

OLD NOT SLEEP NIGHTS

and Headaches Relieved by Taking Lydia E. Pinkham's Vegetable Compound

Ontario.—"I was weak and with pains and headaches, I could not sleep nights. I learned Lydia E. Pinkham's Vegetable Compound by reading the letters in the papers and tried it because I felt better. I have got good from it as I feel a lot stronger not troubled with such bad things as I used to be and am more healthy. I am gaining in weight all the time and I tell my friends what medicine I am taking. You may write me as a help to others."—Mrs. RACHO, Box 12, Dublin, Ohio.

Nurse Recommends

—"I am a maternity nurse and I have recommended Lydia E. Pinkham's Vegetable Compound to many women who were childless, also to women who were not strong. I am glad to say that I am gaining in weight all the time and I tell my friends what medicine I am taking. You may write me as a help to others."—Mrs. S. M. M., 24 Union Street, Halifax, N.S.

The Queen Moved

Victoria stories appear to be really good. At least, there is a fresh crop of them. The Queen, who has recently moved to a new residence, is reported to have written his memoirs on an occasion when he was a member of a party on the night. The queen was seated at the table and she noticed that the sailor was gathering in groups and looking at her. She asked the captain and asked him the matter: was there a...

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ADDING CRYSTAL DETECTORS TO TUBE SETS

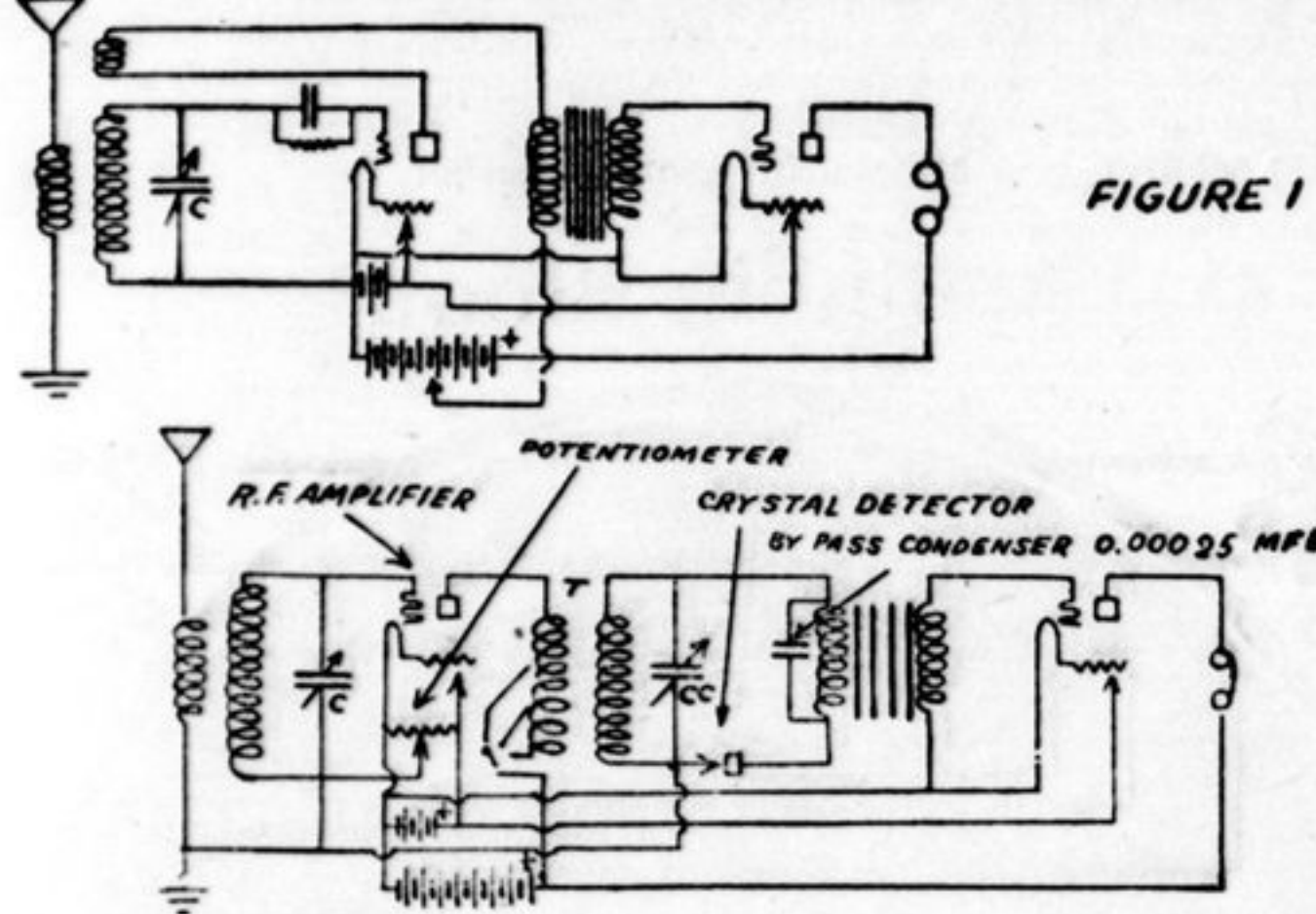
By R. M. SHERRILL (Radio Engineer)

It is a well-known fact that crystal detectors cannot be excelled for their quality of tone and quietness in detecting radio signals. There are a number of high grade tube sets on the market which continue to use a crystal in place of a tube for the detector.

Many of the sets now using tube detectors may be easily changed to use crystals. The tubes, which were previously used for detectors, may, if they are hard tubes such as the UV201A, be used as radio frequency amplifiers. With such an arrangement, a set will, with the same number of tubes but with a crystal detector, give as much volume as before, be quieter in operation, and be very much more selective. In addition, as all of the tubes are now acting as amplifiers, you do not have to fool with the tapped B battery for your detector plate voltage. Moreover, the grid condenser and grid leak are eliminated.

Take as an example, the tickler set shown in Figure 1. The second diagram shows how this same

CRYSTAL DETECTOR FOR TUBE SETS



circuit was converted into one with an R. F. amplifier and a crystal detector. The same number of tubes are used in both circuits. The extra parts needed are:

- 1 23 plate variable condenser. 1 Crystal detector. 1 R. F. transformer (home-made.) 1 200 Ohm potentiometer. 1 Switch lever and points.

It will be noticed that in the second circuit the tickler has been replaced by the new variable condenser C2, so that the total number of tuning controls remains the same.

Construction

The condenser tuned R. F. transformer T is very easily made. Care should be taken in its construction, however, in order to take advantage of the selectivity which is obtainable. The secondary consists of 50

of 0.00025 Mfd. The grid condenser from the original circuit may be used for this by-pass.

The potentiometer is for controlling the grid voltage of the first tube to prevent it from oscillating. When the slider on the potentiometer is moved over to the positive slide, the positive voltage, which is thereby applied to the grid, is what prevents the oscillation. The signals are the loudest, however, when the grid is as negative as possible without oscillation.

The taps on the primary of the R. F. transformer form a rough control of oscillation. It will be found that for the shorter wavelengths, a smaller number of primary turns should be used.

The rotary plates of both condensers should be connected to ground.

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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.

J. E. says: "I am not getting very good results from my electrolytic rectifier for charging batteries. How can I get a higher charging rate? I am using two 75 watt lamps at present. What strength of Borax solution do you use?"

Ans.—You can get a higher charging rate by adding another 75 watt lamp in parallel with the two you have at present. That is not advisable, however, as the higher rate will cause too much heating. Put as much Borax in the solution as will dissolve. Stirring the solution will dissolve the Borax faster.

M. S. T. asks: "Is it necessary for

the primary and secondary coils in a Superdyne receiver to be wound in the same direction?"

Ans.—No. The direction of the winding makes no difference.

H. G. wants to know, "If, in a receiver which has the panel and the inside of the cabinet shielded, it is all right to make the connections from the tube sockets directly to the shield. The shield is grounded to the negative side of the A battery."

Ans.—It is all right to make the negative A battery connections in the sockets in this way but be sure that everything else is well insulated from the shield.

PALMERSTON FIXES DATES TO COMMEMORATE JUBILEE

August 3rd and 4th Selected, With Possibility Also of August 2nd.

The celebration being staged to commemorate the 50th anniversary of Palmerston's incorporation as a town will be one of the best ever put on in that locality and will take the form of a re-union. The Palmerston Amateur Athletic Association, which has volunteered to control the arrangement, met on Monday night in connection with the selection of dates and the election of committees.

It was decided that two days as granted by the Council was hardly sufficient and also that the churches would benefit little by the two week days of attractions, and a committee was elected to meet the Council and ask them to grant a further day, Sunday, on which special religious services in all the churches would be arranged.

The dates were decided as Civic Holiday, August 3rd, and August 4th, with the Council's consent, August 2nd, Sunday, being added.

Judge: "Have you anything to say, prisoner, before sentence is passed upon you?"

Prisoner: "No, your lordship, except that it takes very little to please me."—Answers.

Weston's English Biscuits at McCOMB'S THURS., FRI., SAT. Mixed, Arrowroot and Creams per lb. 25c.

World News Seen At A Glance

Daily Events as Told by Cable Condensed for Busy Chronicle Readers.

Grettir Algarsson, the young British Columbian explorer who plans to make a dash to the North Pole by airship, racing Captain Roald Amundsen's airplane expedition, has arrived in Liverpool and is awaiting the blimp to be used by his party.

A Norwegian woman of science, Prof. Dr. Christine Bonnevie, claims to have evolved a method to determine by means of finger prints, the identity of the father of a child, in cases of doubtful fatherhood. She asserts that certain characteristics invariably recur in the finger prints of individual families.

The permission granted by the explorer Donald B. MacMillan by the Danish Government, it was stated in Copenhagen, comprises the right to visit and photograph the old Viking settlement in Western Greenland. The explorer, however, is prohibited from making excavations or removing matters of ethnographic interest.

Australia has expended almost £150,000,000 in connection with the re-establishment of its citizens who fought in the war, according to the government department having to do with the re-establishment. In a review of its activities, the department declares that no other country has been so generous as the Australian Commonwealth in its treatment of its returned soldiers.

Father Branislav Ousses, the Polish priest who was one of those to have been exchanged for the two Polish Communist officers recently murdered while en route to Russia under police guard, has been sentenced by the Leningrad District Court to six years imprisonment and strict isolation. He had been arraigned on charges of immoral treatment of young girls in his employ.

Eruption of the volcano Ometepe in Lake Nicaragua is showering ashes upon nearby agricultural districts and ruining the crops. Discharges of lava were flowing from the crater today.

A Reuter despatch from Rome quoting advices from Sicily says that Lady Marian Keith Cameron was accidentally wounded while replacing a revolver in its case in her hotel room. Lady Marian is the third daughter of the Earl of Huntingdon.

It is reported in Constantinople that Sheikh Said, the leader of the Kurdish rebels, has been captured by the Turks engaged in putting down the Kurdistan revolt. Sheikh Said and most of his chief followers, who were captured near Ghedi, will be court-martialed at Diarbekir, and probably hanged, according to a message from Ankara.

The French Chamber of Deputies, by a vote of 325 to 29, adopted a bill ratifying the convention with the Bank of France by which the legal limit of circulation is increased to 45,000,000,000 francs. The Chamber adjourned until 11 o'clock to allow the bill to go to the Senate.

"I am guilty, gentlemen, but hard though it may be, I want to die as a man." With these words, Fritz Haarmann, Hanover, Germany, butcher, convicted of the murder of 26 men and boys, stepped to the guillotine, and a moment later his head was severed.

The absence of the Nationalist members from the opening session of the newly elected Ulster Parliament was due to their announced intention not to take their seats until the boundary commission, which is studying the frontier question as between Northern and Southern Ireland, makes its report.

John Milne Barbour has been appointed Minister of Commerce in the Ulster Government, a position Edward M. Archdale has hitherto held conjointly with the Ministry of Agriculture. Mr. Barbour, who previously had acted as temporary Minister of Finance, has extensive business interests in Great Britain.

"Murderers should be treated as if they were man-eating tigers, and kept behind closed bars," declared Coroner Graham at an inquest in London, England, on two men who were hanged together in the jail at Durham. The coroner added that the dole paid to the unemployed was money wasted; it would keep all murderers, and the country would get better value than under the present system.

A Reuter despatch from Cairo says that the newspaper Al Siassah, learns from an authoritative source that the Italian Minister on Monday made verbal communication to the Egyptian Government of a request by the Italian Government for delimitation of the frontier between Egypt and Tripoli, in accordance with the agreement drawn up by Vittorio Scialoja, as Italian Foreign Minister, and Viscount Milner, as British Secretary for the Colonies.

One of the biggest fires in London, England, rivaling in intensity the blaze which last month destroyed the Tussau Wax Works, kept the firemen of London busy for hours on Tuesday night. It started in a varnish factory in one of the labyrinthine streets in the neighborhood of the old Kent Road. The flames spread to adjacent oil stores, and a waste depot, whose inflammable contents made a roaring blaze and illuminated all of South London.

The Duke of Devonshire, former Governor-General of Canada, who suffered a slight stroke of paralysis at his Irish estate, Lismore Castle, near Waterford, on April 12th, is recovering.

French war veterans late Saturday afternoon staged a mild anti-Caillaux manifestation at the Arc

de Triomphe in Paris against the return to power of the Present Finance Minister in the new Painleve Cabinet.

Four persons are known to have been drowned and several houses swept away when a dam burst at Skelmorlie Reservoir, near Greenock, Scotland, on Saturday.

The death list from the bomb outrage in the Sveti Kral Cathedral at Sofia Thursday had reached 160, including five members of the Bulgarian Parliament, it is stated in official despatches received in London on Saturday. Many of the wounded are expected to die.

The Italian Government on Saturday issued a proclamation ordering all the stock exchanges throughout Italy to remain closed on Saturday and today. This measure is intended to cope with the continued agitation among the traders against the Government reform measures.

Former Premier Herriot has consented to stand for the presidency of the French Chamber of Deputies, a 100,000-francs job to which a white elephant attaches in the form of an expensive mansion adjoining the Chamber, where the President lives and for the upkeep of which he must pay a large share.

Only about 50 per cent of the Scottish workers are in the trades union movement, according to a report that has been presented at the Scottish Trades Union Congress. The report states that the Lothians and the border counties make a better showing in connection with trades unions than what is described as the "wild west."

Austria has requested the League of Nations to appoint a committee of impartial experts to make an investigation of her economic and financial situation. Austria, which is under the financial control of the League, recently was criticized by the Council for failure to incorporate certain reforms that would lead to eventual liberation from supervision by the Geneva authorities.

A massive mallet, significantly painted red, has been sent by an anonymous donor to the Lord Mayor of Birmingham. Proceedings at the City Council meetings have been turbulent recently, and the Labor Lord Mayor, Alderman Percival Bower, asserted the authority of the chair so vigorously at the last meeting that the ceremonial ivory mallet, with which he is armed, was shattered.

Heavy earthquakes were reported at 4.32 Friday morning on Formosa Island. The damage was slight. At the same time, a minor earthquake was felt in Tokio.

The funeral of John Singer Sargent was held Saturday and was strictly private, and attended only by relatives and close friends of the artist. Burial will be in Brookwood cemetery at Woking, twenty miles from the capital. Memorial services will be held in Westminster (Continued on Page 10)

DURHAM HIGH SCHOOL

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Problems of the Farm

Contributed by Grey County Department of Agriculture

Keeping Turkeys

Turkey raising is not the difficult matter that many believe it to be, writes Mr. A. G. Taylor, of the Poultry Division, Dominion Experiment-Station, who itemizes the essentials to success in this line of poultry keeping as follows: Well-drained soil, free range, well-developed, healthy, unrelated breeding stock, and palatable foods properly and regularly fed.

The birds are not confined to houses, and for winter nights require only the shelter of a straw-barn or closed-in shed. Nor is the feeding an expensive matter. Turkeys, especially the bronze, which is our largest and most popular breed, are great foragers and gather much of their food from the fields. Altogether there is little labor required in keeping a flock; a small initial investment will provide a suitable start, and the market for dressed turkeys is good both at Thanksgiving and Christmas.

A bulletin written by Mr. Taylor entitled "Turkeys—Their care and Management," (No. 46, New Series), is now in the press. In it are to be found a discussion of breeds, practical directions for successfully managing a whole flock, and notes on the prevention and cure of disease. Copies will be sent free on application to the Publications Branch, Department of Agriculture, Ottawa.

Potassium Iodide and Its Significance in the Feeding of Live Stock

It has been well proven that potassium iodide is one of the most useful drugs in connection with the treatment of many animal diseases. As a preventive to several common ailments with different classes of stock, it has a peculiar significance, writes G. B. Rothwell, Dominion Animal Husbandman.

- 1. For the prevention of hairless litters, the following procedure may give good results where trouble of such nature is common or where it may be anticipated.—Dissolve one ounce potassium iodide in one gallon of water. In the feed of each pregnant sow, mix one teaspoonful of this solution per day. 2. For the prevention of goitre in lambs in districts where this affec-

tion is prevalent, the drug has given wonderfully certain results. The following plan is suggested: Spread 150 pounds of thoroughly dry salt evenly and in a thin layer on a clean floor. Dissolve 6 to 8 ounces of potassium iodide in warm water, using the minimum amount of water required to dissolve the drug. Sprinkle or spray this solution over the layer of salt which, if it is thoroughly dry, will take up the liquid; then mix thoroughly. Place this iodized salt before the ewes where they may have access to it during the winter months and up until lambing. Another plan, not so practicable, is to apply some 30 drops of tincture of iodine to the skin of the ewe every two weeks during pregnancy. The wool should be carefully parted so that the fluid may be certain to reach the skin and thus be absorbed and a different part of the body should be treated each time.

3. For pregnant mares, potassium iodide apparently gives good results as a preventive of joint ill in foals and seemingly has an effect on foal weaknesses generally. Dissolve half a teaspoonful of potassium iodide in a small quantity of water and administer this in the drinking water weekly. Another plan is to use similarly one level teaspoonful of the drug twice monthly, say on the first and fifteenth. The former method is probably the safer. This treatment should be applied during the winter months of pregnancy, beginning with say, November. Good results may be anticipated.

4. For pregnant cows, potassium iodide is recommended and may be fed with the salt as per directions given for the feeding of this drug to ewes. While potassium iodide used in this way should not be considered as a preventive of abortion, results would indicate that it has a desirable effect on the system from the standpoint of normal calving later on. In cases where trouble is prevalent in the herd, the adoption of this treatment is to be recommended, although results might not be apparent for a year or two.

Where stockmen have experienced difficulty during this season particularly with hairless litters and goitered lambs, the use of potassium iodide should be kept in mind for another season.

Which or What?

Distracted Wife (at bedside of sick husband): "Is there no hope, doctor?" Doctor: "I don't know, madame. Tell me first what you are hoping for."

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