

• New Machines and Gadgets •

For sources of more information on new things described, send a self-addressed stamped envelope to SCIENCE SERVICE, 1719 N St., N.W., Washington 6, D. C., and ask for Gadget Bulletin 832. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **TRAVEL TOOTHBRUSH** holds a four-week supply of a liquid dentifrice in its plastic handle. A twist of the handle and a shake coats the toothbrush with the dentifrice. A German invention, the handle can be discarded when empty and replaced by a refill.

Science News Letter, May 26, 1956

⚙️ **SELF-SQUEEZING MOP** has a push-pull handle made of butyrate plastic that causes the squeezer to fold the sponge and press out water when worked. The mop is made of metal and plastic. The sponges are replaceable in a choice of pastel colors.

Science News Letter, May 26, 1956

⚙️ **TIME CONVERTER** tells at a glance what time it is anywhere in the world. A color key establishes today, tomorrow and yesterday. By following the instructions, the hour anywhere can be computed. The conversion table is designed for travelers, communications personnel and others.

Science News Letter, May 26, 1956

⚙️ **TINY ELECTRONIC FLASH** is small enough to be put into a pocket or purse, as shown in the photograph. It weighs 24 ounces and is battery powered. The flash can be adapted to be plugged into a 110-20



AC volt outlet. It has no switches or wires to connect and, with an accessory, can be fitted to most cameras.

Science News Letter, May 26, 1956

⚙️ **AUTOMATIC MOVIE CAMERA** sets the lens for you at the proper exposure by

means of a battery-operated motor, controlled by a photo-electric cell. The fully automatic camera permits amateurs and professionals alike to follow a subject from light to shadow without interruption. The camera can also be used manually and the cell deactivated.

Science News Letter, May 26, 1956

⚙️ **DEMINEALIZED WATER** is produced by an ion-exchange unit capable of yielding up to 100 gallons of mineral-free water before the material is exhausted. Attached to any water outlet, no heat or power is necessary for its operation. Replacement cartridges for the small demineralizer are available.

Science News Letter, May 26, 1956

⚙️ **LIGHTWEIGHT HOSE** is made of a seamless pliable rubber, coated with rayon tire cord, and finished off in neoprene plastic. The new one-half inch garden hose is highly resistant to heat and cold alike and is pressure-proof. It weighs only seven pounds and seven ounces per 50-foot length.

Science News Letter, May 26, 1956

⚙️ **GAS-OPERATED SHOTGUN** is a 12-gauge, three-shot autoloader that weighs only seven pounds. Described as the fastest loading shotgun ever made, the non-recoiling barrel can be interchanged to allow a sportsman to shift from one type of hunting to another. The weapon can also be set for low or high base loads.

Science News Letter, May 26, 1956

Scientific Instruments You Can Make

How teen-age scientists have designed and built various scientific instruments. References guide the reader to research in the fields open by use of these instruments.

Astronomical Instruments

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Do You Know?

The female *octopus* produces about 280,000 eggs over a period of about two weeks; then it takes from four to six weeks for them to hatch.

The first dairy in the world to manufacture skimmed milk powder from *buffalo milk* on a commercial scale was opened recently in Anand, India.

Limestone is the most widely used of all domestic *rocks*.

One of the most rapidly expanding industries in Scotland is the production of alginate from brown *seaweed*; alginate is valuable in processing rubber, textiles, dental products and a number of foods.

The modern blue *whale* is equal in weight to three dinosaurs, 17 elephants or 133 oxen.