

NEW COUNTY OFFICIALS TAKE OFFICE TUES. DEPUTIES NAMED

The newly elected county officials will go into office, Tuesday, Jan. 2. The court house will not be open on New Year's Day.

There will not be a great many changes. R. W. Kennard, county auditor, and Alfred Mostad, county treasurer, are holdovers, and their new terms will not begin until in the spring.

Judge Wm. Murray, county judge, A. M. Waller, superintendent of schools, E. J. Thomas, county surveyor, and R. W. Pence, coronor, were re-elected. The personnel of these offices will remain practically the same.

Miss Nelle Rose, who has been deputy Register of Deeds for several years, and who is the first woman ever elected to this office, will take charge of her office Tuesday. Miss Rose is particularly well qualified for this work and will conduct it in the same capable manner that has characterized the administrations of the popular and efficient Register of Deeds, Martin J. Engeseth, who will retire.



Mrs. Mae Golberg

Co. for several years, will be the office clerk.

A. S. Spicher, for the past four years a member of the board of county commissioners, becomes sheriff of Ward county next Tuesday. Mr. Spicher was chairman of the board for several years and if he conducts his new office as well as he has that of county commissioner the voters of the county will have no reason to regret placing him in this important position.

Mr. Spicher has been a resident of Ward county for nearly two decades. He has built up one of the finest farm homes in Ward county, south of Des Laes.

Mr. Spicher has selected as his chief deputy, L. H. Avery, former Donnybrook farmer.



Miss Nelle Rose

Miss Rose has selected as her deputy, Miss Florence Siverling, daughter of Mrs. Mary Siverling, of Bowbells. She has been employed in the Register of Deeds office of Ward county for the past four years and she was deputy for two years in that office in Burke county under George Hanson. She was employed for two years by M. R. Porter in transcribing the records of old Ward county at the time of its division. She is particularly capable of holding this important position.

Miss Rose announces that Mrs. M. J. Engeseth, Miss Anna Biorn and Miss Lena Crowe will remain in the Register of Deeds office.

V. E. Stenersen becomes the new State's attorney. Mr. Stenersen is a capable attorney who has made his way thru his own efforts. He won out in a particularly hard campaign with a good sized majority. His assistant as announced is O. B. Herigstad, who has been the state's attorney for Ward county for years. This important office will be conducted in the future in the same efficient manner as in the past.

Mrs. Mae Golberg will assume her position as Clerk of the District Court Tuesday. She is the first woman ever elected to this office and having had years of experience as an employe in this office, is expected to make a good record.

Mrs. Golberg has selected as her deputy, J. F. Crites, who was employed as deputy in this office many years ago, when J. E. Smith was clerk of the district court. He has been employed at the Russell-Miller mill for several years.

Miss Helen Thuerer, who has been connected with the Home Furniture



A. S. Spicher

C. R. Hicks of Des Laes will be the new turnkey at the county jail.

Wm. Rustad, who has been connected with the office of the County Auditor, will be the office deputy.

Recalls Time When Ward County Had Fewer Than 600 Votes

In the early days of Ward county, there were naturally but few votes and most of them were rounded up in the little village of Minot. Judge Murray recalls that the second time he was elected county judge of Ward county, he received a total of but 275 votes, yet his two opponents, Martin Jacobson and John Wallin, received a total of but 276 votes.

At the recent election in November, there were 8,905 votes in Ward county, including those of the women.

E. E. Burdick of Surrey, has in his possession a fine hunting dog with a Berthold, N. D. license. Mr. Burdick is taking good care of the canine and the owner can recover it at any time.



V. E. Stenersen

RADIO

BEST SOURCES OF FILAMENT CURRENT

Storage Battery in Conjunction With a Rectifier Forms the Ideal Power Supply.

When the filament current of a vacuum tube is adjusted at normal rated value a small change in filament current will cause a large change in the plate current. Suppose a certain tube is used in a regenerative receiver circuit. Not only does a variation in filament current change the plate current and cause a sound in the telephone receivers, but the plate impedance is changed, and the energy fed back to the grid circuit is changed, which causes the variations in plate current to be amplified.

In order, then, to maintain the plate impedance constant and also to reduce tube noises to a minimum, especially if the receiver is used for radiophone reception, the ideal source of filament current should be at a constant potential. A storage battery represents the best source of constant potential for filament current supply. For those who have alternating current available and want the best results, a storage battery in conjunction with a rectifier forms the ideal power supply for the filaments of the tube. This is especially true if amplifiers are used in conjunction with the receiver, for any variations in filament current causing noises in an amplifier set will be amplified by the successive tubes until the original noises become a veritable roar.

If a single tube is used for reception without amplifiers it is possible

denser. It is not only possible to tune finely, but also, by changing the ratio of capacity to inductance used to receive the same signal, the sharpness of tuning can be varied.

The grid circuit of the tube is coupled to the antenna circuit by means of a few turns of wire on the rotor of the vario-coupler. The tuning of the circuit is accomplished by means of the grid variometer. The grid condenser is the grid with respect to the filament, so that the only capacity in shunt with the inductance in the grid circuit is that between the grid and filament in the tube. The shunt capacity gives the greatest inductance with a very small value of voltage variation on the grid for a given signal in the antenna. Since a vacuum tube depends for its operation on the amplitude of the voltage applied to the grid, it is desirable to use only very small values of shunt capacity in the grid circuit, especially on short waves.

DR. STEINMETZ ON LIGHTNING

Noted Authority Answers a Question of Interest to Fans the World Over.

Doctor Steinmetz, who is an authority on high-power electrical phenomena, was asked the following question during his visit to the radio congress: Question: Doctor Steinmetz, many of us have amateur radio receiving sets in our homes. We have heard rumors that there is a fire hazard because of the antenna and the ground connections, and that certain restrictions may be placed on amateur installations. We would like to have your opinion as to the real hazard involved.

Answer: There is no hazard in the amateur radio receiving stations. It involves no fire risk nor risk to life. It is merely a harmless toy, but is a great deal more than a toy. It is one of the most valuable developments of the last years, by its instructive and educational value and the recreation and pleasure which it supplies. It would, there-

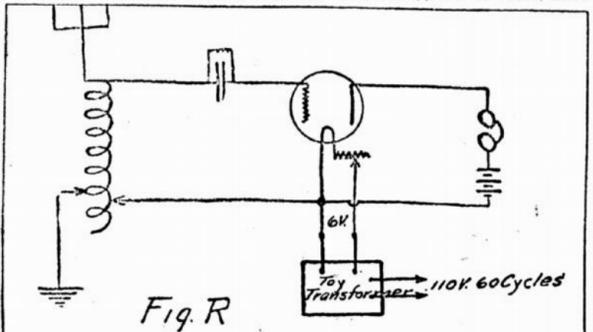


Fig. R

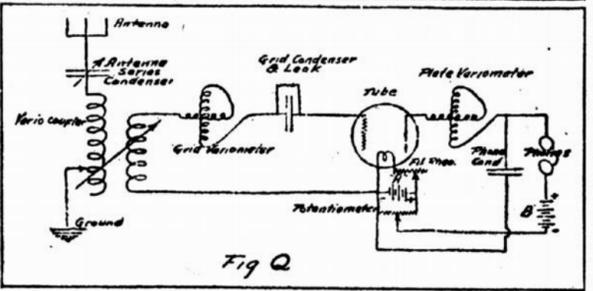


Fig. Q Regenerative Receiver

to use alternating current as source of filament current. There will always be present in the telephone receivers a 60-cycle hum, but by the use of certain circuits and auxiliary apparatus, this 60-cycle hum can be reduced to a minimum.

The use of alternating current as a source of power supply for the filaments of the vacuum tube has its greatest advantages in cheapness, low maintenance, and the small amount of space needed for its apparatus. A small stepdown transformer of such ratio as to reduce the house lighting current to six volts, and of sufficient capacity to light the filament of one tube, can be mounted inside a receiving cabinet as an integral part of the set.

The greatest disadvantage of using alternating current on the filament of a vacuum tube is the ever present 60-cycle hum, and since the supply circuit potential is not absolutely constant, the filament current will vary from time to time, making it necessary to frequently adjust the filament rheostat.

The simplest method of using alternating current for filament current supply is to connect the usual "A" battery leads from the receiver to a toy stepdown transformer which will deliver six volts, as shown in Figure R. This connection, however, will cause a very loud hum in the receivers. Even though the incoming signal will be just as loud as though direct current were used on the filament the alternating current hum is so loud that it will drown out the average signal. Standard vacuum tubes require a potential drop across the filament of approximately five and one-half volts.

Progressing from the circuit arrangement to one in which the grid circuit is inductively coupled to the antenna, we have the circuit shown in Figure Q. In this type of circuit arrangement all of the circuits are tuned and the vacuum tube functions simultaneously as detector, amplifier and oscillator.

The antenna oscillator circuit consists of a variable and the tapped primary of a transformer. By the use of a variable antenna series con-

RADIO FLASHES

Vaughn MacCaughy, head of Hawaiian public schools, is arranging to install standard receiving sets in all rural schools. Extension courses, especially in agriculture, will be broadcast from the University of Hawaii.

Broadcasting now appears as an aid to stenographic students, furnishing them with speeches for transcription in practicing to increase their speed. Several business schools are taking up radio receiving for their speed classes.

On the Pacific coast radio is being extensively used to sell Bibles. Lectures about the Bible are broadcast and an automobile rigged up with an antenna tours the section, giving sales talks by a radio loud speaker.

The famous long-distance radio station, Nauen, in Germany, is to be altered so as to increase its range and to meet the increasing traffic in the United States and Argentine republic. The plans include the erection of seven new masts, each 680 feet high, and the dismantling of four of the existing masts.

CITY NEWS IN BRIEF

The Minot schools and the Normal are enjoying a vacation this week. Mrs. B. F. Baker and daughter, Miss Mildred Baker, returned to their home at Glenburn Saturday.

H. G. Swenstad, employed in the schools of Devils Lake, is spending the holidays with his parents.

Anton Fallet, who is staying at the L. T. Larson home in Torning township, is reported ill with rheumatism.

Carl Mason, secretary of the Ward county fair, is spending his holiday vacation with his mother and aunt in New London, Wis.

Dr. Constans, Donnybrook physician, who has had a terrific siege of typhoid fever, is able to walk out, after weeks of lying in bed.

B. D. Barnett of Berthold was in the city Friday. He sent the Independent to his father at Rockville, Mo., for a year as a Christmas present.

The members of the Minot Volunteer fire department have installed a fine radio outfit and get many hours enjoyment receiving messages from distant points.

Mrs. L. T. Larson and son, Robert, accompanied Mr. Larson to their home in Torning township, where they are spending the vacation. Robert is a student at the Minot Normal.

The Minot postoffice force have about recovered from the Christmas rush of business. They report that the parcels were better wrapped this year than usual and the mailing began earlier.

The Minot schools are preparing a scrap book to be sent to the schools of Hawaii. This book will contain interesting pictures of our city and community and other sections of the state, together with interesting data.

John Huesers of the Dakota Transfer Co., has returned from the Asbury Hospital, Minneapolis, where he submitted to an operation on his shoulder. Following his service in the army, Mr. Huesers' shoulder has frequently been thrown out of joint.

A fine Christmas entertainment was enjoyed at the Lutheran church in Torning township Friday night. Rev. Mr. Anderson delivered an address and two of the schools of the township furnished the program. There was a Christmas tree with a Santa Claus and presents for all.

A surprise party was held for Mr. and Mrs. James Sillman of Torning township Saturday night. Dancing was enjoyed during the evening and refreshments were served. Music was furnished by Jesse Evans and Henry Pitts, with violins, and Mrs. A. Sillman at the piano.

Rolla Johnson, son of Mr. and Mrs. James Johnson, arrived from Slocan City, B. C., to spend the holiday vacation. His wife who has been visiting her parents in this state, joined her husband here. Mr. Johnson has been successfully engaged in the lumber milling business in British Columbia for several years and he had not been home for three years.

Ed King of Donnybrook was in the city on business Saturday. He informs us that two of his daughters, Lillian, 5, and Ruth, 16, are ill with typhoid fever. Mr. King is of the opinion that other water at Donnybrook is polluted with typhoid germs besides that used at the restaurant, for his daughters did not drink any of the latter water. An effort is being made to discover which wells are affected.

Dr. Sandberg and Babe Fall to Bottom of Stairway

Dr. Victor Sandberg, well known dentist, was painfully injured when he fell from the top of the stairs to the bottom, at his home on Third Avenue S. E., early Saturday morning.

Mr. Sandberg had but recently moved into the home which he purchased from G. A. Hassel and was not accustomed to the stairs. He was carrying the babe downstairs and stumbled. The doctor with the babe in his arms rolled to the bottom of the stairway. The doctor was severely bruised, the no bones were broken, while the babe escaped without any injury.

Scotfield to Convert Home into Apartments

A. P. Scotfield, the outgoing sheriff, will convert his large residence in this city into an apartment house, with six fine apartments, each of which will be provided with a private bath. Mr. Scotfield will occupy one of the apartments himself.

Infant Daughter Died

Anna J. Kloss, six weeks old daughter of Mr. and Mrs. Jacob Kloss of Burlington, died Sunday morning at a local hospital. The funeral was held the same afternoon with burial in Rosehill cemetery.

Stanley Man Died in Minot

Wallace Platt, age 62 years, an employe of the Great Northern railroad at Stanley, died Sunday at a local hospital. The remains were shipped to Stanley where the funeral was held.

E. E. Fecker's Father Died

Ernest E. Fecker, proprietor of Everybody's Meat Market, was called to his old home, Springfield, Minn., by the death of his father which occurred Monday night.

At Prison Gates

Warden—What's your name and occupation?

Prisoner—My name is Spark; I'm an electrician, and I was sent up for assault and battery.

Warden—Hey, Guard! Give this man a nice dry cell.

The Bismarck high school has decided to permit high school dances under faculty supervision.

Good equipment, handled by first class workmen makes the Independent's job printing plant a popular place for those in need of printing.

McGrath Cigar Factory Does Big Business

J. C. McGrath, who came to Minot from Portland, Maine, in October, to open a cigar factory on the second floor of the North American Creamery Building, is meeting with much success, which he no doubt deserves.

He manufactures one brand of cigars, the "Northern Light", in five shapes and sizes, using only the very best imported tobaccos. The Gamble-Robinson Co. are handling the entire output of his plant.

Mr. McGrath is working a good sized crew and business is growing daily. He was engaged in the manufacture of cigars for 17 years in Portland, Maine.

Mr. McGrath intended locating at Great Falls, Mont., but received a letter from Carl E. Danielson, president of the Minot Association of Commerce who painted Minot in such glowing terms that he stopped to look the city over. He considered this one of the best points for a cigar factory in the west, so decided to remain.

Verne Martin Praises Iron Range

Mr. and Mrs. Verne Martin of Virginia City, Minn., are spending the week in this city the guests of the former's mother, Mrs. Geo. Martin. Mr. Martin has nothing but praise for the Iron Range, Virginia City, with her 15,000 population, has an assessed valuation of 46 million dollars. The streets and alleys are all paved. The largest white pine saw mill in the world, with a capacity of a million feet a day, is located there. The mill is running at three-fourths capacity now. The schools are wonderful. There are free doctors for the sick children. Children are hauled to school in heated buses. They do not have to buy paper or pencils, and all books are furnished them. If they are underweight, they are given milk free. At noon they can buy a bowl of soup at the school for one cent, and sandwiches for two cents. Virginia City has a \$3,000,000 school building, while Hibbing's cost \$5,000,000.

Five-Year-Old Goebel Laid Shot and Killed Sister While Playing

Leonard Goebel, the five-year-old son of Mr. and Mrs. Lawrence Goebel, farmer living five miles northwest of Minot, shot and killed his baby sister, Elenora, aged one year and eight months, this evening, while the parents were at the barn doing the chores. The little boy had been playing with a .22 calibre rifle when it was accidentally discharged. The bullet entered under the right eye and caused almost instant death. The gun had been left under the stairway and the children found it. Coronor R. W. Pence decided an inquest unnecessary. The funeral services will be held Saturday, with interment in St. Leo's cemetery, Minot.

Appointment of B. E. Stewart Is Confirmed

The appointment of B. E. Stewart as postmaster at Minot, was confirmed by the U. S. Senate Friday afternoon. At the same time, the appointment of Justice Butler to the Supreme court was confirmed.

Amund Balerud and family of Readlyn, Sask., who left Minot ten years ago, are visiting relatives in this city. Mr. Balerud is making a big success of farming in Canada and next week this paper will contain an interesting account of how he does it.

Wekseth Funeral

The funeral of Mrs. Eimer Wekseth, who died last Thursday night, was held Sunday at 2:30 p. m. with services at the family residence, 438 Third avenue northwest, and final services at 3 o'clock at the Zion Lutheran church in charge of the Rev. J. R. Michaelson. A large number of friends and acquaintances of the deceased were present to pay their last respects and there were many beautiful floral offerings. Interment followed in Rosehill cemetery.

CLASSIFIED ADS

WANTED—To hear from owner of good farm for sale. State cash price, full particulars. D. F. Bush, Minneapolis, Minn. 12/28*

MONEY TO LOAN—On first mortgage security on farm land.

See P. V. Malm, care of Malm Machinery Co., Minot, N. D. 12/7-tf

LIGNITE—Burlington City Mine

Lignite, \$5.00 per ton delivered. Tom Waldon, Phone 858R, Minot, N. D. 12/7-4t*

FOR SALE—First class lignite, \$5.00 per ton delivered.

Phone 563. 12/14-tf

WANTED—To buy a few live, fat hogs and two year old cattle.

Stearns Motor Co., Minot, N. Dak. Phone 563. 12/14-3t

Estray Notice

Estrayed from my farm in Tolgen township one black colt coming three years old, star in forehead and white spot on nostril. Also one half-faced grey colt coming three years old. H. J. YULY, Burlington, N. D. 12/21-2t*

FOR SALE—The owner having moved from the city asks me to sell his residence property on Eighth ave. N. E. This is a very desirable property, situated two blocks from the new school house now being erected. It is modern, concrete and bath, full basement, concrete floored garage, south frontage, 72 foot, an ideal home. Now rents for \$40 per month—could easily get \$45 or \$50. This property is a bargain. Look it over. J. R. Falconer, care of Independent. 11-30tf

FOR SALE—4 Poland China Pigs; 1 Poland China Bred Sow. Miles Scribner, Burlington, N. D., R. R. 3. 12/28/t2-cg