goin a critical operation in the head M. A. Z. wants to know: "Is it bet- both ways. The correct connection for abscess. ter to connect a pair of headphones should give better signals than the

Traverston

(Our own Correspondent.) (Too late for last week)

Orangeville last week. liam Baker is somewhat improved in the concessions.

Miss Margaret Greenwood left on Saturday for the Queen city where she expects to spend the winter

last Thursday after spending a very four in number, whose chorus sing- another ailment which required an

family.

wards home

Mrs. John O. Greenwood treated Frank Thurston, and a trio, "Suez," \$1.00 Rhoumation Newsities the young people of the neighborhood to a very jovial party on Friday evening of last week. Mr. A. D. McIntyre of Dornoch, Misses Hazel and Mary Beaton of Glenelg Centre and Miss Margaret Anderson of Edge Hill attended this function and spent a happy week-end at this hos-

Miss E. J. Allan spent the week-

end in Durham with the Ramage family. Mr. and Mrs. Colin McArthur at- Mr. Edward Cook spent a few days

tended the funeral of a relative near recently at the parental home. Sleepers are not all on the rail-We are glad to learn that Mr. Wil- road tracks, so beware of some or

> Flesherton. (Our own Correspondent.)

Mr. and Mrs. John Hudson of Ben- staged by the Flesherton. High once commenced work in the new tinck arrived recently at the home School Literary Society in the aud- shop. of Mr. George E. Peart to assist in itorium of the school last week was Mr. T. W. Findlay went to Toronto caring for Mrs. George Furneaux as anticipated a great success. There last week to see his brother from who is in very poor health at pres- was a large audience highly pleased the West who had undergone an with the program, and the society operation in the hospital. He was Miss Myrtle McClocklin spent the was satisfied with the receipts returning from the Mayo Brothers' past week with her sister, Mrs. Wil- which amounted to about \$100. Mr. Hospital, Rochester, Minn., where he George Akins presided and was dia- underwent an operation, but on 3 Miss Mina Edwards returned home logist with the minstrels, twenty- reaching Toronto, was seized with enjoyable holiday with the Tufts ing was much enjoyed. With Frank operation. It was successful and Duncan and James Hales as end the patient was doing well. Mr. McInerney of Toronto is vis- men, the troupe was very funny, and iting at present with the Connor many prominent citizens were the objects of their wit and humor. An Miss Margaret Atkinson of Dur- original poem of fifteen verses sung ham attended the party at the home to the tune of "It Ain't Gonna Rain ham attended the party at the home of "It Ain't Gonna Rain of Mrs. J. O. Greenwood on Friday evening and spent a day at the Ed- the minstrels in the chorus, was a the Ed- the minstrels in the chorus, was a rousing and taking number. This Mr. Arnold Noble purchased five was followed by Jimmy Hales, who fat cattle from Mr. William Cook, in his usual witty manner, created fat cattle from Mr. William Cook. three from Mr. William Timmins and one from your scribe last week. They were delivered to town on Saturday.

Mrs. John O. Greenwood treated

Mrs. John O. Greenwood treated

Mrs. John O. Greenwood treated

condenser is placed across the head- ly without by-pass condensers Herbert, Mrs. Thompson and Mrs. phones, which are, as shown in Fig. across the phones or some other Hunter, Toronto; Mrs. Horton, Col-1, in the plate circuit of a regen- piece of apparatus. The fact is, in lingwood. Mr. Perigo filled the poerative set, this condenser will allow cases of this kind, that there is an sition of County Constable for 30

ately escaped injury.

winning the match.

served to all.

non and Simpson, conducted the funeral service. Floral tributes were given by Prince Arthur Lodge and L.O.L., 1085. The deceased's family were all at his funeral, and Charles

> and W. Ross, Toronto. The friends here of Rev. A. McVicar, a former pastor, are pleased to learn of the evidence of success on his new charge at Keady by the increase in stipend of \$100 from that

and William Perigo, Collingwood

tinguished by having a red thread Mr. John J. Boyce, a former resi-Ans.—No. By turning off the fila-ment, your B battery circuit is au-familiar enough with the circuit to ling recently at Southampton, is in

Mr. Joseph Snell, of the West Backline, Artemesia, was taken to Owen Sound Hospital last week for an operation on an abscess.

Mrs. Dr. Turnbull underwent a successful operation for appendicitis | in the Owen Sound Hospital last week, and her friends here hope for her speedy recovery. Nurse Inkster-Jones, formerly of this place. is private nurse to Mrs. Turnbull. Dr. Turnbull spent Sunday with his | +

Mrs. Jacob Thompson visited last week with her daughter, Mrs. Ferris

at the Park House. Mr. R. Moody, blacksmith for Mr. The mintsrel show and concert E. Henry, arrived last week and at

Freedom from Pain Neuralgia

and You," by Miss Laura Boyd ac- were defeated badly. The boys hope be well attended companied by the entire chorus was to make good again.

Mr. R. W. Paton, who was home a gem and very pleasing number. Solos by Miss Aleda Mitchell, Miss ten days by the death of his mother, Evada Wilson, Miss Thelma Wilson supplied his work at Cedarville on and a duet by Miss Viola Thistle- Sunday and on Monday returned thwaite and Miss Elizabeth Bentham to his studies at Toronto University. Reeve Meads, Reeve McKenzie and were exceptionally well rendered and heartily applauded. Miss Irene Wilson and little Miss Betty Mur- ty Council at Owen Sound this ray gave a sketch entitled "Carolina week.

Mammy" which was highly pleasing. Rev. and Mrs. H. H. Eaton left on Two song numbers by the minstrels Monday for Washington to attend a were much enjoyed. H. McDonald Missionary Convention and will be a student, brought to house down absent probably two weeks. Mr. with his Highland dencing. A Cor- Brooks, student, Shelburne, wili supnish floral dance by six of the stu- ply Mr. Eaton's pulpits while the dents was very taking. The dancers latter is away.

were accompanied by Murray Ink- Miss Mildred Caswell went to ster singing the verses, and a num-ber of the students joined in the sister, Mrs. Snider, in the hospital

chorus. Miss Dunham accompanied after an operation. and was also pianist throughout the Miss May Muir, teacher, Durham entire program. After the concert, Road, visited over the week-end a dance was indulged in by the with Miss Mary Paton.

young people, the Large Brothers' By an interesting letter from a orchestra furnishing the music. On friend in Stratford, we learn that cutter badly, Mr. Parslow fortun- learn that Mrs. E. McGinnis, a former resident of Owen Sound and a The Chatsworth hockey team, ac- close friend of Mrs. VanDusen here. played a match with the team here markably smart for her great age

enjoyable time at a social evening A. Hawken; past W. M., Mrs. H. insurance of \$11,000. which for some time rendered him art, Mrs. W. P. Crossley, Mrs. S. E. fire confined to the building helpless. Mr. Perigo was born near DeCudmore, Mrs. H. Wilson, Mrs. W. which it started Kingston and was 78 years of age. Turney, Mrs. R. Down, Mrs. A. When he was 12 years old, he came Down; Organist, Mrs. Alfred Down. to Osprey with his parents, who At the close, refreshments were quietly." were among the earliest settlers in served, and a pleasant social time the township. Later he left the farm was spent.

and settled in Feversham, where he Mrs. C. N. Richardson is returnengaged in the saw mill business for ing this week from an extended vismany years. He was married 57 it with her sister at Detroit for years ago to Miss Mary Osborne of some time.

Osprey, eldest daughter of the late | A meeting of the Artemesia Town-Mr. and Mrs. John Osborne, who re- ship Trustees' Association will be tired and spent their last years at held in the town hall here at one Flesherton. He is survived by his o'clock on Wednesday, February 4, wife, three sons and two daughters; when addresses on educationl matnamely, Thomas and Harvey, Tor- ters will be given by Rev. W. M. onto; Charles B., Detroit; Mrs. H. Morris, secretary of the O.E.A., and Alexander, Fevershan; Mrs. Albert Dr. Jamieson, M.P.P.. With these

RADIOS RADIOS

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Stromberg-Carlson Sets The Golden Tube Contact Set The Nightingale HORSE & CUTTER FOR HIRE General Repairing

Saws Gummed SKATES SHARPENED Durham Machine Shop F. W. MOON, - MACHINIST

"Morning Will Come" with pleasing The local hockey team played a this will doubtless be an interesting match at Dundalk last week but and instructive meeting and should

Miss J. Pearse of Chatsworth is visiting Mrs. W. B. Cross. Mr. and Mrs. W. Batty and young daughter left on Monday to spend the week-end at Oshawa and also be present at the golden wedding

anniversary of Mr. Batty's parents. Mrs. Ira Perigo of Feversham has come to Flesherton to reside with her daughter, Mrs. Albert Stewart. Mr. William Ross of Georgetown is visiting Mr. and Mrs. W. J. Stewart and other relatives.

Mr. John Runstadler has rented Mrs. George Johnston's residence occupied by Mr. H. D wn who will move to his own residence. Mrs. C. Brush of Hamilton spent

the week-end with Mrs. Edward In Artemesia on January 24th, a less, for over two years before Lydia E. Pinkham's Vegetable Compound was Best in town. son was born to Mr. and Mrs. Bert

pose of his woolen mill and business here, but negotiations are not closed

at the time of writing. here at not seeing the sun's eclipse on Saturday owing to the heavily clouded sky.

BURNED SUNDAY

companied by a big bunch of fans, whom she visited, is well and re- Moore Bed Factory Burned With Loss of \$20,000.—Cause of Blaze a Mystery.

ly useful in reflex sets where the until the last period when the vis- W.O.B. A. here, Grand Mistress, Mrs. trious fire early Sunday morning Pinkham's Vegetable Compound a fair circuits are loaded with a number iters made two or three good shots, Bush of Hamilton, conducted the when the plant of the Moore Bed trial. All druggists sell this medicine. ceremony, and the following took factory was completely destroyed. The Baptist Sunday School had an office: Worthy Mistress, Mrs. W. The loss is estimated at \$20,000, with

last week. Various games were en- Phillips; Chaplain, Mrs. W. H. and besides the plant, the entire gaged in, candies distributed to the Thurston; D. of C., Mrs. W. I. Hen- stock was a prey to the flames. It children, and refreshments were ry; Rec.-Sec., Mrs. George Stewart; was discovered shortly after Financial Secretary, Mrs. Frank o'clock Sunday morning by a young millions more people. Tea is the Mr. Ira H. Perigo, a highly re- Thurston; Treasurer, Mrs. T. J. lad who lives near the factory. The spected and aged resident of Fever- Fisher; Lecturers, Mrs. Edward Best fire brigade was quickly on the sham and well known at Flesher- and Mrs. Frank Duncan; Guardian, scene and assisted by citizens, saved ton, passed away on Thursday last, Thomas Bentham; Inner Guard, an adjoining saw mill, the office and January 22, after a long and trying Mrs. M. McDonald; Outer Guard, H. a large quantity of lumber. Adjoinillness due to paralytic seizures, Down; Committee, Mrs. W. J. Stew- ing property was also saved and the

> Caller-"Your children play Mother-"Excuse me a moment."

-American Legion Weekly.

BREAK-DOWN

Pains in Back and Legs Relieved by Lydia E. Pinkham's Vegetable Compound

Ford, Ontario.-"I had a nervous

break-down, as it is called, with severe nains in my back and legs, and with ta ring spells which left me very weak. I was nervous and could not sleep nor eat as I should and spent much time in bed. I was in this state, more or Mr. John Nuhn is about to dissitting up in bed, and when the first bottle was taken I was out of bed and able to walk around the house. During my sickness I had been obliged to get There was much disappointment some one to look after my home for me, but thanks to the Vegetable Compound I am now able to look after it myself. I have taken Lydia E. Pinkham's Blood Medicine in turn with the Vegetable Compound, and I certainly recommend these medicines to any one who is not enjoying good health. I am quite willing for you to use these facts as a testi-monial."-Mrs. J. SHEPHERD, 130 Jos. Janisse Avenue, Ford, Ontario.

Nervousness, irritability, painful times, run-down feelings and weakness are symptoms to be noted. Women suffering from these troubles, which Wiarton was visited by a disas- they so often have, should give Lydia E.

TEA SUPPLY INADEQUATE. -PRICES HIGHER

Tea prices are going up mainly because tea is being demanded by cheapest and certainly one of the most palatable and satisfying beverages known. But the teagrowers have been unable to meet the tremendous demand. It takes three years for a tea bush to mature to the plucking stage.

Customer—"But if you are selling so watches under cost price, where does your profit come in?" Assistant-"We make our profit out of repairing them.

Campbell's Grocery & Restaurant

We handle

Maple Leaf and Ogilvie Flours Snowflake Pastry Flour

Delivery to all parts of town Don't forget our Free Patched Quilt in Star

Pattern given to the customer making the largest purchase during January and February.

FRESH GROCERIES AND CONFECTIONERY ALWAYS George Campbell

Phone 115

North of Post Office OUR STOCK IS ALWAYS FRESH

Durham

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McComb's

The Home of GOOD GOODS at LOW PRICES

GOOD NEWS IN DRY GOODS

500 Yds. New Ginghams

NEW GOODS NEW DESIGNS NEW PRICES

The price is only 29c per yard Get it early while you have the choice.

SEE WINDOW DISPLAY

Growing Girls' Black Calf Oxfords

A WHIRLWIND SPECIAL

A new design just out. Get a pair while we have them.

Only \$3.49 a pair

Best Orange Pekoe Tea worth 90c. We are selling it this week done up in One Pound packages at 72c. each. Get your share.

Hosiery Specials

Men's Worsted All-Wool Hose, British Make, per pair48c Men's Cashmere Hose, Reinforced Toe and Children's All-Wool Worsted Hose, 49c Ladies' Cashmerette Hose, Black and Brown, per pair25c

300 lbs. Best Jamaica Cocoa

ON SALE THIS WEEK Large 3 lb. package for 25c.

With the price of tea and coffee going up, do not fail to procure one or two packages of this fine cocoa. The quantity is limited at this price.

Fresh Bread Every Day. If you've never tried our bread, try a loaf, you'll like it.

Right Prices

EVERYTHING CASH

A. G. McCOMB

WE BUY FOR CASH AND SELL FOR CASH

Service

followers of the m to it. They will hear it ridiculed. to scouting. Also same thing applie and your town, you leave Durhan the world. Do no it be known that town. If anyboo you, tell them that men in the country ham and from th You fellows will t ing a sermon, but

have often seen m

nerve to stand by

meant taking a

maybe some abus

deeply grieved i

the First Durham

den-Powell Boy S

Thursday, Jane

The Boy

EDITED BY GE

The regular we the First Durham

for the first time it

Hall. There was n

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owing to the fac

School was playing

High the same nig

the Scouts were on

However, Doctor A

ued his course in !

tion; and those v

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treat cases of pois

Loyalty not only

King and Country,

to your town, you

troop, your scouti

trol-leader and yo

When somebody

remark about you

Boy Scout moveme

fellow-scouts, don

sickly smile on y him get away with

you are a scout,

making fun of the

he is making fun o

fellows haven't the

what they profess

success of any mo

for their fellows.

A Scout

Colu

of his patrol-lead school. Trimme

Once more Mo were at the top the final bell rang the Durham Troo Saturday afternoo by a 2-1 score. T unfortunate in b services of its sta car Moon. Moon Mount Forest, and on Thursday nigh tween the Durha est High School he decided not t the lip had heale let, who usually was also laid up.

Bill Wilson pl good game, thou into the Mount and was always Vollett. although little stick-hand as silk. He worm more than once, ways failed to c the visitors, was cal scouters qu though he was v checked harder than in Mount F The Durham li G. Lavelle; defe Bill Wilson; for

ham had a cons

TWENTY From The C Februa

Comb, "Deed' Vo

substitutes, R. Co

The young m Church gave a entertainment a The unique feat thing was done while the ladies ticized. W. J. Firth,

chased the but E. T. McClocki sion on Wednes Mr. and Mrs of Hutton Hill a of their little or eight years

Traverston (Sunday, Januar born to Mr. and wood, but her s brief. She c last week and urday. Our townsma

died suddenly morning. Mrs. Billings, eighty-five year Mr. and Mrs. turned home pleasant honey

A reception w home of the gr Mr. Graham is visiting rela Bunessan Cor McArthur had drive over a w for some time, condition. The the covering a

35-foot tunnel

and occupants

pened at John

Glenmont (W. L. Dixon the Provincia Guelph in Dec from hand-sel

Edge Hill con