

# • New Machines and Gadgets •

⚙️ **RAINCOATS** of the future may be carried in a woman's pocketbook. They weigh six or eight ounces and fold into packages little larger than cigarette cases. Fabricated of vinyl plastic, they retain full flexibility in cold weather.

Science News Letter, December 1, 1945

⚙️ **OPTICAL INSTRUMENT**, known as a multi-scale monocular, permits the user to measure and compare small objects with the aid of a highly corrected six-power optical system and six selective scales, all of which are incorporated in the instrument.

Science News Letter, December 1, 1945

⚙️ **ALUMINUM** containers with a capacity of half a railroad box car are designed to be loaded in factories and transported by truck-trailer to the railroad track. They are shifted on or off a flat car with the aid of built-in hydraulic jacks and ball-bearing rollers.

Science News Letter, December 1, 1945

⚙️ **PERMANENT MAGNETS** are designed to extract screws, nuts, bolts and other magnetic materials from inaccessible locations. The magnets are attached to flexible or rigid handles by standard screw connections.

Science News Letter, December 1, 1945

⚙️ **POCKET RADIO**, with reception comparable to that of the usual five-tube receiver, weighs 10 ounces and is 3



inches wide, 6 $\frac{1}{4}$  inches high and  $\frac{3}{4}$  inches thick. It has five sub-miniature tubes, each with a cross-section about the same as that of an oval cigarette. The picture shows the radio being inserted in a special pocket in a knapsack.

Science News Letter, December 1, 1945

⚙️ **RECORDING - REPRODUCING** machine for office use in dictating letters or recording conferences, records the voice on a belt 3 $\frac{1}{2}$  inches wide. The belt, of an unbreakable, flexible plastic, can be flattened to fit into a small mailing

envelope. Double recording heads permit continuous recording.

Science News Letter, December 1, 1945

⚙️ **GARDEN HOSE** coupling consists of two metal ends, one of which fits into the other and is locked by a sliding knurled ring. When the ring is pulled forward, it compresses a coil spring, forcing holding lugs down behind a locking ring on the inserted part.

Science News Letter, December 1, 1945

⚙️ **DRY-ICE** liquefier transforms solid carbon dioxide into liquid form for bottles of carbonated beverages and other uses of carbon dioxide. It is an all-welded steel tank large enough to hold half a ton of dry ice. In use, water runs down the outside from a perforated ring near the top.

Science News Letter, December 1, 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 287.

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## Question Box

### CHEMISTRY-BOTANY

At what time of year does cabbage have the greatest yield of vitamins? p. 345.

### CHEMISTRY

To whom was the 1945 Chemistry Nobel Prize awarded? p. 341.

### ELECTRONICS

What added protection do life-boats now have? p. 350.

What method makes bread mold-proof? p. 345.

### GENERAL SCIENCE

What five problems have been presented to the science division of UNESCO by the London conference? p. 344.

### GENETICS

In what animal cell has chromosome behavior been clearly seen? p. 344.

### GEOLOGY

What does bacteria have to do with the formation of petroleum? p. 342.

### MEDICINE

How successful were the experiments on controlling cholera in India? p. 339.

### ORDNANCE

What is the "hedgehog"? p. 344.

### PHYSICS

Who has been awarded the Comstock prize? p. 351.

### PHYSICS-CHEMISTRY

What atom bomb scientists have received Nobel awards? p. 341.

### PSYCHIATRY

What is "social psychiatry"? p. 347.

### TECHNOLOGY

What makes it possible for pilots to communicate with each other at the altitude of 40,000 feet? p. 345.

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