

# • New Machines and Gadgets •

⚙️ **ELECTRONIC** fish fence, to keep fish from escaping from hatcheries in outgoing waters, consists of one or more rows of metal electrodes through which electric impulses are sent to set up an electric field in the water. Fish entering the charged area receive an effective but harmless shock.

*Science News Letter, December 8, 1945*

⚙️ **CARPENTER'S** level is a long metal frame with parallel surfaces between which are inserted three rings, each holding two liquid vials similar to those in the ordinary level. Two of the vials are set at 45 degrees, two at plumb, and two at level.

*Science News Letter, December 8, 1945*

⚙️ **MECHANICAL** floor-scraper, to re-surface concrete floors, resembles the ordinary hardwood floor renovator but has, on its horizontally revolving cutter, tips of cemented carbide, a relatively new metal alloy harder than steel. Embedded dirt and chips are quickly removed.

*Science News Letter, December 8, 1945*

⚙️ **RUBBER** heating pad, heated electrically without the use of wire coils, contains certain chemical compounds to make it conduct electric current throughout. It consumes less electricity than other heaters constructed with coiled wire.

*Science News Letter, December 8, 1945*

⚙️ **WALNUT-SIZE** fluorescent light bulbs have long-life and cost little to operate. They were developed as warning lights for use in homes, to mark



stairways and other dark places where mishaps in the dark might cause injury. The picture shows its soft light in a home nursery.

*Science News Letter, December 8, 1945*

⚙️ **LABORATORY** cabinet, operating with dry ice, is designed to satisfy all the cold-test conditions in present-day testing techniques, from minus 90 to 220 degrees Fahrenheit. Materials inside are visible through a window of multiple panes, being lighted with tiny fluorescent lamps.

*Science News Letter, December 8, 1945*

⚙️ **LIGHT-WEIGHT** boats, with hulls

made in one piece of molded plastic plywood by the so-called Duramold process, are designed for sportsmen. The eight-foot dinghy can carry a load of 1,000 pounds.

*Science News Letter, December 8, 1945*

⚙️ **COAL** PLANER, a radically new type of coal mining machine used in German mines during the war, eliminates the costly tasks of cutting, drilling, blasting and loading. The plow-like machine shaves coal from an underground seam, working on the same principle as the carpenter's wood plane.

*Science News Letter, December 8, 1945*

If you want more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C., and ask for Gadget Bulletin 288.

## BOOKS

SCIENCE NEWS LETTER will gladly obtain any American book or magazine in print for subscribers.

Send check or money order to cover regular retail price. If price is unknown, send \$5 and change will be returned. We will pay postage in the United States.

When publications are free, send 10c for handling.

Book Department  
SCIENCE NEWS LETTER  
1719 N Street, N.W.  
Washington 6, D.C.

## Question Box

### AERONAUTICS

How have transoceanic flying failures been reduced? p. 356.

### AERONAUTICS-METEOROLOGY

How can airplanes of the future be independent of weather conditions? p. 358.

### ASTRONOMY

Where is the new comet located? p. 360.

### CHEMISTRY

How was the German method of manufacturing synthetic fuels uncovered? p. 357.

### ELECTRONICS

How was aluminum foil used to jam enemy radar devices? p. 355.

### ELECTRONICS-AERONAUTICS

How will New York's new airport be lighted? p. 366.

### ENGINEERING

How much of a problem to industry are physically impaired workers? p. 359.

### HORTICULTURE

What rose has been named as the All-America rose selection for 1946? p. 361.

### GENERAL SCIENCE

What is ORG? p. 364.

### MEDICINE

What four medical problems need reforming? p. 358.

### NUTRITION

Why should baked potatoes be served at once? p. 364.

### PHYSICS

What is the Stereophon system? p. 361.

Where published sources are used they are cited.

The imprint to the right is mailing address for your Science News Letter.

Date on lower line is expiration of your subscription.

Renew early to avoid lapse in service.

In requesting change of address please give your old address as well as the new one, at least two weeks before change is to become effective.