

# • New Machines and Gadgets •

For sources of more information on new things described, send a self-addressed stamped envelope to SCIENCE NEWS LETTER, 1719 N St., N.W., Washington 6, D. C., and ask for Gadget Bulletin 680. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **RUBBER DISKS** two inches in diameter are nailed to concrete form boards and produce undercut niches in the solidified concrete. When the form boards are pulled away, the disks pull out too, leaving niched, spoked holes in the concrete that become anchors for plaster. This does away with the need for wood lath, metal lath or roughening.

Science News Letter, June 27, 1953

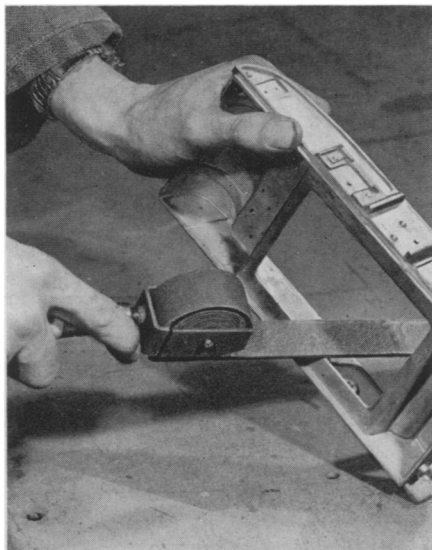
⚙️ **CAMPING MATTRESS**, made of a vinyl plastic, folds into a small convenient package. When inflated through its rust-resistant metal valve, the mattress measures 24 inches by 74 inches and fits into most sleeping bags. Its tufted design helps it keep its shape under varying body pressures, and makes sleeping on rough ground more comfortable.

Science News Letter, June 27, 1953

⚙️ **FLAME-SPRAY GUN**, now under development, shoots porcelain material through an acetylene torch and fuses it to steel, giving the steel long-lasting protection against sea water, weather, smoke and chemicals. The tool promises to be useful in treating big structures such as bridges, ships and buildings.

Science News Letter, June 27, 1953

⚙️ **ABRASIVE FILE** uses a roll of abrasive cloth instead of conventional file teeth for deburring and other filing and finishing



operations. The device features an 11-inch stroke, holds a roll of cloth more than six feet long, gives faster cutting, greater economy and more versatility through a wide choice of grits, the manufacturer says. It is shown in the photograph.

Science News Letter, June 27, 1953

⚙️ **SPORTSMAN'S SERVICEKIT** contains 37 items to meet practically any emergency the hunter or fisherman might

encounter in the field. The kit is pocket-sized, weighs 10 ounces and is relatively inexpensive.

Science News Letter, June 27, 1953

⚙️ **NEW BOW TIE** antenna for ultra-high frequency television compares favorably with UHF corner reflector type arrays meant for extreme fringe areas, the maker reports. The bowtie part of the antenna is set in a wire radar-like reflector which increases receiving power and minimizes snow and ghost-producing signals.

Science News Letter, June 27, 1953

⚙️ **RUST-CONTROLLING OIL**, formerly available only to industry, now can be bought in convenient household sizes to combat corrosion and tarnish stains on brass, copper and automobile chrome. Rust action is stopped when the oil is applied to steel sashes, screens, hardware, garden tools and metal furniture.

Science News Letter, June 27, 1953

⚙️ **DISPENSER FOR** coffee and other free-flowing products such as flour, sugar and cereals, helps keep the housewife's kitchen tidy. At a turn of the handle, the dispenser measures out one level tablespoonful of coffee. The device holds from two to three pounds of coffee in its air-tight reservoir, keeping it fresh.

Science News Letter, June 27, 1953

## Do You Know?

Some 4.3 trillion gallons of rain wet the U. S. each day.

If candles are dipped in thinned shellac, they should not droop during hot weather.

Once in a great while, a female "worker" bee will emerge from unfertilized eggs of African queen bees.

New rust-removing chemicals speed some car repair jobs as much as 20% by loosening nuts on corroded bolts.

One of every 10 fire engines made by a large manufacturer is not painted red; for instance, an individualistic customer recently ordered a "lilac number."

The super-giant star, Antares, has a diameter twice as great as that of the earth's orbit.

Synthetic fibers now are being made of limestone as well as of glass and coal.



## BIND and SAVE Your SNL Copies

With SCIENCE NEWS LETTER stamped in gold on front and spine, this excellent buff buckram binder costs \$2.50 postpaid. Snap new issues into the cover with a little unbreakable hooked wire. Remove any issue you desire and reinsert it just as easily. The binder holds 26 copies, opens freely, allows pages to lie flat, is strong enough to last for years.

### BINDER

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

Send me.....SNL binders at \$2.50 each, postpaid. My name is imprinted to the left.

SCIENCE SERVICE  
1719 N Street N. W. • Washington 6, D. C.

6-27-53