

**GIBRALTAR:** Britain's sentry-box in the Mediterranean. "A Visit to Gibraltar" is the subject of an episode in "His Lordship's Memoirs," to be heard from 4YZ on Wednesday, September 6

## 4YZ INVERCARGILL 680 k.c. 441 m.

- 7. 0-9.0 a.m. Breakfast session
- 11. 0 Recordings
- 12. 0-2.0 p.m. Luncheon session
- 5. 0 Light music
- 5.30 Children's session: "Robin Hood"
- 5.45 Tunes of the day
- 6.15 "Robinson Crusoe"
- 6.30 The Hill-Billies
- 6.45 "The Rich Uncle from Fiji"
- 7. 0 After dinner music
- 7.30 Station announcements
- 8. 0 Gardening talk
- 8.15 "Soldier of Fortune": First episode
- 8.41 A study in contrasts
- 9. 0 His Lordship's Memoirs: "A Visit to Gibraltar"
- 9.30 Swing session
- 10. 0 Close down

## 3ZR GREYMOUTH 940 k.c. 319 m.

- 7. 0 a.m. Breakfast session
- 9. 0 Morning programme
- 10. 0 Weather report
- 10.30 Devotional Service
- 12. 0 Luncheon music
- 1. 0 p.m. Weather report
- 1.30-2.0 Educational session, from 3YA
- 3. 0 Afternoon programme
- 4.30 Weather and shipping news
- 5. 0 Children's session, at 5.45, "Westward Ho!"
- 6. 0 Dinner music
- 6.30 News and reports
- 7. 0 Louis Levy and his orchestra, "Head Over Heels" selection
- 7.7 "The Circle of Shiva" (episode 1)
- 7.20 Hits and encores
- 7.50 Featuring grand massed brass bands
- 8.15 "Rose Marie"
- 8.23 Gems from "The Girl From Utah" and "Very Good Eddie"
- 8.31 Search for a Playwright
- 8. 0 Personalities on parade
- 8.30 Meditation music
- 10. 0 Close down

## 2YH NAPIER 760 k.c. 395 m.

- 7. 0-9.0 a.m. Breakfast session
- 11. 0 Light music
- 12. 0-2.0 p.m. Lunch session
- 5. 0 Light musical programme
- 5.30 Uncle Charlie and Aunt Nin
- 6. 0 The Japanese houseboy
- 6.15 "Khvber" (episode 14)
- 6.45 Weather report and forecast for Hawke's Bay
- Stortford Lodge Market Report

- 7. 0 After dinner music
- 8. 0 Light musical selections
- 8.10 Recorded talk, "Historic N.Z. Estates": "The Bidwills in the Wairarapa." Speaker, Douglas Cresswell
- 9. 0 Operatic and symphonic programme
- 10. 0 Close down

## 2YN NELSON 920 k.c. 327 m.

- 7. 0 p.m. "John Halifax, Gentleman" (episode 3)
- 7.15 Light music
- 8. 0 Concert programme: "What Listeners Like"
- 9. 0 Band programme
- 9.30 Eb and Zeb
- 9.40 Light music
- 10. 0 Close down

## 2YD WELLINGTON 990 k.c. 303 m.

- 7. 0 p.m. Cocktails
- 7.35 Here's a Queer Thing
- 7.45 The Kingsmen
- 8. 0 "Is New Zealand Rugby Deteriorating?": Charlie Oliver, vice-captain 1935 "All Blacks" in Great Britain discusses "The Deterioration—if any—since 1930"
- 8.15 Records at random
- 8.40 2YD trailer
- 8.45 Rhythm is our business
- 9. 0 Stars of the musical firmament
- 9.20 Syd Walker wants to know
- 9.30 Night Club: Cabaret show with Horace Heidt and his orchestra
- 10. 0 Close down

## 12M AUCKLAND 1250 k.c. 240 m.

- 5. 0 p.m. Light orchestral and popular recordings
- 6.45 News, announcements
- 7. 0 Orchestral
- 7.45 "Search for a Playwright"
- 8. 0 Peep into filmland with "Billie"
- 9. 0 Swing music
- 9.20 Hawaiian and popular melodies
- 10. 0 Close down

# Boys and Girls...

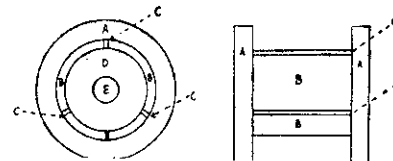
This corner, all you young folks, is for you and your interests. This is where we tell you, week by week, about what is being put over the air for you, just as the grown-ups have their own pages with their own programmes. So make sure that you, too, "Look Before You Listen."

## HOW TO MAKE AN ELECTRIC MOTOR—Mostly From Odds and Ends

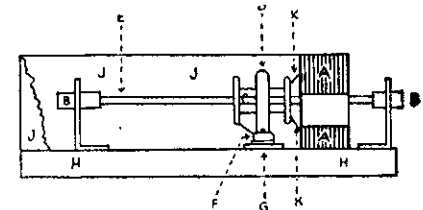
### PART II.

(By "Modelmaker," who will broadcast from 1YA on September 5)

THE commutator of an electric motor seems to me the hardest part to make. On the drawing, A are the large ebonite washers, B the copper tubing, C are cuts dividing the copper tubing into three equal parts, D the ebonite centre and E the eighth-inch hole the axle comes through.



The building details of this motor will be broadcast on September 5.



### For Your Entertainment

#### SUNDAY:

- 1YA: 6 p.m. Children's Song Service
- 2YA: 6 p.m. Children's Song Service, conducted by Uncle William.
- 3YA: 5.30 p.m. Children's Song Service, conducted by Pastor J. S. Binnie.
- 4YA: 5.30 p.m. Children's Song Service, conducted by Big Brother Bill.

#### MONDAY, 5-6 p.m.

- 2YA: Talk by Ebor on Nicknames: Special Talk for Scouts.
- 3YA: Stampman: Part 1 of "Sir Christopher Wren"
- 3ZR: Legends of Umbogu: "The Story of the Owl."

#### TUESDAY, 5-6 p.m.

- 1YA: Talk by Modelmaker.
- 2YA: "The Major" tells about Egypt.
- 3YA: Tiny Tot's Corner—Harmonica Band.

#### WEDNESDAY, 5-6 p.m.

- 2YA: Chief Operator gives a Further Talk on the Control Room.
- 3YA: Kay and the Book Lady.
- 4YA: Travel Man.

#### THURSDAY, 5-6 p.m.

- 2YA: Games Night.
- 3YA: Rainbow Man and the Kiwi Club.

#### FRIDAY:

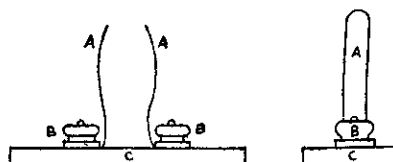
- 2YA: 5-6 p.m. Talk by Traveller on "Freighters and the Queen Mary."
- 2YC: 8 p.m. Continuity programme featuring compositions for Children written by well-known composers.
- 3YA: 5-6 p.m. "Niccolo" and Puzzle Pie.

#### SATURDAY, 5-6 p.m.

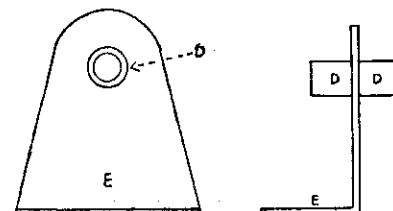
- 2YA: Swingtime Harmonists in special programme for children.
- 3YA: Riddleman and "Eyes of the World."

I expect many of you have an old crystal or battery radio set lying around that has an ebonite panel. If so you could make several small washers a quarter of an inch in diameter with  $\frac{1}{8}$  in. hole in the centre for the axle to come through. This would do away with the ebonite rod. The washers A have 5-16 in. holes drilled in them and fit over both the copper segments, and the ebonite centre.

The brushes are made from spring copper, such as may be found in old electric light switches or sparking coils. Spring brass could be used. In the drawings below, A are the brushes, B the terminals, C the ebonite on which the brushes are mounted.



The bearings are made from the 3-16 in. brass tubing and from the hoop iron or heavy tin. D is the tubing and E the iron. The iron is cut and bent to the shape shown.



Below is a small drawing of the layout of the motor. The magnet is broken away so that the inside of the motor can be seen. A armature, B bearings, C commutator, D one of the brushes (there is one pressing against each side of the commutator), E axle, F terminal, G ebonite base of brushes, H baseboard, J magnets, K wires from armature to commutator.