

• New Machines and Gadgets •

For addresses where you can get 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 538. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **DETACHABLE UPPERS** in various styles and colors are used with a single sole-heel section in a shoe just patented. Slots in the upper side of the sole, extending rearward from the cut-off toe, hold special edges of the uppers which are slid into them at the open front.

Science News Letter, September 30, 1950

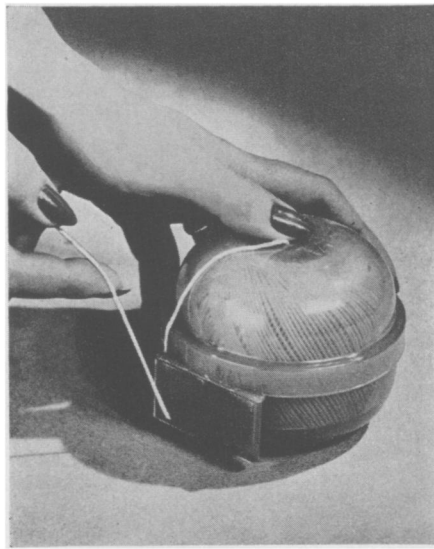
⚙️ **INDUCTION HEATER** to loosen tight-fitting fixtures on a power shaft such as pinions or gear wheels, is a small-size electrical device, rapid and effective because it distributes the heat evenly throughout the interior of the pinion. Little heat reaches the shaft to affect it.

Science News Letter, September 30, 1950

⚙️ **LIGHT CONCENTRATOR**, an improved light-weight lens and spring wire clip device, is quickly attached to an electric lamp bulb and gives a four-inch spot of illumination at a distance of 12 inches from the bulb. Its feature is the new type of lens used.

Science News Letter, September 30, 1950

⚙️ **TWINE HOLDER**, shown in the picture, is a plastic sphere molded in two halves which can be separated to insert the twine ball. Its feature is a razor blade



in a special holder on one side with a small portion of the blade exposed in a recess where the string is cut.

Science News Letter, September 30, 1950

⚙️ **COIN DETECTOR**, for use in offices receiving many letters containing nickels and dimes, is a machine which screens

opened mail to see that no coins have escaped the envelope openers. A coin-bearing envelope passing an electrostatic field in the machine is kicked aside.

Science News Letter, September 30, 1950

⚙️ **HYDRAULIC ARCH SUPPORT**, to be worn in the shoe, is an insole of two pieces of thin leather between which is a flat elastic bag containing a low-viscosity fluid. With each step, the pressure of the heel forces forward the fluid in the bag, making it take the shape of the arch and support it.

Science News Letter, September 30, 1950

⚙️ **STAMP COLLECTOR'S AID** with an attached magnifying glass can be used to measure sizes, count perforations and check watermarks. It is a compact plastic instrument with measuring scales under the lens, and a rotatable cylinder with different stamp perforation scales.

Science News Letter, September 30, 1950

⚙️ **CHILD'S DRESS** has built-in panties lined with a moisture-resistant plastic film. It is designed with snap fasteners down the front of the dress and along the sides of the panties so that it opens flat for simple dressing and undressing.

Science News Letter, September 30, 1950

Do You Know?

The average weight of *beef* animals when slaughtered is about 1,000 pounds.

Mayonnaise, for interstate shipment in the United States, must be 65% vegetable oil.

Eggs should be kept in the refrigerator; they lose freshness rapidly at room temperatures.

Bark from lumbering operations makes an excellent litter in poultry houses if reduced to a ground form.

Methylene chloride is used in some paint removers, being regarded as one of the most rapid solvents for paint, varnish and lacquer.

Sulfuric acid is often called the most important industrial acid; during 1949 over 10 million tons of it were produced in the United States.

It is estimated that over 41,000,000 household *electrical appliances*, from refrigerators to clocks to toasters and fans, will be sold in the United States during 1950.

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