

# • New Machines and Gadgets •

⚙️ **LIPSTICK CASE**, with a window of transparent plastic in its side, the shape and size of a lady's lip, permits the buyer to see if the shade and color are exactly suitable.

*Science News Letter, March 3, 1945*

⚙️ **ICE AND SNOW** in freezing weather are eliminated by the use of heating coils of wrought iron installed under a concrete footpath at one factory, and under the loading strip of another. Hot water and low pressure steam are employed in these outdoor applications of "radiant heating," now used in many homes.

*Science News Letter, March 3, 1945*

⚙️ **GAS PURIFIER**, to remove oxygen from such gases as hydrogen, nitrogen, argon and neon in laboratories and industrial plants, including manufacturers of radio and radar tubes, uses palladium as a catalyst enclosed in metal cylinders through which the gas flows under pressure. High purity of gases is obtained.

*Science News Letter, March 3, 1945*

⚙️ **PLATINUM thermocouples** measure accurately temperatures of molten metal up to 3200 degrees Fahrenheit. The immersion head, shown in the picture, is composed of a platinum and platinum-rhodium thermocouple inside a fused silica tube in a block of graphite. In use



it is attached to a long tube containing connection wires.

*Science News Letter, March 3, 1945*

⚙️ **SLEEP CAP** for persons prevented from sleeping by noises is made of a light, open-work fabric fitting the head like a hood, with removable soft pads to cover the ears. The pads are designed to

distribute the pressure on the outside ear so that no discomfort is experienced.

*Science News Letter, March 3, 1945*

⚙️ **SLEDS** for ski-troopers and trappers utilize skis for runners and ski poles as load-supporting devices. Other parts of the framework are easily carried in a small pack when the sled is taken apart and the skis and poles used to fill their ordinary function.

*Science News Letter, March 3, 1945*

⚙️ **AUTOMOBILE JACK**, easy to use and economical to manufacture, has an upper end that in use is secured between the rim and brake drum of the wheel of the vehicle. The shank of the supporting stand is arched to pass inside the tire.

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 248.

*Science News Letter, March 3, 1945*

## Change-of-Address COUPON

PLEASE PRINT  
New Address \_\_\_\_\_

In requesting change of address please give New address on lines below and mail this entire coupon (including imprint of old address at right) to Science News Letter, 1719 N St., N. W., Washington 6, D. C. Do this at least two weeks before change of address is to become effective. Date on lower line of imprint at right is date your subscription expires. Please renew early to avoid missing any copies.

Include postal unit number, if any

## Question Box

### AERONAUTICS

What new dive bomber was used in blasting Japan during the recent carrier-based raids? p. 136.

What will be most effective in the improvement of aviation in the near future? p. 133.

### BOTANY-PHARMACY

Where have new sources of quinine been found? p. 135.

### CHEMISTRY

How is un-sticking wheat starch made? p. 142.

### ELECTRONICS

For what will miniature electron tubes be used after the war? p. 139.

### ENGINEERING

How is it possible to transport a hospital by air? p. 137.

Where published sources are used they are cited.

What new use is now made of earthquake waves? p. 142.

### GENERAL SCIENCE

Where will most of our future scientists come from? p. 134.

### HORTICULTURE

What is the best time of day to cut roses? p. 143.

### MEDICINE

How has the number of penicillin injections been reduced? p. 130.

What anti-germ substance has been found in the fungus of athlete's foot? p. 136.

What new treatment for flat feet has had a successful beginning? p. 130.

### RADIO

What are some of the postwar applications in store for radar? p. 131.