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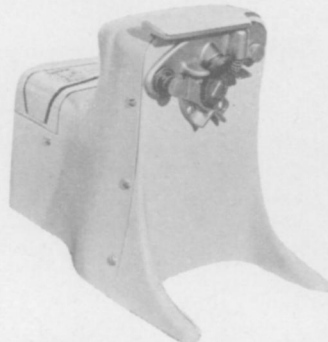
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Questions

BIOLOGY—What effect did intensity of irradiation have on abnormal development in embryo grasshoppers? p. 166.

ENTOMOLOGY—How does the viceroy butterfly's coloring protect it from bird predators? p. 169.

GENERAL SCIENCE—What is the proton-proton process, one of two that can take place at stellar temperatures, of helium building? p. 163.

OCEANOGRAPHY—What are the three problems oceanographers believe are of critical importance to man's future welfare? p. 165.

Photographs: Cover, Westinghouse Electric Corporation; p. 163, Kimble Glass Company; p. 164, U. S. Air Force; p. 170, G. F. Ekholm; p. 176, R.C.S. Tool Corp.

TECHNOLOGY

Sonic Tracer Used In Fish Research

► THE BEHAVIOR of the adult salmon is being laid bare through the use of an underwater ultrasonic detective.

By means of a sonic fish tag clipped to the fish, scientists with the U. S. Fish and Wildlife Service in Seattle, Wash., are learning about the behavior patterns of salmon at fishery entrances, exits, near spillways and powerhouse sections of dams.

The tag, a miniature ultrasonic source, operates like radar but uses bursts of high frequency sound waves instead of radio signals to probe the water. A radar-type screen picks up the fish "seen" by the instrument. It is reported to be capable of tracing the movements of ten salmon simultaneously.

"Sea Scanar" is the name of the device, designed by the Minneapolis-Honeywell Regulator Co.

Science News Letter, September 14, 1957

Do You Know?

"Radar angels" are spots on a radar screen that are caused by something unknown in the atmosphere.

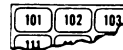
The U. S. will soon have planes in service carrying 100 to 150 passengers.

The amount of sunlight that falls on a desert square 100 miles on a side could keep all U. S. industry running continuously.

Remains of cave-dwelling reptiles that lived more than 30,000,000 years before the dinosaurs have been found in Oklahoma.

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