

• New Machines and Gadgets •

For sources of more information on new things described, send a self-addressed stamped envelope to SCIENCE NEWS LETTER, 1719 N St., N.W., Washington 6, D. C., and ask for Gadget Bulletin 713. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **TV "TROUBLE book"** pictures 40 different television sets that are working improperly. By telephoning the serviceman and advising him which book picture resembles the TV picture, the owner helps the serviceman find the exact trouble. The serviceman has a technical version of the same book and can come prepared to fix the set; this helps to cut service charges.

Science News Letter, February 13, 1954

⚙️ **PLASTIC EXTINGUISHER** squirts a fire-fighting chemical from its clear, leak-proof bag. Having no metal parts to corrode, the bag is set for action when a ring is pulled. When squeezed, a spray nozzle squirts a stream of carbon tetrachloride 18 feet.

Science News Letter, February 13, 1954

⚙️ **TINY TORQUE wrench**, like the big tools used industrially to tighten bolts to the exact degree, measures up to 80 inch-grams. Other models measure up to 8 and 16 inch-ounces. These torque wrenches are designed for use in the electronics, instrument and precision equipment field.

Science News Letter, February 13, 1954

⚙️ **ELECTROSTATIC AIR cleaner** has been modified for suspension from the ceil-



ing, as shown in the photograph. Attached to the main return air duct of a forced-air heating system, the device screens 90% of all airborne dust, pollen and tobacco smoke particles from an average five- to seven-room house. It has no moving parts.

Science News Letter, February 13, 1954

⚙️ **THERMAL INSULATION**, newly-developed, may permit construction of refrigerators that can be hung on the kitchen wall or suspended from the ceiling. Made in the form of vacuum-panels, the insulation may double the capacity of refrigerators without changing their physical dimensions. An experimental model already has been made.

Science News Letter, February 13, 1954

⚙️ **NEW PORTABLE radio** of a well-known make has been improved in its reception on all seven wave bands. The company reports that in a week of casual tuning, the radio picked up 43 foreign nations and almost every clear-channel broadcast station in the U. S.

Science News Letter, February 13, 1954

⚙️ **MULTI-TOOL WORKBENCH** for the home hobbyist is especially designed so that various units can be detached to serve as independent portable power tools. The all-steel bench also can convert many portable tools into stationary machines. Various attachments for the tools further extend the utility of each one.

Science News Letter, February 13, 1954

⚙️ **ELECTRONIC FISH-FINDER** scans beneath a trawler with its ultrasonic head and flashes on a television-like screen anything it detects, such as the ocean bottom and submerged objects. When fish are spotted the set can be made to "magnify" 25 times, permitting in some cases actual identification of individual fish.

Science News Letter, February 13, 1954

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Do You Know?

Aureomycin and vitamin B-12 added to rabbit diets cuts losses of young rabbits from enteritis by as much as 75%.

The first significant discovery of oil in Australia was made at Exmouth Gulf in Western Australia.

Some leadership characteristics such as adventurousness, liveliness and self-confidence are displayed more prominently among juvenile delinquents than non-delinquents.

Cows with long heads generally produce more milk than those with shorter heads.

A 60-mile underwater electric power cable, longest in the world, carries current from the mainland of Sweden to the Isle of Gotland.