

**Wolverine News Brevities**

Grand Rapids—Persons interested in potato growing will make a tour of the Western Michigan "spud districts" from Aug. 17 to 24.

Port Huron—An increase of \$2,000,000 in the total crop yield of St. Clair county over that of 1921 is predicted by C. C. Peck, local banker.

Lansing—The state administrative board has authorized immediate commencement of the foundations for the new \$450,000 physics building at the University of Michigan.

Port Huron—A posse of farmers, many of them armed with shot guns, broke up a gypsy camp near here and recovered the loot of two robberies which they charge the gypsies committed.

Big Rapids—A. Bovick, 65 years old, of Chicago, a traveling man, died of injuries suffered when the automobile, in which he was driving, ran into a culvert, two miles north of Morley.

Flint—Flint's city council has raised the speed limit for automobiles to 20 miles an hour in residential districts and 15 miles in the business district, five miles an hour faster, for each section.

Ann Arbor—Delegates to the number of 2,500, representing American Legion posts from every section of this state, will meet here Sept. 5 and 6 in the annual state convention of the American Legion.

Detroit—Edward Tibago, 29 years old, was fatally injured when the belt of a machine on which he was working at the Northern Engineering plant, snapped. The belt struck Tibago's head, fracturing his skull.

Cadillac—Two hundred and forty-one residents of Cadillac have signed a petition to abolish the teaching of dancing in the public schools. Aesthetic dancing is included in the curriculum of the girls' physical training department.

Mt. Clemens—The cherry crop, which was expected to be one of the largest in years, practically has been destroyed by an influx of insects, which attacked the trees, killing many. The damage will amount to many thousand dollars, it is estimated.

Flint—Members of the Genesee road commission have begun the work of removing all advertising signs of every nature inside of right of way along all trunk roads, following state orders. Many signs are on trees and fences and obstruct the view of road signs for drivers.

Detroit—Michigan's youngest plaintiff in a damage suit is Jack Hasson, 19 months old, who has filed suit for \$50,000 against the city of Detroit. Little Jack lost his right foot at the ankle when run down by an M. O. Brule street car on May 27, and has since been confined to a Receiving hospital crib.

Lansing—Knights of the Ku Klux Klan, 40 strong, robed and masked, last week initiated three new members into the mysteries of the "invisible Empire" at a ritual held in a wooded district north of Lansing. The Klansmen were Lansing residents and those initiated were visitors from another Michigan city.

Ann Arbor—The old average of perfection in wheat has been raised by a local milling concern, which for the last week has been receiving wheat averaging 61 to 63 pounds to the bushel. The standard bushel has long been accepted at 60 pounds. A year ago it was difficult to secure wheat that would average 58 pounds.

Kalamazoo—In khaki knicker suits and a complete hiking paraphernalia Ruth and Eleanor Goddard, just somewhere between this city and their former home in Auburn, N. Y. They left their home with mess kits and cooking utensils for providing their meals out of doors and each took a blanket strapped across her back to sleep in at night. The girls expect to hike home in about six weeks.

Detroit—Something new in burglary, a white and a colored boy, each using a toy wagon to carry off their loot, was revealed here when Patrolman William Robns and John Hoffman came upon them after midnight in the grocery of Frederick Zelder, 4705 Beaubien street. At the back entrance the boys had "parked" their wagon. On the floor of the store they had piled a truck load of groceries.

Lansing—Another chapter in the fight centering around the state highway commission was written last week when the state administrative board decided to cut off the annual salary of \$3,500 of Thomas W. Bigger, of Marshall, who has been head of the commission since being legalized in Michigan. E. A. MacAuliffe, secretary of the commission, will remain in charge with the state department of public safety directing affairs.

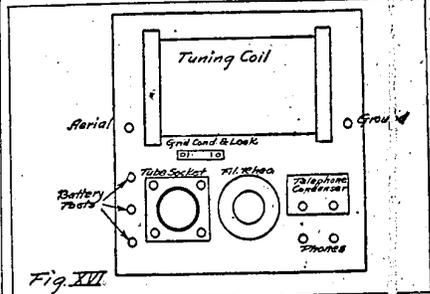
Lansing—A temporary plan for aged state employees was adopted last week by the State Administration Board. A resolution, offered by Frank Gorman, state treasurer, providing that employees who have worked for the state at least 15 years and are incapacitated for further duty, may be retired on half pay, was approved. Governor Greenback promised to take the matter of a permanent state pension law up with the 1923 legislature. No more than half a dozen employees will benefit by the temporary plan.

**RADIO**

**HOW TO CONSTRUCT SIMPLE RADIO SETS**

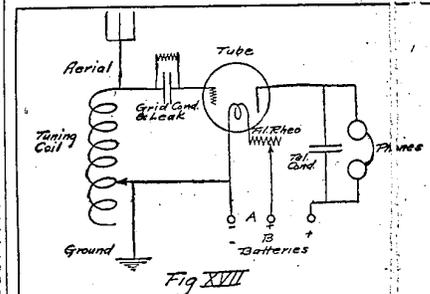
**Materials That Are Necessary and Method of Assembling and Mounting Them.**

For those who would like to construct a simple nonregenerative vacuum tube receiver, the details of several sets will be given, before turning up the explanation of the vacuum



tube as an amplifier. The circuits which will be described depend upon the vacuum tube for a detector or as a rectifier not having the additional function of an oscillator. The first set described will be that of a tuning coil mounted on a horizontal base board. The following material is necessary for its construction:

- One standard slider to fit 1/4 by 1/4-inch brass rod. Cost about 20 cents.
- One standard slider to fit 1/4 by 1/4-inch square brass rod. Cost about 20 cents.
- Two circular blocks of wood, whose diameter is just equal to the inside



diameter of the cardboard tubing and between 3/8 and 1/2 inch thick.

Three binding posts. Some orange shellac.

The Detector. A type U V Radiotron vacuum tube which sells for \$5.

The standard vacuum tube socket costing about \$1.

A filament rheostat of 6-11 ohms resistance costing about \$11.

A combination grid condenser and grid leak for the U V 200 Radiotron costing 50 cents.

In addition a phone condenser costing 50 cents.

One pair of Murdock No. 50 receivers costing \$2.

For mounting on base board: One piece of wood eight inches square.

One-fourth inch in from each end so that the rod is fastened in a piece; see that the contact finger on the bottom of the slider can at all times make good contact with the winding. Mount a binding post on either side of the coil, attaching one by means of a wire to the slider rod and the other to the end of the wire wound on the tube, and the tuning coil is complete.

Mounting the Set on Base Board. It is only necessary now to mount the component parts on the base board and connect them up.

Fig. 10 shows the relative positions of the instrument mounted on an eight-inch square base board, with the actual wiring diagram; Fig. 17 shows a schematic diagram of the wiring of the same set.

Five binding posts. This set requires, of course, an "A" battery to light the vacuum tube filament and a "B" battery to furnish the plate potential. The "A" battery should be a six-volt storage battery of not less than 20 ampere hours capacity. One 2 1/2-volt "B" battery unit is necessary for a source of plate potential.

Assembling the Coil. Starting one-half inch from one end of the cardboard tube, wind on the No. 22 DCC wire until within one-half inch of the other end of the tube. Fasten one end of the winding to the tube, but allow some surplus wire on the other end for making a connection. After the winding is in place apply a thin coat of orange shellac to hold the turns in place.

Assemble the circular-cut pieces of wood in the geometrical center of

square blocks and then shellac or varnish them for appearance's sake. When thoroughly dry slip the two end blocks into the wound tube and by means of a few finishing brads driven through the cardboard tube fasten the end blocks to the wound tube.

The slider is to be mounted on top of the coil and should be capable of making contact with any turn of the wire on the tube. In order to remove the insulation from the wire, just under the rod where the slider moves back and forth wrap a piece of sandpaper around a thin piece of wood as a guide, sandpaper the insulation from the winding.

Drill a hole one-eighth inch in diameter through the slider rod in diam-

eter through the slider rod in diam-



**No Thanks, I Must Have CALUMET**  
The Economy BAKING POWDER

- Never fails to produce pure and wholesome bakings.
- You save when you buy it.
- You save when you use it.
- If you buy big can or cheap baking powder you don't get the Calumet quality.



**The World's Greatest Baking Powder**

**CANADA HAS STEADY GROWTH**

Recent Census Shows Healthy Increase in Population Despite Losses Caused by War.

Canada's census for 1921 indicated a total population of 18,702,382, distributed as follows: N. B. 837,357; P. E. I. 238,330; Nova Scotia, 2,837,312; Prince Edward Island, 288,611; Quebec, 2,349,067; Ontario, 21,809,441; Manitoba, 213,008; British Columbia, 828,333; Yukon, 4,162; Northwest territories, 6,684, and Canada's navy, 485. The gain for the whole Dominion during 1910-1920, was 1,819,000 or 11.5 per cent. The war cost the lives of 56,880 Canadians killed in action, while 40,000 more died from indirect causes. The percentage increase in population is the same as that for Australia, while the increase for New Zealand 20 per cent was very little. In the Union of South Africa the increase was 10.2 per cent. The Provinces made the most pronounced gain in Canada, the membership of parliament will increase; Saskatchewan over 53 per cent. For the next ten years the unit of distribution for determining the membership of parliament will be 30,000. This total is arrived at by adding 65 the population of each province.

**GOLD TEETH OUT OF STYLE**

Present Trend is to Preserve Teeth and Make it Look as Much Like Original as Possible.

Gold teeth are going out of style, according to practitioners and dental experts. The present trend is to preserve the tooth to make it look as near as possible like it was originally. If this can't be done the offending molar or incisor must be pulled out. The idea of pulling teeth is something comparatively new in American dentistry. The tendency was to save the tooth at all costs. But dentists have discovered that gold crowns are unhealthful and permit foreign matter to get into the tooth. Bridge work also is not as popular as it once was. To make a bridge two good teeth were filed down as anchors for the mass of gold in between. If the bridge failed the two good teeth on the ends went with it. Now dentists recommend a plate of false teeth instead of the bridge. These being removable, are easily kept clean. The dental science is now spending its energies more on serviceable plates rather than on bridges or crowns.—New York Sun.

**WOULD TAKE MANY HEARSES**

Firms That Have Died Since Drop in Prices Would Make Large Funeral.

Suppose a general passed your house with 38,000 hearse, each hearse containing an American business firm. It would be impressive, wouldn't it? It would also give you an accurate idea of the number of business failures since prices began to tumble in May, 1920, notwithstanding they haven't tumbled so very much for some things. But don't get gloomy over it. Standing on curbstones watching their brethren go to Dun & Bradstreet's cemetery, are nearly 2,000,000 business organizations that have weathered the storm. In two years of severe depression only one business in every fifty-three has failed. The percentage of farmers that have gone broke is larger. Business failures have totaled about \$200,000,000 a year in liabilities. Assets have averaged about enough to pay 50 per cent on the dollar. The net loss has been about \$300,000,000 a year, or about \$3 a year for each American. Might be much worse, remarks Capper's Weekly.

Young and Fearful. "Mary, if you might have like that you will make your mother angry at you."

Little Mary—That don't scare me; she ain't my wife.

Going Down. Blackstone—Is your wife still reducing? Webster—If you mean my income—yes!

**GREAT PLANT IN MELBOURNE**

Australian City is Building Radio Station for Direct Communication With Great Britain.

The work of establishing the Melbourne radio station in Melbourne for direct communication with Great Britain has begun now.

The substations for overseas traffic will be about three times as powerful as any European station today. It will take two years before the central and feeder stations are completed. As a normal performance the chief station will be able to speak direct over 12,000 miles for the greater part of any working day.

Receiving and sending stations correspond will be built in Canada during the same period. The plant for the main station will be imported from England, but the plant for the feeder stations will be manufactured in Australia, one for each of the states.

The combined cost of all these stations will be about \$5,000,000. The main station will consist of a transmitter and receiver terminal thirty miles apart, the latter including two 45-foot towers each 800 feet high spread over a square mile. The wireless rates will be one-third less than the present cable rates to Europe.

**SHORT FLASHES**

San Francisco is relaying concert broadcast at S. J. Kennedy, N. Y.

In New York a squad of soldiers was drilled in an armory uptown on the command of a superior on Governor's Island.

At the Pacific coast seaside resorts, instead of enjoying themselves in the sun, the young ladies clamp on the earpieces and kill time between swims listening to radio talk.

Educational experts say that radio will prove of great assistance in the development of the minds of abnormal children. The greatest obstacle in their education has been inability to arouse interest. It is believed that radio will greatly stimulate such interest.

And now it is the dentist who are profiting by radio. It is a great advantage to keep the mind of a patient off his troubles. When a radio is placed in the clasp on what is placed on the ears of the sufferer shakes him more or less indifferent to what is going on in his mouth. Great possibilities for the soothing talker.



**Back to the Grain Fields for Health**

GRAPE-NUTS is a regular "three bags full" of the best food qualities of whole wheat flour and malted barley, carefully mixed and slowly baked—

- To develop all their appetizing flavor,
  - To preserve all their wholesomeness,
  - And to provide nature's "broom" that keeps the digestive system spick and span.
- There's not a bit of artificial sweetening in Grape-Nuts — it just becomes sweet of its own accord in the long baking.
- And that enticing flavor—how good it is with good milk or cream! Fruits, too, fresh or cooked, add to the delight of a dish of Grape-Nuts, morning, noon or sundown.
- It is a compact, ready-to-eat food—no cooking needed. Why not try it for tomorrow's breakfast?

"There's a Reason"

Postum Cereal Co., Inc., Battle Creek, Mich.