

# • New Machines and Gadgets •

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⚙️ **RADIATION** monitor, for use where radioactive substances are employed, is a one-pound device, without tubes or battery, that gives continuous direct radiation readings on a dial. It is equipped with a self-contained power source and a pointer to indicate strength of radiation.

Science News Letter, February 3, 1951

⚙️ **INFRA-RED** generator, for use in heating and drying, gives two temperature conditions at the same time, making it valuable in drying enamels and lacquers. This recently patented device is a glass tube within which is a coil of filament wire coated with an insulating cement.

Science News Letter, February 3, 1951

⚙️ **HUMIDITY** controller is for use with standard home or office electrical humidifiers or dehumidifiers and requires no special installation. It is merely plugged into the electric outlet, and the humidifier plugged into it. It operates automatically when its dial is set at the relative humidity desired.

Science News Letter, February 3, 1951

⚙️ **SAFETY** helmet for the youngster, shown in the picture, is made of a shatter-proof acetate plastic with a cloth interlin-



ing, felt chin and ear pads, and a foam-rubber headband. The helmet is available in either red or white.

Science News Letter, February 3, 1951

⚙️ **LOCKING HANDLE** for casement windows is designed for placement in a position where it does not injure venetian blinds during raising or lowering while the handle is in open position. It is an orna-

mental device for which a maximum clearance of only 1.75 inches is required in wide open position.

Science News Letter, February 3, 1951

⚙️ **TUBE TESTER**, for television cathode ray tubes, will test all TV picture tubes without removing them from the set or from the tube carton. It is a complete, self-contained instrument designed to test both electrostatic and electromagnetic tubes, including special tests for all tube elements.

Science News Letter, February 3, 1951

⚙️ **PORTABLE HEATER**, a gasoline-burner developed for military uses but suitable for other purposes, is small in size, consumes one-half gallon of fuel per hour, but delivers enough heat for a five-room house. Its electric fan can provide ventilation in warm weather.

Science News Letter, February 3, 1951

⚙️ **SIMPLIFIED** periodic table for chemistry students is an aid and a reference in the study of the 98 elements and of electron configuration. The main chart contains 40 elements, the others being on two attached turn-over flaps. Primary, secondary and other chemical relationships are shown in black; electron configurations in red.

Science News Letter, February 3, 1951

## Do You Know?

The metal *gallium* is a liquid at normal temperatures.

To produce one pound of *aluminum*, four to six pounds of bauxite ore are required.

Synthetic *fibers* developed during the past few years threaten to push wool into the background.

*Ramie*, a widely used vegetable fiber, is stronger than silk, cotton or linen, and gets stronger still when wet.

*Carbon black*, widely used in automobile tires and other rubber goods, is made at a higher temperature than lamp black, and has a higher surface area because of its finer particle size.

A section of heavy *chain* fished recently from the bottom of Lake Erie is thought to be an anchor chain of an American vessel sunk by the British 140 years ago; no chain of the type has been made in the past 100 years.

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