



G. T. ALLEY, 1928 *All Black*, who speaks from 2YD on Wednesday evening, August 30, in the series "Is New Zealand Rugby Deteriorating?"

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: "Friar Tuck Pays a Call"
- 5.45 Tunes of the day
- 6.15 "Robinson Crusoe"
- 6.30 A bracket of basses
- 6.45 "The Rich Uncle from Fiji"
- 7. 0 After dinner music
- 7.30 Station announcements
- 8. 0 Gardening talk
- 8.15 Singapore Spy (final episode)
- 8.42 Songs from Italy
- 9. 0 His Lordship's Memoirs: "Salvage Operations"
- 9.30 Swing session, compered by Frank Beadle
- 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
- 10.10-10.30 Devotional service
- 12. 0-2.0 p.m. Luncheon music
- 1. 0 Weather report
- 3. 0 Afternoon programme
- 4.30 Weather and shipping news
- 5. 0 Children's session. At 5.10, "Musical Movements" by "Redge, the Piano Ace" and Norma
- 5.45 "Westward Ho!"

- 6. 0 Dinner music
- 6.30 News and reports
- 7. 0 Louis Levy and his orchestra
- 7. 7 "Marie Antoinette" (episode 14)
- 7.20 Hits and encores
- 7.45 "The Crimson Trail" (episode 29)
- 8. 0 American Legion Band
- 8.30 "The Fourth Form at St. Percy's"
- 8.45 Musical all sorts
- 9.30 Gems of 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 Khyber (episode 13)
- 6.50 Stortford Lodge Market Report
- 7. 0 After dinner music
- 8. 0 Light music
- 8.12 Talk: "Historic N.Z. Estates," "John Grigg of Longbeach," by Douglas Cresswell
- 8.30 Dance music
- 9. 0 Operatic and symphonic excerpts
- 10. 0 Close down

2YN NELSON 920 k.c. 327 m.

- 7. 0 p.m. "John Halifax, Gentleman" (episode 2)
- 7.15 Light music
- 8. 0 "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: A "Strange As It Seems" series
- 7.45 The Kingsmen
- 8. 0 "Is New Zealand Rugby Deteriorating?" G. T. Alley, "All Black" lock-forward in South Africa, 1928
- 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, a cabaret show with Ted Weems and his orchestra
- 10. 0 Close down

1ZM AUCKLAND 1250 k.c. 240 m.

- 5. 0 p.m. Light orchestral and popular items
- 6.45 News, announcements
- 7. 0 Orchestral and organ music
- 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

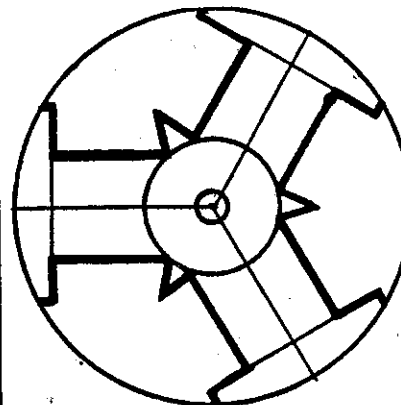
PART I.

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

IT has often both worried and puzzled me how you have been able to follow all the building details that have been given from time to time. Our discussion on September 5 will be on the building of what is known as a permanent magnet electric motor. By the time this broadcast takes place you should have been able to gather together all the materials necessary to make it. You will also have the plan of the armature stampings and a drawing of the motor and the commutator. The following is the list of materials required to make the motor:—

- 1 magneto magnet.
- 2 terminals (off an old radio set will do).
- 1 piece of spring copper (for brushes).
- 1 piece of copper tubing, 5-16th-in. diam. and 1in. long (for commutator).
- 1 piece of brass tubing 3-16th-in. diam. and 2in. long (for bearings).
- 1 piece of steel rod 1/8in. diameter and 6in. long (for axle).
- 1 piece of ebonite rod 1/4in. diameter and 1in. long (for commutator).
- 1 piece of ebonite panel from an old wireless set (for commutator and brush stand).
- 1 reel of 28 gauge enamelled copper wire (for winding armature).
- 1 piece of steel 1/4 x 3/4 x 2in.
- 1 dozen small wood screws.
- 1 baseboard, 6 x 3 x 1in. (wood).
- 2 dozen flat tobacco tins (to cut armature stampings from).
- Small piece of strong hoop iron or heavy tin (for bearing holders and holding magnet in place).
- Some tissue paper (for insulation).
- Shellac and methylated spirits.
- Small nails (for riveting the armature stampings together).

Below is a pattern of the armature stampings. Glue the pattern to a strong piece of cardboard and cut out along the dark lines. I have left in the lines show-



ing how I drew the pattern in case there are some of you who would prefer to draw your own. You may not want to cut the magazine, and if so, you could trace out the pattern or even use carbon paper. After you have made your pattern on the cardboard make a tin one and use this for marking your other tins. An 1/8th in. hole is bored in the centre of each one.

Next week I will tell you about the commutator and the bearings.

Gracie and the Monkeys

There used to be a song that went, "My Brother Makes the Noises for the Talkies." Well, if one works in a radio station one realises how useful that sort of brother would be. He could make noises not only for the "talkies" but for the serials which are produced during the children's sessions at 3ZB. In the "Swiss Family Robinson" there was an episode in which the screaming of angry monkeys was needed. It was hard to find a noise that sounded like angry monkeys. Finally Gracie did the screaming herself. She made an excellent job of it, too.

For Your Entertainment

SUNDAY, 6 p.m.

- 1YA: Children's Song Service.
- 2YA: Children's Song Service, conducted by Uncle William.
- 3YA: Children's Song Service, conducted by Rev. Ralph Byers.
- 4YA: Children's Song Service, conducted by Big Brother Bill.

MONDAY, 5-6 p.m.

- 2YA: Special Talk for Scouts.
- 3YA: Stamp Clubs "School Boy Rovers."
- 3ZR: Legends of Umboga: "The Story of the Fowl."

4YZ: 5.30 p.m.: Tanglewood Tales.

TUESDAY, 5-6 p.m.

- 2YA: Talk by Benno, a Swiss boy.
- 3YA: Tiny Tot's Corner: Harmonica Band.

WEDNESDAY, 5-6 p.m.

- 3YA: "Uncle Allan's Lucky Dip," with, at 5.45 p.m., Talk by Mr. C. E. Iversen: "Agriculture, a Career for Boys."

4YA: Travel Man.

THURSDAY, 5-6 p.m.

- 3YA: Rainbow Man and the Kiwi Club.

FRIDAY, 5-6 p.m.

- 3YA: "Niccolo," and at 5.45 p.m., Talk by Mr. H. C. Dillon, "Shopwork: A Career for Girls."

SATURDAY, 5-6 p.m.

- 2YA: Original Play: "The Nightingale," by Mrs. Holthouse.
- 3YA: Cousin Nessie: "Eyes of the World."