

# • New Machines and Gadgets •

⚙️ **HYDRAULIC STILTS**, strapped to a workman's legs, enable him to raise himself easily for work above his ordinary reach. The upper end is fastened to a special waist belt. The shank of the stilt contains a pump operated by a handle at the top.

Science News Letter, August 5, 1944

⚙️ **MOBILE** clothing store, in a large six-wheel truck, is serving 20 mining communities in three counties in one coal area. It carries 100 suits for men, 150 dresses and a line of suits for women, and other clothing used by miners and their families. A war expedient, it conserves workers' time.

Science News Letter, August 5, 1944

⚙️ **ATOMIZER**, for use with disinfectants and insecticides, may be attached to the ordinary electric fan. It consists of a hood to collect and concentrate the air put in motion by the blades, and direct it through a nozzle over the tube which extends downward into the liquid.

Science News Letter, August 5, 1944

⚙️ **MECHANICAL DEVICE** tests and automatically certifies the hardness of sheet metal rapidly and accurately. Sheets to be tested are fed under a vertical electrically-operated indenter point. If a sheet is up to the hardness for which the machine is set, an electric contact is closed,



operating the stamp.

Science News Letter, August 5, 1944

⚙️ **COLD CHAMBER**, or refrigerator, 80 feet long, 25 feet wide and 25 feet high, used by the Army for low-temperature tests of internal combustion engines and other equipment, is large enough for an entire fuel servicing truck. It can be operated at temperatures as

low as 70 degrees below zero Fahrenheit.

Science News Letter, August 5, 1944

⚙️ **RESILIENT HEEL** for a lady's shoe has a layer of rubber-like material under the leather lift or lower layer of the heel. The rubber-like material extends through a hole in the center of the lift to the floor, and also upward through the heel and the inner sole of the shoe where it has a flat, spreading head.

Science News Letter, August 5, 1944

⚙️ **INTERNAL** combustion engine, designed for aircraft and recently patented, looks like a six-sided steel doughnut. It contains six elbow cylinders, each with a pair of oblique-faced pistons opposed to each other at the bend where the firing chamber is located. Sprocket wheels in the middle of the six sides engage a continuous chain belt to pick up the power.

Science News Letter, August 5, 1944

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 219.

## Books

SCIENCE NEWS LETTER will obtain for you any American book or magazine in print. Send check or money order to cover regular retail price (\$5 if price is unknown, change to be remitted) and we will pay postage in the United States. When publications are free send 10c for handling.

Address Book Department

SCIENCE NEWS LETTER

1719 N St., N. W.

Washington 6, D. C.

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.

## Question Box

### AERONAUTICS

How can pilots tell where the ground is when they can't see it? p. 83.

How many more airports will we need for postwar demands? p. 82.

### CHEMISTRY

How fast does the new featherweight plastic "grow"? p. 93.

How has a steady light source for printing sound track on film been developed? p. 94.

What is the health hazard of using DDT? p. 90.

What new process has been developed for the production of chlorine dioxide? p. 82.

### ENGINEERING

How does the new "no smoke" stove operate? p. 93.

How has submarine production been speeded up? p. 94.

What is meant by "push-button" hardening? p. 87.

### MEDICINE

How can the lives of those with internal bleeding be saved? p. 83.

Where published sources are used they are cited.

In what section of the country have most polio cases been reported? p. 89.

What is Vitamin C's one and only use? p. 85.

Under what circumstances may it be dangerous to give an injured soldier a cigaret? p. 86.

### OPTICS

What part of your eye is colorblind? p. 88.

### ORDNANCE

How has the bazooka been improved? p. 82.

### PHOTOGRAPHY

How fast is the new high-speed film? p. 85.

### PSYCHIATRY

Why is it believed that gun-shy dogs are neurotic? p. 95.

### RADIO

What serious communications problem will face the world after the war? p. 84.