

• New Machines and Gadgets •

For addresses where you can get more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N ST., Washington 6, D. C. and ask for Gadget Bulletin 612. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

☛ **MUFF-TYPE CARRY-ALL**, to enable a woman to keep her handbag and small packages dry in a rain, is a plastic device, similar in shape and size to the old-fashioned muff. It contains space for the two hands and for the articles, and folds into a small compact package.

Science News Letter, March 8, 1952

☛ **BULLET-STOPPING plastic** is made of a combination of alkyd resin and Fiberglas reinforcement. It has good electrical properties, dimensional stability, resistance to heat, and a high impact strength such that it will stop a .45 cal. automatic bullet.

Science News Letter, March 8, 1952

☛ **AIR FILTER** for forced-draft hot-air furnaces and air-conditioning systems is a self-charging, electrostatic unit. It is made of a washable plastic and is capable of catching pollen and the most minute solids in cigarette smoke.

Science News Letter, March 8, 1952

☛ **NEW ELECTRON microscope** has an electrostatic lens system which allows high image quality with direct magnifications up to 20,000 diameters. Its operation is announced as so simplified as to be comparable with an ordinary light microscope. It is adaptable for electron diffraction and stereo electron micrographs.

Science News Letter, March 8, 1952

Do You Know?

A professional mover distributes effort over as much of his body as possible instead of overworking one set of muscles.

A full-size delta-shaped *aircraft* wing has been made of highly-polished molded plastic in Britain.

Lack of oxygen, caused by ice cover and water plant metabolism, is the principal cause of excessive deaths in fishes during winter.

More than 300 years of cultivation of almost every arable square foot of Barbados has virtually eliminated native *weeds* and weedseed on the island.

The most logical places to find *minerals* are where two different types of rock formations come together.

Airfield *runways* and taxi strips "softened" by jet fuel spillage can now be protected with a coating of new plasticized synthetic rubber and tar blend.



☛ **GARDEN HOSE connector**, for attaching the hose to a faucet, is made of cellulose acetate butyrate and is shown in the photograph. One part, with inside threads, screws directly on the faucet, and the other part, with outside threads, screws into the

receiving end of the hose. A quick half-turn attaches the hose to the faucet and releases it.

Science News Letter, March 8, 1952

☛ **ELECTRIC GLUING unit**, just perfected, allows plywood to be "welded" together within a matter of minutes. The portable, high-frequency device permits the use of one-quarter-inch plywood paneling to achieve a result comparing favorably with three-quarter-inch plywood.

Science News Letter, March 8, 1952

☛ **WATER-RESISTANT PAPER plates** that do not get soggy and limp are made by impregnating sulfite paper with a melamine resin blend and molding the paper into the desired shape by compression. Disposable after use, the plates are greaseproof and heat resistant. They are made in dinner, compartmented and pie sizes.

Science News Letter, March 8, 1952

☛ **INFLATABLE MATTRESS** which protects the body from cold, damp ground under extreme weather conditions, is designed for soldiers and others who sleep out-of-doors. When not in use, the mattress can be folded into a square of about 15 inches. It weighs about three pounds.

Science News Letter, March 8, 1952

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