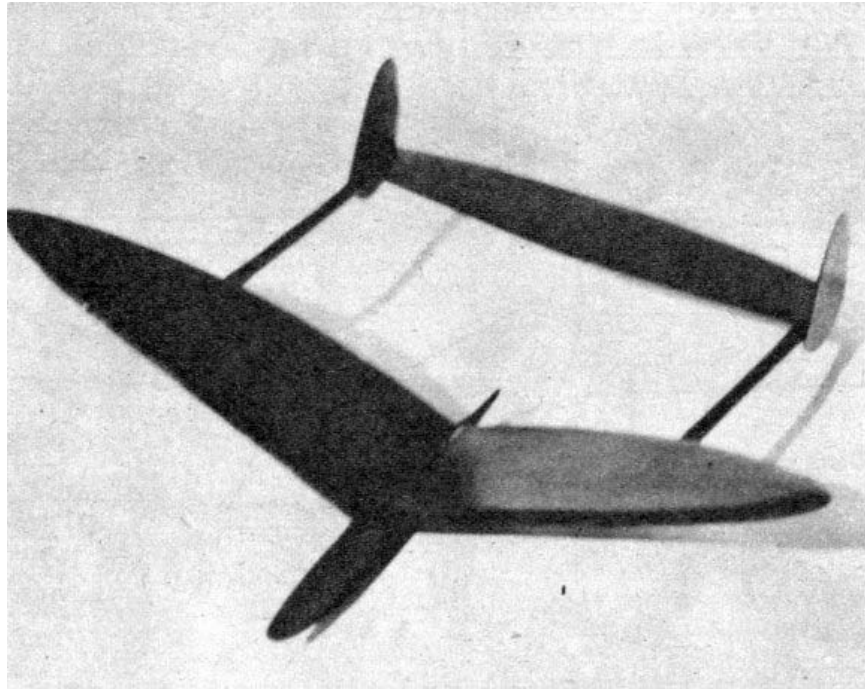


SOMETHING NEW in Hand-Launched GLIDERS

BY AUSTIN RINALDI



This all-balsa boom job is of simple construction, cheap to build. It flies well hand-launched or catapulted, in either calm or breezy weather.

ARE you looking for something different to build in handlaunch gliders? Well, here is the ship for you. It's different, attractive, and turns in good flights. It is of simple construction and costs little to build. This ship can be built in a night and is easily adjusted. It is like an ordinary glider, but with two booms extended from under the wings. It is adjusted as any other ship and built in the same manner, so if you have ever made a glider, you can turn out this one without any trouble at all. Its high tail and twin rudders enable it to be catapulted, by adding a wire hook under the body. It's just the ship for all-around flying. It flies well when handlaunched, catapulted, on a calm or breezy day. So look at the plan and bill of materials and start building.

CONSTRUCTION

To get started, cut out the patterns and use them as they are, for plans are full-size. Trace the wing pattern on a sheet of 1/8 x 3" medium-hard balsa and sand to airfoil section given on plan. Glue in dihedral, which is two inches, and allow to dry; then finish wings with either clear or colored dope, or

glider polish, whichever you prefer. Next, trace body pattern on a sheet of 3/16" medium-hard balsa and sand to cross section indicated on plan. Rub in a coat or two of glue and polish. Glue the wing on the body and set aside to dry. Cut out the two booms, which are 1/4" square, sand to cross section, also given on plan, and glue them in place on the wings (making sure they are glued in proper position under wing). Next step is the stabilizer and rudders. Trace these patterns on a sheet of 1/16" medium-hard balsa and sand to airfoil section as on plan. Rudders and stabilizer are polished like the wings. The stabilizer is glued in place on top of the booms, and the rudders are glued on the sides of booms. Make sure the stabilizer is set at zero degrees incidence. When ship is finished, wax the whole plane and it is ready to fly.

FLYING AND ADJUSTING

Take the ship out to your favorite flying spot and test-glide it, adding clay to the nose to balance it. When you obtain a long flat glide, give the ship a heave into the air and watch it soar around. For best launching, put one finger behind the left wing,

gripping body with thumb and middle finger, and throw into the air, giving the ship a little bank. A higher altitude may be obtained by taking a little clay

off nose and adding a little positive to stabilizer. Well, from here on it is all yours, fellows, and lots of luck.

BILL OF MATERIALS

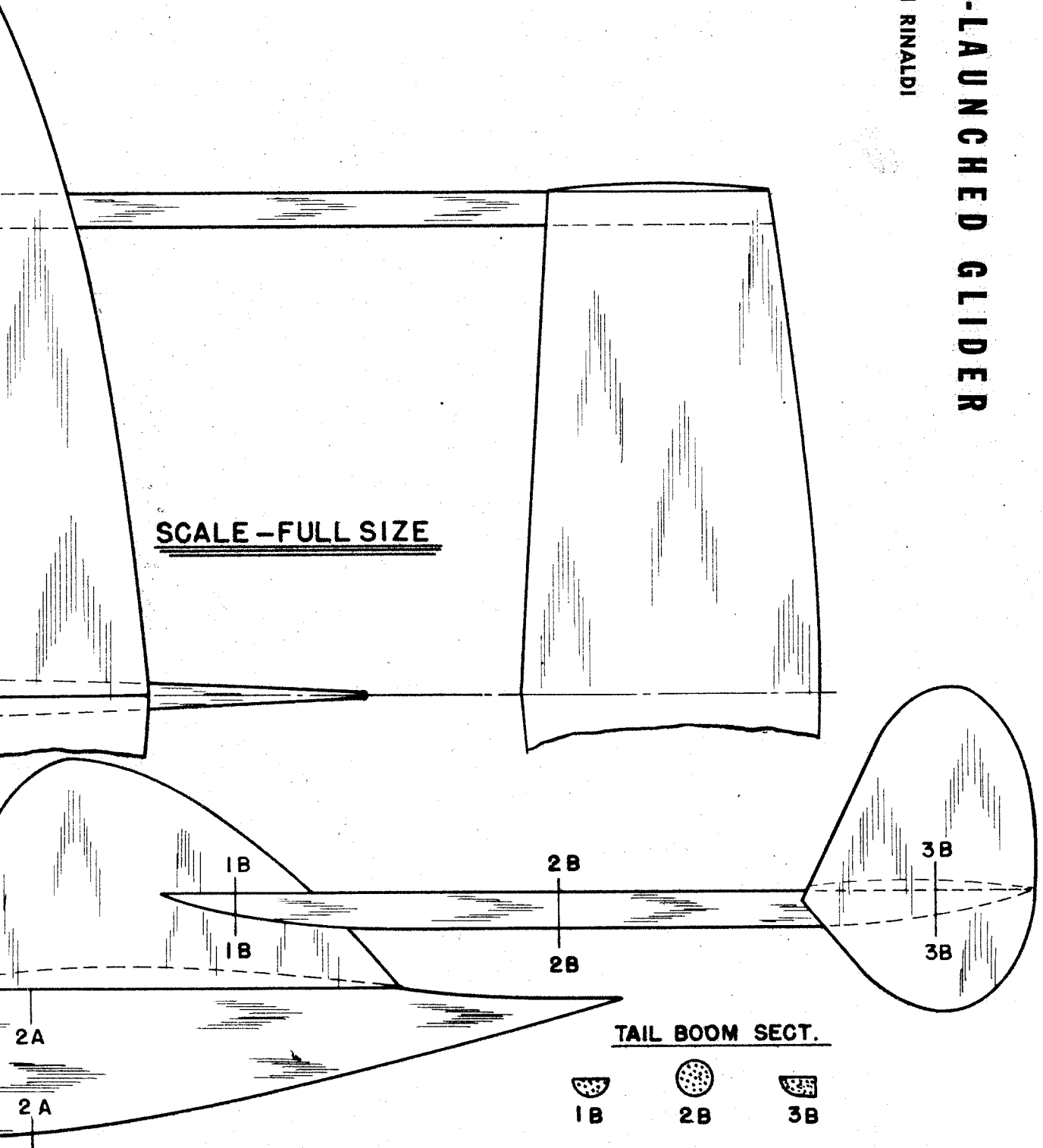
1 sheet $3/8 \times 3 \times 12$ " for wings
1 piece $3/16 \times 1 \times 7$ " for body
1 piece $1/4 \times 1/4 \times 12$ " for booms
1 sheet $1/16 \times 2 \times 12$ " for stabilizer and rudders
1 ounce glue
1 ounce dope or glider polish

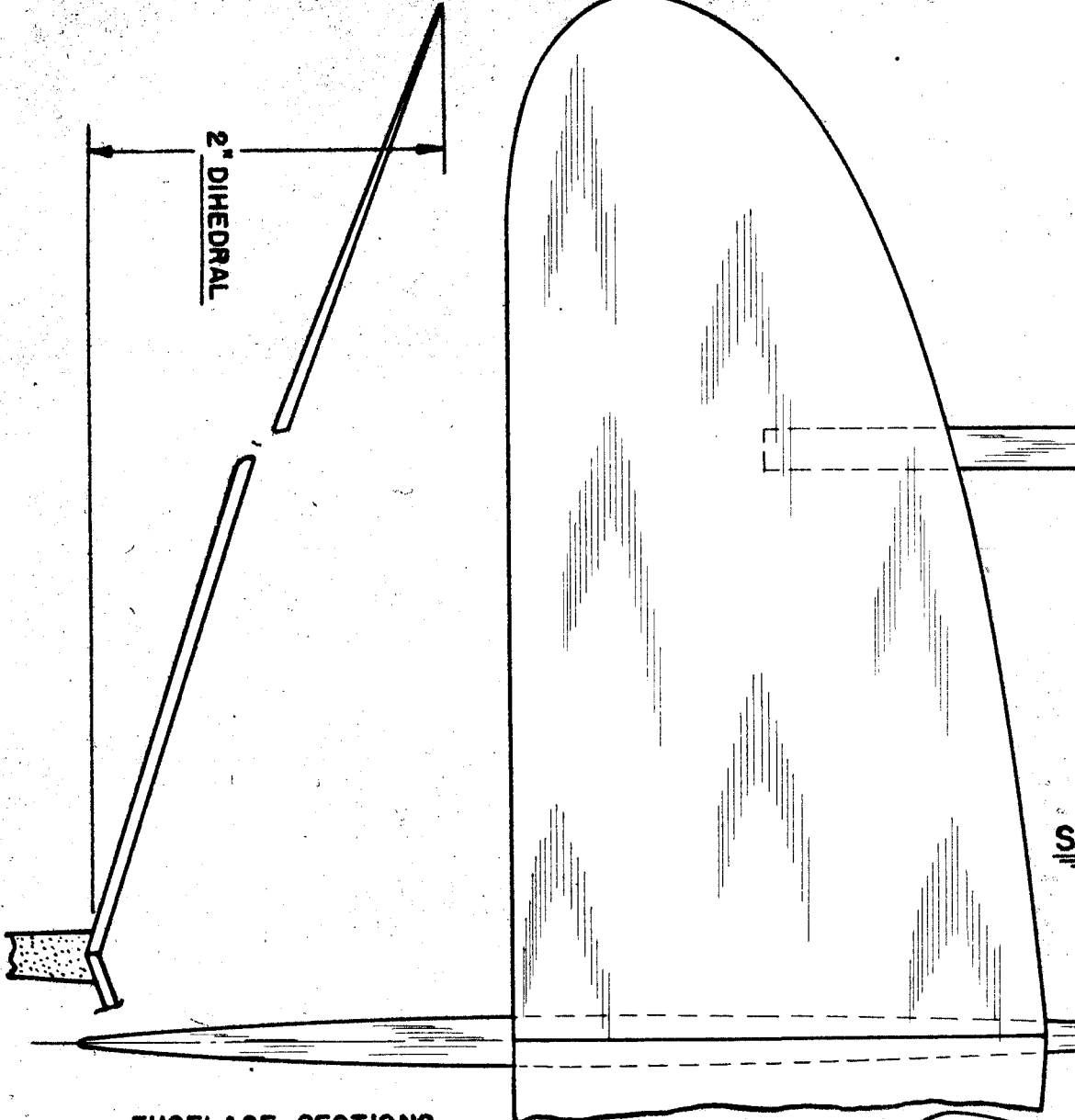
***Scanned From November, 1941
Air Trails***

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HAND-LAUNCHED GLIDER

SCALE - FULL SIZE





FUSELAGE SECTIONS

