

• New Machines and Gadgets •

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⚙️ **OIL TESTER**, to determine the amount of contamination in crankcase oil from the automobile engine due to carbon, metal and other particles, measures the darkness of the used oil and needs but a few drops from a dipstick to make the test. It utilizes the action of light on a photocell.

Science News Letter, September 15, 1951

⚙️ **ARCTIC UNIFORM** for military men is lighter than present types but gives more protection from the cold and more freedom of movement. It is based on the "layer principle" with insulating layers that button into outer clothing layers. Good body ventilation is a feature.

Science News Letter, September 15, 1951

⚙️ **MEMO BOX**, to hold a writing pad on the office desk, has a three-minute "hour-glass" on its side to time toll-telephone calls. Made of magnetic metal, it holds handy at all times a metal pencil that comes with it. The box contains a calendar and a secret compartment for stamps and keys.

Science News Letter, September 15, 1951

⚙️ **ALL-RUBBER PUMPS**, centrifugal units for handling both corrosive and non-corrosive liquids, are small devices for laboratory use and are powered by tiny electric motors. The stainless steel shaft within them is the only metal that makes contact with the liquid being pumped.

Science News Letter, September 15, 1951

Do You Know?

The new antibiotic drugs are used to treat *dental abscesses*.

In an early process of making coke practiced over 300 years ago, a fire was started inside a pile of *coal* and the pile covered with earth.

Frozen concentrated *apple juice* is becoming an American favorite.

A *television* station in Mexico City was the first to go on the air in Latin America.

Watermelon syrup is a by-product of the watermelon seed industry; five gallons of watermelon juice make one quart of syrup.

Without columbium, chromium, cobalt and tungsten the special *steels* used in jet planes, rockets, tanks and guns can not be made.



⚙️ **HOME-MADE HATS**, such as the one illustrated here, stoles and other articles of feminine wear are quickly made with a large crochet hook and yarns developed for this special purpose which come in a variety of colors. Instruction book, accompanying

the yarn, gives full information on how to make various articles.

Science News Letter, September 15, 1951

⚙️ **HARDENING COMPOUND** can be applied to ordinary small tools for emergency surface hardening and quickly fused to the metal with a welding torch. The preparation contains small hardening particles which, when heated, fuse with the parent metal to give a combination of hardening and hard overlay.

Science News Letter, September 15, 1951

⚙️ **HUMIDITY INDICATOR**, a type with dry- and wet-bulb thermometers, has a built-in slide calculator that is easily set to show the relative humidity at a glance. In use, the wick on the wet bulb is moistened and the pair of thermometers, in their compact case, swung in the air.

Science News Letter, September 15, 1951

⚙️ **MANICURE stand**, a type for use at home on which a patent has just been issued, has a base with a groove to hold a finger while nail polish is being applied, and an adjustable magnifying glass through which the finger can be viewed. Magnifying glass can be moved up and down.

Science News Letter, September 15, 1951

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