

• New Machines and Gadgets •

If you want more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N St., Washington 6, D. C. and ask for Gadget Bulletin 368. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **JELMETER** is a simple device for home use to indicate the amount of natural pectin in fruit juices and the amount of sugar needed for jelling. A glass tube, with a small bottom outlet, is filled with the juice, which is permitted to drip for one minute. A line on the glass at the top of the remaining juice shows the amount of sugar needed.

Science News Letter, June 28, 1947

⚙️ **FISHLINE SINKER**, made of metal, has a removable center between two end parts; the center portion, which tapers toward its ends, can be replaced by one with a greater diameter and weight. Slotted lengthwise, it can be removed and the replacement added without tools.

Science News Letter, June 28, 1947

⚙️ **BEVERAGE** bottle carrier grasps six bottles by their necks and has a centered handle for carrying. The device is made of plastic with six openings to slide over the bottle necks and two hinged clamps to hold them tightly in place.

Science News Letter, June 28, 1947

⚙️ **VENTILATED** umbrella for use on the lawn is made of overlapping strips of light aluminum that keep out the sun, but allow air-circulation. The picture shows its sturdy construction and that it



can be tilted as needed. The umbrella is made in eight sections to permit easy dismantling and compact storage.

Science News Letter, June 28, 1947

⚙️ **PAIL COVER**, to keep contents either hot or cold, is a bag of glass fiber and a plastic, and has a braided draw string

to gather in the upper edges. A removable lid of the same material fits the top of the pail. The cover is designed for a 10-quart galvanized pail.

Science News Letter, June 28, 1947

⚙️ **FIRE EXTINGUISHER**, developed for aircraft cabin use but usable elsewhere for fires in upholstery and bedding, contains an anti-freeze water solution powered by carbon dioxide and works like the well-known seltzer bottle. The gas is carried compressed in a cartridge similar to those used to inflate rubber life rafts.

Science News Letter, June 28, 1947

An Appreciated Way
of
Saying: "Thank You"
or "Congratulations"

GIFT subscriptions to
Science News Letter

are as welcome in July as in December. Just send us your instructions—who is the fortunate person and the address. A gracious card will be mailed if you wish. Send SNL for birthdays (all ages) as going away present for vacations, to alert youths ready for college, as bread-and-butter presents after week-end visits. Gifts are \$5 a year for one gift, \$8 for two yearly gifts.

GIFT

To: Science News Letter,
1719 N St., N. W.,
Washington 6, D. C.

Send SNL as gift to
name and address writ-
ten on attached slip.

\$---enclosed.

Send gift card.

GIFT

Question Box

AERONAUTICS

What is the main cause of plane crashes? p. 406.

ASTRONOMY

What constellations can you see in the summer sky? p. 407.

BIOLOGY

What metal do diatoms collect? p. 408.

CHEMISTRY

How are the chemical fragments of artificial proteins linked up? p. 403.

On what does rubber depend for its elasticity? p. 409.

Pictures: Cover, U. S. Navy; Harvard University, p. 403; Solar Aircraft Co., p. 405; Wright Aeronautical Corp., p. 406.

Where published sources are used they are cited.

What is to blame if shaving cream hardens in the tube? p. 404.

MEDICINE

How does mustard gas differ from lewisite in its effect on the skin? p. 411.

How is a new drug better for surface infections than pencillin? p. 402.

ORNITHOLOGY

Do starlings prefer waltzes or marches? p. 410.

PHYSICS

How are scientists developing plans for a rocket superior to the V-2? p. 405.