

• New Machines and Gadgets •

⚙️ **ELECTRONIC** glassware, such as electric toasters, waffle irons, and other cooking utensils that can be put directly on flame, will be made after the war by a new process of molding glass with high-frequency electric current. The glassware is now used in wartime radio, radar, and other electrical instruments.

Science News Letter, March 24, 1945

⚙️ **EGG-SHELL** strength is tested by placing 25 eggs, small end downward, in separate compartments in a tray with four supporting casters. The tray is then permitted to run down an inclined plane fixed on a table, hitting a block at the bottom. Shells below standard strength are cracked but not broken.

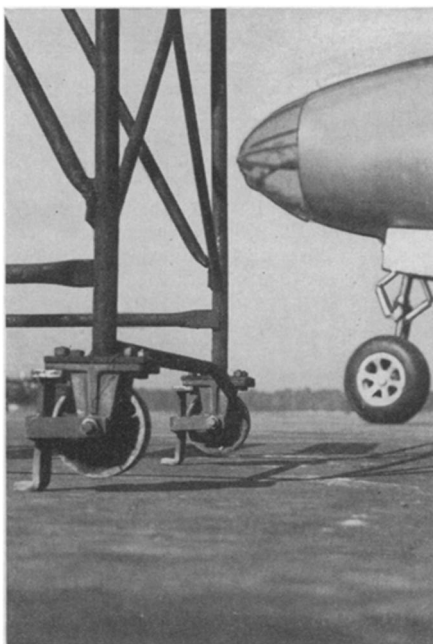
Science News Letter, March 24, 1945

⚙️ **LIQUID LEVEL** gauge for motorcycle tanks has three glass rods of different lengths extending downward into the tank with pointed ends angled at 45 degrees. Light passing down the rod passes into the gasoline when an end is immersed; otherwise it is reflected back through the rod, brightening its visible upper end.

Science News Letter, March 24, 1945

⚙️ **DE-SCALING** tubes for marine and other uses involving exposure to salt water, employ the thermostat principle. Oval in cross section, the bi-metal tubing has a strip of metal of a lower expansion coefficient silver-bronzed along its length which causes the tube to bow and straighten with changing temperatures, thus cracking off the scale.

Science News Letter, March 24, 1945



⚙️ **SAFETY LADDER** for mechanics working on planes on airfields can not "creep" when fitted with metal brackets behind the wheels on its front support, as shown in the picture. When the ladder is tipped forward to be moved to a new position the wheels come in contact with the ground.

Science News Letter, March 24, 1945

⚙️ **EYE AND NOSE** protector for boxers and football players has an open frame of a strong but resilient metal fastened to a head band of leather or to the football helmet. The frame presses against

the forehead and the bridge of the nose, and has a leather apron to cover the nose. Lenses may be attached if desired.

Science News Letter, March 24, 1945

⚙️ **ALUMINUM DRUMS**, especially developed for the Army to carry aviation fuel by air, hold 55 gallons of gasoline but weigh 31 pounds less than steel drums of the same capacity. Their use decreases the total weight of a loaded plane considerably, and assisted greatly getting fuel to American planes in China.

Science News Letter, March 24, 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 #51.

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Question Box

ASTRONOMY

How long does it take the average spicule to pass through all stages? p. 183.

BIOLOGY

What is "tropicalization"? p. 190.

CHEMISTRY

What new method is presented for making floating soap? p. 181.

What new vitamin has been discovered? p. 184.

MEDICINE

Is penicillin effective for influenza? p. 179.

For what diseases has penicillin by mouth been effective? p. 184.

Where published sources are used they are cited.

What new cause of congenital cataracts has been discovered? p. 181.

Where is the streptococcal oasis? p. 186.

METEOROLOGY

Where are the highest winds that B-29 Superfortresses encounter? p. 189.

MILITARY SCIENCE

How has the effectiveness of fighter planes been demonstrated? p. 182.

NUTRITION

Why may spring meals be low in vitamin C content? p. 191.

ZOOLOGY

Where do earthworms glow like fireflies? p. 185.

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