the wing in the usual manner making sure to cement all joints well. The wing gussets are cut from plywood and the two wing halves are joined together. The leading edge is now covered with sheet and the ribs cuffed. The wing should be sanded smooth and cemented in place securely to the fuselage bulkheads. Landing gear is then bent to shape and bolted in position. Cut gear fairings to size and cement to the wire gear remembering that the landing gear, being subject to constant strain, will have to be cemented well. It is wise to silk the fairings as this bonds the entire gear.

Install the ignition making sure all wiring connections are soldered well to ensure complete success in engine operation.

Complete the fuselage by adding stringers. Assemble the lower cowling. Carve the headrest from soft balsa and cement to fuselage. The upper engine cowling is carved to the plan and hollowed to accommodate the engine used. Install the control system and see that it works free.

The stabilizer is cut to outline and sanded to shape, making sure that the section is carried out the entire length. Cut in half to construct elevator and stabilizer. Cement the silk hinges in place and attach to the fuselage. The rudder is made in the same manner and cemented directly to the fuselage.

The ship may now be covered and in order to obtain perfect results sand the entire structure smooth. Cover the fuselage with as many small pieces as possible. To ease this tedious job apply the covering wet for greater pliability.

Dope the ship should be done in a dry room. To allow the dope to flow rather than streak, thin it 50%. The lettering is best applied with flat black. Add the flying wires and the ship is complete.

Test flights are made with the least possible wind. Be sure to have the rudder offset as this tends to have the ship fly away from the operator thus keeping the lines tight and insuring complete control of the ship at all times.

**MATERIALS USED**

- Bulkhead A: 1/8 Plywood
- Bulkhead A-1: 3/8 Pine
- Bulkheads B to J, etc.: 1/8 Balsa
- Spinner: Pine
- Stabilizer: 1/4 Soft sheet balsa
- Rudder: 1/2 Soft sheet balsa
- Wings Tips W-1, 2 & 3: 1/8 Sheet balsa
- Wing Ribs: 1/16 Sheet balsa
- Wing Gussets: 1/16 Plywood
- Wing Spars: 1/8 Square Hard Balsa
- Leading Edge: 1/4 x 1/2 Hard Balsa
- Trailing Edge: 3/16 x 1/2 Hard Balsa
- Headrest: Soft balsa
- Cowling: Soft balsa, hollowed
- Covering: Paper, silk can be used
- Wheels: Hardwood for flying but use airwheels for preliminary tests