

•New Machines And Gadgets•

⚙️ **FUNNEL** and stand, home-made, makes easy the job of filling packages for home freezing. A rim at the top of the funnel keeps liquids from spilling; the mouth of the funnel extends into the package so that foods do not touch inside sealing edges of the liner.

Science News Letter, August 17, 1946

⚙️ **HOT WATER** heater, a stoker-fed coal-burner, works automatically for at least 30 days, and uses cheap grades of fuel. When a thermal control regulator calls for heat, driving mechanism starts and moves coal into the retort.

Science News Letter, August 17, 1946

⚙️ **SUN SURREY** is a three-wheeled beach car, which seats two riders, who operate bicycle pedals while sitting side-by-side. Behind the seat is a large locker, and an awning to keep off the sun.

Science News Letter, August 17, 1946

⚙️ **AUTOMATIC** coin-changer makes change for dimes and quarters. If a quarter is deposited in a candy bar vending machine, it sends back the merchandise and four nickels in change. It also accepts nickels for exact payment and can detect and reject slugs.

Science News Letter, August 17, 1946

⚙️ **IMPROVED** all-purpose electric mixer is of light-weight plastic and can easily be held in one hand. The stainless steel



beater and shaft will mix, whip, or beat ingredients in small jars and glasses as well as in regular mixing bowls.

Science News Letter, August 17, 1946

⚙️ **RUBBER HEEL**, with an improved shock cushioning device, entraps air between two layers of rubber. The soft upper portion contains upwardly slanted air pockets staggered with downwardly slanted pockets in the harder tread layer. Lower layer, when worn, can be replaced separately.

Science News Letter, August 17, 1946

⚙️ **POCKET-SIZE** sharpener resets dulled scissors in a few two-way strokes on each blade. The carborundum cutting stone, set in a flat nickel-plated angle guide, is moved up and down on top of the blade. Any of its four surfaces can be used.

Science News Letter, August 17, 1946

⚙️ **NEW TYPE** trussed rafter for small houses has four basic members plus two bracing ones, and saves lumber by eliminating heavy bearing partitions. It can be fabricated on the job or mass-produced in a shop.

Science News Letter, August 17, 1946

⚙️ **SPIRAL-CUT** saw blade, for wood, light metals and plastics, is a fine rod with spiral-running teeth the full length. It resembles somewhat a type of wood screw that has widely separated threads. It can cut in any direction without changing the position of the saw frame.

Science News Letter, August 17, 1946

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 324. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

Question Box

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For what purpose will sweet-potato vines be used when they can be harvested? p. 104.

ASTRONOMY

Who discovered the new comet in the southern constellation of Puppis? p. 103.

BIOPHYSICS

What does the new ultraviolet lamp do for home refrigerators? p. 110.

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How can famine be promoted as a weapon of war? p. 108.

Whose methods for manufacturing acetylene from natural gas will now be employed in this country? p. 100.

ENGINEERING

How will waves be controlled in the new harbor at Guam? p. 103.

FORESTRY

How may lumbermen be assured of sufficient lumber for the future? p. 101.

MEDICINE

Penicillin has proved successful in treat-

Where published sources are used they are cited.

ing what skin disease? p. 100.

Streptomycin is being used to treat what disease heretofore fatal? p. 104.

What new drug is being used to treat African sleeping sickness? p. 101.

What rare and fatal disease has now been treated successfully? p. 102.

PHYSIOLOGY

By what method did the Navy test the effect of high altitudes on the human body? p. 102.

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What is the location of the epicenter of the recent earthquake that shook the Dominican Republic? p. 103.

SOCIOLOGY

Does the U. S. have more people or fewer people than Italy per arable mile? p. 106.

ZOOLOGY

Do rats cause a great deal of destruction in the world, and in what ways? p. 110.

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