

# • 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 554. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **DISSECTING NEEDLE**, electrically-driven, for operating on the nervous system of a chick embryo, will be used to separate the hind-brain of the embryo and prevent the development of nerve cells in the heart walls. Purpose is to determine whether certain drugs affect the nervous system or the muscle tissues of the heart.

Science News Letter, January 27, 1951

⚙️ **DUST-PROOF SOCKETS** for automobile tail lights, also moisture-proof, are coated after parts are assembled by dipping in a vinyl plasticol. The protection is applied economically by this process. After dipping, the coating is cured in a fusion oven heated by infrared lamps.

Science News Letter, January 27, 1951

⚙️ **SUN LAMP** that resembles a fluorescent tube, particularly for use in hen houses to increase egg production in the short-day season, gives ultraviolet radiation claimed to speed the growth of broilers. It is an economical light, using less electricity than a 25-watt bulb.

Science News Letter, January 27, 1951

## Do You Know?

Robins like cherries and take a heavy toll if trees are not protected.

America imports two-thirds the tannin used in making domestic leather.

Norway hopes to find a market for its prefabricated houses in India and Australia.

A variety of tree types and a range of tree ages is important for wildlife.

Concentrated milk is now being produced which has the taste and nutritive value of regular milk.

Fuel gas is being produced experimentally from trimmings, cores and other fruit wastes in pear-canning factories.

Straw from wheat, rice, oats, barley, rye and flax can all be used in paper-making to conserve wood pulp.

Soybeans grown in southern American states contain more oil than those grown in the north.

In Oregon, where much milk is raised and filbert nuts are a surplus crop, a cheese is proposed which would combine the two in making a product of excellent flavor.



⚙️ **METAL GUARDS** for street lamps, shown in picture, are made of sheet metal with diamond-shaped openings cut out to give a network effect. The guards, to prevent breakage by vandals, are made from what is called expanded metal, a strong

Arabia produces only 20% of its own food.

Brant are a small type of goose about the size of a mallard duck.

The web of the spider is stronger than steel for its weight, scientists say.

Synthetic spearmint oil for flavoring can be made from orange and grapefruit peels.

Only about one-half the United States has been topographically mapped.

The young of the condor takes so long in developing that it is fed and cared for by its parents until a year old.

Waste in lumber manufacturing is very high; the most successful use of wood waste at the present time is in the making of composition wallboard.

Some freight cars of the railroad box-car type are being made of plywood, electronically bonded with special plastic, instead of the ordinarily used steel.

material made by piercing and stretching solid sheet steel.

Science News Letter, January 27, 1951

⚙️ **DIAL-FACE THERMOMETER**, for outside a window, is easily read because light through the transparent back illuminates the red pointer and figures on the glass front. The device has two small pointers to indicate hot and cold extremes during any desired period.

Science News Letter, January 27, 1951

⚙️ **STAINLESS STEEL** beakers for laboratory use, highly polished to a mirror finish, have permanently attached bakelite handles for easy handling without the need of beaker tongs. They have heavy beaded rims and dripless pour-out lips.

Science News Letter, January 27, 1951

⚙️ **PRESSURE COOKING** is accomplished without watching and worry by a device that includes three appliances in one. They are a heat-controlled electric stove, a full 60-minute electric timer and a four-quart pressure sauce pan. The assembly is completely automatic and cooks at either 10 or 15 pounds pressure.

Science News Letter, January 27, 1951

⚙️ **SAFETY RAZOR** with a magnetic guard, for which the government issued a recent patent, is claimed to give easy shaves and extra shaves per blade. A permanent magnetic rod is fixed on the blade holder close to the cutting edge and exerts an inward pull on the feathered portions of the blade.

Science News Letter, January 27, 1951

## ● RADIO

Saturday, February 3, 1951, 3:15-3:30 p.m. EST. "Adventures in Science," with Watson Davis, director of Science Service, over Columbia Broadcasting System.

Dr. Harold W. Oppice, president of the American Dental Association and Professor of Crown and Bridge, Loyola University, will discuss "Better Dental Health for Our Children."

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