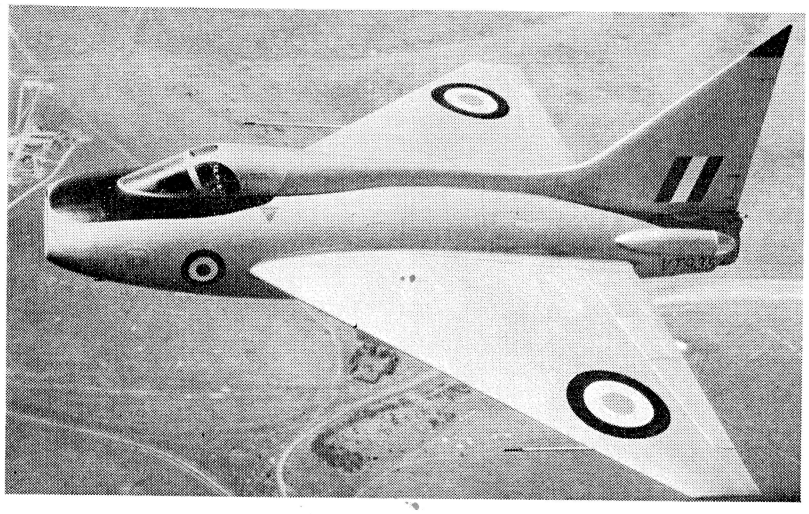

REASEARCH TRIANGLE: First air-to-air photograph of the Boulton Paul P. 111 Delta type tailless aircraft is shown here. Designed and built for the British Ministry of Supply, the P. 111 is to be used for high speed aerodynamic research work. Powered by a Rolls-Royce Nene, it is now undergoing flight tests.

**Abercorn Aero Limited,** Montreal $25,739 for aircraft parts.

**Aviation Electric Limited,** Montreal, $831,082 for aircraft parts and overhaul.

A. F. Byers Construction Co. Ltd., Montreal, $69,500 for hangar repairs.

Canadian Car & Foundry Co. Ltd., Montreal, $19,506 for aircraft parts and repair.

**Canadian Pratt & Whitney Aircraft Co. Ltd.,** Longueuil, P.Q., $3,250,000 for aircraft engine repairs.

**The de Havilland Aircraft of Canada Limited,** Toronto, $304,351 for aircraft parts and repair.

**MacDonald Bros. Aircraft Ltd.,** Winnipeg, $53,975 for aircraft parts.

**Northwest Industries Limited,** Edmonton, $140,000 for aircraft reconditioning.

**A. V. Roe Canada Limited, Toronto,** $272,435 for aircraft parts.

**Rolls-Royce Montreal Limited,** Montreal, $13,379 for aircraft engine spares.

Ross Smith Co. Ltd., Montreal, $559,760 for targets and aircraft covers.

## Anti-Icing for Jets

An electrically heated blade has been developed at Avro Canada for dealing with the problem of ice formation on the compressor blades of aircraft gas turbines. The Avro Canada blade is designed to overcome the formation of ice on the initial stages of the compressor by providing internal heating of the blade surface.

The heating element of the blade is first wound with an electrical resistance ribbon and then insulated with helical windings of glass thread. The whole assembly is impregnated with ceramic material to form a core around which the blade form is cast. This method of blade construction provides a light, compact form of blade anti-icing without reducing the blade's strength or interfering with the profile of its external contours.

## Briefly

•First flight was recently made of the **Fairey Firefly Mark 7,** an anti-submarine (3 seater) aircraft, powered by a Rolls-Royce Griffon with four-blade propeller.

•Republic Aviation Corporation is now producing the F-84G Thunderjet, the first operational jet fighter to be produced in numbers **fully equipped for mid-air refueling** by tanker planes.

•British jet engine makers got **$2,170,000 in royalties and license fees** from U.S. manufacturers who built British-designed jets during 1950.

•A contract to investigate **application of a gas turbine to a helicopter** has been awarded to Kaman Aircraft Corporation by the USN. The gas turbine to be used by Kaman is the Boeing 502-2.

•**Primary lead, refined secondary lead, slab zinc, and cadmium** are now under direct allocation by the Non-errous Metals Division of the Department of Defence Production.

•A USAF Douglas C-124 Globemaster recently **airlifted 70,000 pounds of simulated cargo** a distance of 1,000 miles, unloaded and returned to its point of departure without refueling. The C-124, designed for a gross take-off weight of 175,000 pounds, carried a gross weight of 210,000 pounds, a new mark for a production transport.

•**The world's largest blimp,** made by Goodyear, recently made its first flight. The blimp is 324 feet long, has a capacity of 875,000 cubic feet, and an air speed of 75 knots per hour.

•A new illustrated brochure entitled **"This is Bendix"** describes the research, engineering, and production facilities at Bendix Radio. Requests for the brochure should be addressed to the Public Relations Department, Bendix Radio Division, Bendix Aviation Corporation.

•The Fairey 17 has been named the **"Gannet".** This aircraft is now in quantity production for the Royal Navy.

•A design for a **turboprop medium transport** airplane submitted by the Lockheed Aircraft Corporation has been selected for further development by the USAF. Four Allison T-38 engines will be used in the first model, according to present plans.


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*E-3, ES-3, ESB-3*

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