



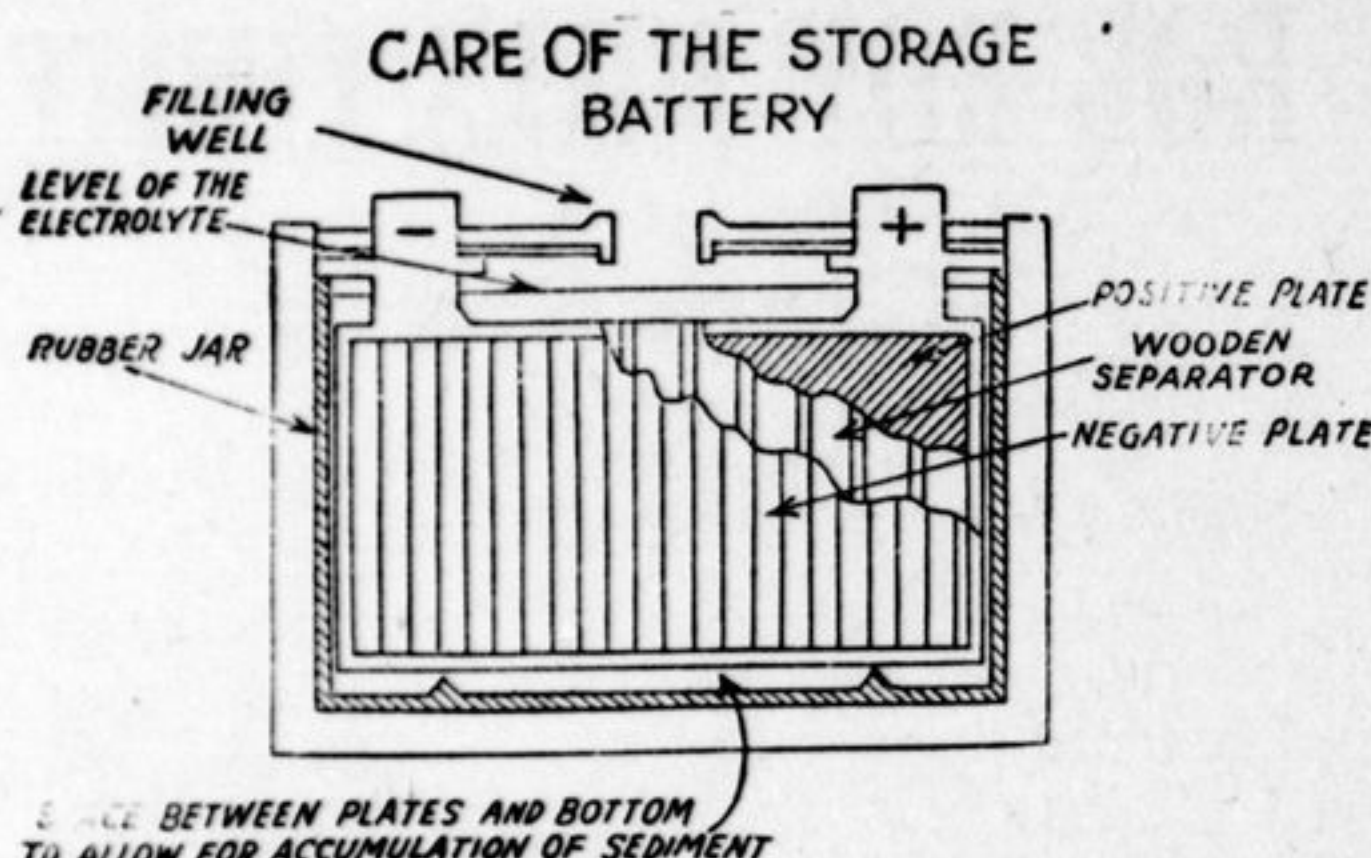
Care of The Storage Battery

By R. M. SHERRILL
(Radio Engineer)

The storage battery is a rather expensive part of the radio equipment. When the ordinary lead storage battery starts to deteriorate, the expense of having it taken apart and some minor thing repaired is almost as great as the original cost. Thus a little regular attention will greatly prolong the life of the battery, insure better operation, and save the cost of repairs.

The storage battery is made up of a number of cells, each of which consists of plates of lead and lead oxide. (negative and positive respectively) immersed in a diluted solution of sulphuric acid. (See cross section of cell in the diagram.) The sulphuric acid solution, or electrolyte, is a mixture of four parts of distilled water and one part of pure concentrated acid. The specific gravity of this solution, as measured by a hydrometer, is around 1.220. This electrolyte normally covers the plates in the cell by about 1/2 inch.

charge rate for every battery, and these rates are generally marked on the name plate. In general, a storage battery may be charged at a higher rate than normal for the first part of the charge. A charging or discharging rate which is too high, heats the plates and causes them to warp and short-circuit the cell internally. When charging, never allow the battery to warm up to more than 100 degrees Fahrenheit. There is no danger in charging the battery too long, as long as the above temperature is not exceeded.



CARE OF THE STORAGE BATTERY

As the water in the electrolyte evaporates, the level of the solution gets lower, and the strength of the acid becomes greater. If water is not added from time to time to make up for this loss by evaporation, the acid becomes strong enough to attack the plates

An explosion might damage the battery, and would at least splatter the acid about in a dangerous manner.

General Precautions

1. Inspect the battery regularly, noting the water level and the hydrometer readings.
2. Charge the battery regularly, keeping the hydrometer readings between 1.180 and 1.275.
3. Never charge or discharge the battery fast enough to raise its temperature to more than 100 degrees Fahrenheit.
4. Keep the top surface of the battery free from moisture and dirt, and keep the terminals free from corrosion.
5. Never allow the battery to remain discharged.

Care of Battery

Never let the storage battery become completely discharged, and under no circumstances allow it to remain discharged for any length of time. When allowed to stand discharged, a coating of lead sulphate is formed over the surfaces of the plates, and this coating prevents the battery from being recharged.

There is a normal charge and discharge rate for every battery, and these rates are generally marked on the name plate.

RADIO QUESTIONS AND ANSWERS

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

L. T. D. wants to know: "How many tubes would be necessary to make a loop antenna work a loud-speaker?"
Ans.—A two tube reflex arrangement with a crystal detector should give fair results on local stations.

Ans.—No, not if the transformer is properly designed. In general, it is better to use a low ratio throughout to avoid distortion.

ALBERTA COAL FOR LONDON

Alberta coal will be available for use soon in this district at a price to compare quite favorably with United States anthracite coal, according to William Buchanan, local dealer. In fact, Mr. Buchanan has sent an order to the Alberta Government for two full trainloads of this fuel, the one to be delivered in London and the other in Toronto, consisting of 4,000 tons in all.

THE HORSE

Oh, horse, you are a wonderful thing, no buttons to push, no horn to honk; you start yourself, no clutch to slip; you spark to miss, no gears to strip; no license buying every year with plates to screw on front and rear. No gas bills climbing up each day, stealing the joy of life away; no speed cops chugging in your rear, yelling summons in your ear.

Stripped in Action

As an urchin was entering her dressing room to deposit some laundry, the actress smiled and asked: "How did you ever lose your teeth, sonny?" "Shiftin' gear on a lollipop."

Strong Position Reported by Standard Bank of Canada

Total Assets Amount to \$83,520,820—Liquid Assets Stand at Over Forty Millions—Addition of \$150,000 to Reserve Fund, Bringing It Up to \$2,900,000.

A position of unusual strength and a position that will enable it to handle its full share of the business requirements of the country are the outstanding features shown in the annual statement of the Standard Bank of Canada. The report, which is for the year ending January 31st, is the first issued by the Standard Bank since the Sterling Bank of Canada was amalgamated with it.

other bonds, \$450,475, and total call and short loans, \$6,769,330, making the total in this department \$24,750,296.

The confidence enjoyed by the Bank among a large number of depositors is reflected by total deposits of \$63,432,377. These include deposits bearing interest of \$52,048,439 and deposits not bearing interest, \$11,383,938. The Bank's paid-up capital now stands at \$4,823,400 and the Reserve Fund, to which has been added \$150,000, now totals \$2,900,000.

The Profit and Loss statement shows that earnings, after providing for all charges and dividends, permitted of a liberal amount being added to the balance carried forward. The profit for the year, after deducting expenses, interest accrued on deposits and rebate on unmaturing bills, Provincial taxes, and making provision for bad and doubtful debts, was \$688,982.

Holdings of High Grade Securities.

The principal accounts included in liquid assets are a very large proportion of holdings in high grade securities. Dominion and Provincial Government securities amount to \$14,382,293; Canadian Municipal and British, Foreign and Colonial Public securities, \$3,148,197; Railway and

The efforts of the department of immigration and colonization are directed toward encouraging immigration of farmers and farm laborers, who do not arrive in numbers during the winter months. January immigration totaled 2,007, of whom 543 were British, 632 from the United States and 832 from other countries.

The Boy Scouts' Column

EDITED BY GREEN PLUME

Everybody is looking forward to the breaking up of this winter which has been long and steady; but probably no person wishes half as earnestly for the return of the balmy zephyrs of spring as the real, honest-to-goodness scout. The fellow who wants to get right out in the woods and fields again, and take another header off the old spring-board at the swimming-hole. The longing in the First Durham Troop takes the form of reminiscences of last summer's camp at White Cloud Island. Judging by the plans that are being made now, the whole troop will move up in a body.

In the meantime, the Troop is plugging along with its weekly meeting. Last Tuesday's turn-out was the best for weeks. Some of the fellows are making first-class progress with their tests. Ernest Neaves passed his First Class Aid tests, and a number of other scouts are ready to try.

The weekly hike was not a howling success on Saturday last owing to the severity of the weather. Old Man Winter had a very strong grip, much longer, and softer weather will soon prevail. The hike took the form of a tracking competition.

Illness
Two of the First Durhams are out of action these days. George (Slippery) Hay is recovering from a very severe attack of flu, and it will be some time before he is around as spry as usual. Clifford Moon (Moon-line) is recuperating from a dose of scarlet fever. It is very fortunately, not of a virulent type; but he will be in the house for some time yet.

A Scout is a Friend to Animals

The sixth Scout Law is one that is sometimes forgotten, although no fellow with any sense of decency would wilfully cause an animal pain. But very often a chap thoughtlessly kicks a dog, or pells a cat, or twists a cow's tail, or does something like that, more as an experiment to observe what the animal will do than to cause it pain. The pain results nevertheless, and the animal has as great a faculty for suffering as a human being. Here's another thing. Don't go out in the bush and shoot squirrels, chipmunks and birds just to see if you can hit them. Put yourself in their place and see how you'd like it. If you go hunting with the object of getting animals for food, or for their fur, it's quite a different thing. The sixth law is just as important as the rest. Practice it.

TWO D. H. S. TEAMS BEATEN AT MT. FOREST

Girls Lose 12-0, While Boys Held Opponents to 7-6.

On Friday of last week, the Durham High School boys' and girls' hockey teams journeyed to Mount Forest and were both beaten, the girls being trimmed the worst. The score was 12-0 in favor of the Mount Forest puck chasers. The latter aggregation has not tasted defeat this season and they are a very fine team and deserve their victories.

made to the Division of Bacteriology, Central Experimental Farm, Ottawa. Cultures are not sold, and the quantity supplied to any individual is limited to the amount specified above.

AVERAGE 14,000 IN IMMIGRATION

Total of 144,609 New Citizens in Last Ten Months—Many Are From U. S.—Exceeded Total From Britain in December and January.

Immigration to Canada, including Canadians returning from the United States, has averaged a little over 14,000 a month for the ten months of the fiscal year up to and including January, according to a statement just issued by the department of immigration and colonization. The total is 144,609.

Regular immigration, not including returning Canadians, amounted to 102,577, of which 49,363 were British, 13,721 from the United States and 39,493 from other countries.

For seasonal reasons, January represents a low point in Canadian immigration. The efforts of the department of immigration and colonization are directed toward encouraging immigration of farmers and farm laborers, who do not arrive in numbers during the winter months.

FIND BREEDER IS GUILTY OF FRAUD

Abraham Muhlhause Fined \$25 and Costs in Police Court—Produced Pedigree of One Animal and Exhibited Another Animal.

On Tuesday of last week, an interesting case was heard in the police court at Lion's Head. Magistrate McCartney of Warton was on the Bench, and Crown Attorney Freeborn of Walkerton represented the Crown, and H. G. Tucker of Owen Sound was present on behalf of Mr. Abraham Muhlhause, a well-known Easton Township farmer and stock breeder.

After a number of witnesses had given the evidence in the case, Mr. Muhlhause was found guilty, and fined \$25 and costs.

A Nice Assortment of GINGHAMS and CHAMBRAYS

- Nifty Crepe de Chine Handkerchiefs @ ... 49c and 25c
- Fancy Coat Linings @ ... 65c
- Curtain Material (extra value) @ ... 25c
- Ladies' Wool Finish Dresses @ ... \$2.99
- Linen Towelling @ per yd. 15c

GRANT'S DURHAM

Buy Your New Dress Goods and Gingham from

McComb's

Always a Good Stock of STAPLE and FANCY DRY GOODS, SHOES and GROCERIES
Agents for Butternut Bread
BUYING FOR CASH + SELLING FOR CASH = ECONOMY

WORKING GIRL'S EXPERIENCE

Read How She Found Help in Lydia E. Pinkham's Vegetable Compound

Arnprior, Ontario.—"I must write and tell you my experience with your medicine. I was working at the factory for three years and became so run-down that I used to take weak spells and would be at home at least one day each week. I was treated by the doctors for anemia, but it didn't seem to do me any good. I was told to take a rest, but was unable to, and kept on getting worse. I would sometimes pass three months, and when it came it would last around two weeks, and I would have such pains times in my right side that I could hardly walk. I am only 19 years of age and weigh 118 pounds now, and before taking the Vegetable Compound I was only 103 pounds. I was sickly for two years and some of my friends told me about Lydia E. Pinkham's Vegetable Compound, and when I had taken a bottle of it I felt a change. My mother has been taking it for a different ailment and has found it very satisfactory. I am willing to tell friends about the medicine and to answer letters asking about it."—Miss HAZEL BERNDT, Box 700, Arnprior, Ontario.

A day out each week shows in the pay envelope. If you are troubled with some weakness, indicated by a run-down condition, tired feelings, pains and irregularity, let Lydia E. Pinkham's Vegetable Compound help you.

PLANT RESUMES OPERATIONS

Hanover Cement plant, which has been idle for a considerable period, resumed operations Monday morning and it is expected that the mill will be operating at full capacity by April 1st. This provides employment for a considerable number of men.

TOWNSHIP OF BENTINCK

APPLICATIONS FOR THE POSITION of Road Superintendent for the Township of Bentinck will be received by the undersigned until noon Saturday, March 7th. The remuneration of the said official shall be at the rate of \$4.00 per day while performing the duties pertaining to said office.—J. H. Chittick, Clerk, Hanover, R. R. 3. 2 49 3c



Staunton Semi-trimmed Wallpaper Saves time

NO more scissors or straight-edge required for trimming wallpaper. No more sticky litter lying around when papering is being done. A quicker and a better job with wallpapers in the newest and most pleasing patterns and colorings, that cost no more than the old-fashioned sort.

We have ready for your inspection a complete new line of these STAUNTON SEMI-TRIMMED wallpapers. Drop in today or tomorrow and look them over.

John McKechnie
Durham - Ont.

Hugh Bride Suffers Severe Injuries to Head, Shoulders and Knee.

Hugh Bride, one of Palmerston's oldest citizens, was badly injured around the head, shoulders and knee when in a blinding snowstorm and heavy weather, he walked in front of a train of cars being operated over the crossing. Mr. Bride had allowed the train to pass over the crossing and did not see the other moving train toward him, and his escape from death was remarkable.

The crossing is protected by a C. E. Watchman, who did all in his power to have the injured man realize his danger before being hit. Blame whatever is attached to any individual in any way from Palmerston Hospital, where he is lying as well as the conditions of his injury will allow.

Palmerston Man Hit BY TRAIN AT CROSSING

Information has reached us of the death of William Crozier at his home in Youngstown, N. Y. He was forty-seven years of age, a brother of Mr. Ed. Crozier of Aberdeen.

The cutter that upset near Jackson's corner in upper town had only four occupants in it. The two young men with the other 'two' are now thinking over the old adage: "Two's company, three's a crowd, and four in a cutter is not allowed."

We regret to announce the prolonged illness of Mr. James Redford, who has been forced, for several weeks past, to abandon his work as bookkeeper in the furniture factory. We understand he has resigned his position and that Mr. Koch, one of the recently appointed teachers in the school here has been engaged to fill the vacancy.

On Saturday night last, Mr. and Mrs. Percy Lawrence were called upon to part with their little six-months old son.

Mr. Alex. Gordon received the sad intelligence of the death of his mother in Toronto.

Arthur Allan, son of Principal Allan, underwent an operation on Tuesday for the removal of pus from the lungs. Some time ago we reported him ill from typhoid and pneumonia, from which he has not fully recovered.

The home of Mr. and Mrs. Charles McArthur of Bunness is in sorrow over the death of their daughter, Annie Hays McArthur, who passed away on the first of March at Sara Falls, N. Y.

Mr. Alex. McCormick, superintendent of the commercial docks at the Canadian Soo, returned Monday after spending a short time at the home of his parents, near Aberdeen.

A successful box social was held at Louise on the 25th.

Corner Concerns correspondence. Messrs. Ritchie and Moore were given the contract for the repairing of the school house.