

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

⚙️ **CAULKING COMPOUND** of synthetic rubber is a paste that cures without shrinking to permanent, flexible rubber. Applicable at any desired film thickness in one coat with a knife, trowel or caulking gun, the compound is good in temperatures from 65 degrees below zero Fahrenheit to 250 degrees Fahrenheit.

Science News Letter, February 11, 1956

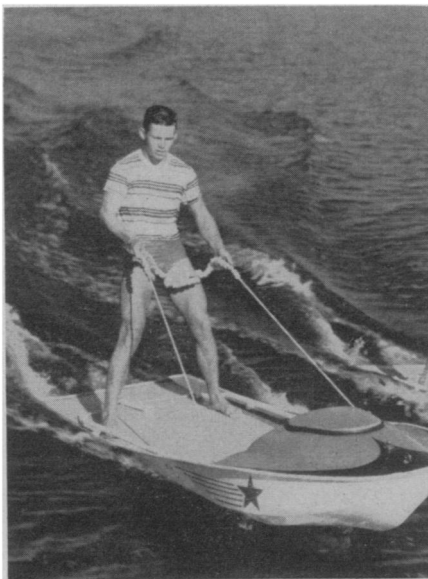
⚙️ **REVERSIBLE TEMPLATES** as a set of five are for drawing general layouts or details of any valving and piping system. Made of rigid, non-glare vinyl, there are four 5 $\frac{3}{8}$ " by 9 $\frac{7}{8}$ " pipe, pipe fitting and valve indication templates and one dimensioning template.

Science News Letter, February 11, 1956

⚙️ **LABORATORY CRUCIBLE** has a melting point of 3,900 degrees Fahrenheit. Designed for work with molten metals such as magnesium, steel, tin and zinc, as well as with nitric and hydrochloric acids, the crucible is made from zirconium boride 101. It is available in 50- and 100-milliliter size.

Science News Letter, February 11, 1956

⚙️ **PLASTIC "AQUAPLANE"** is a self-propelled, unsinkable boat made of fiber



glass reinforced plastic, shown in the photograph. Powered by a seven, ten, 12, 15 or 20 hp outboard motor, the 155-pound sport craft can travel at better than 30 knots. The bow-mounted engine automatically shuts off if the rider falls.

Science News Letter, February 11, 1956

⚙️ **WEATHER FORECASTING GAME** for the junior meteorologist includes a weather book, room thermometer, slate map of the United States and the necessary dials for indicating wind direction, velocity and other factors.

Science News Letter, February 11, 1956

⚙️ **FISHERMAN'S HITCHES** offer a quick way to switch lures. Made of stainless steel, the hitches are in four sizes and have been tested for 25 pounds fly, 40 pounds spin, 135 pounds casting and 230 pounds heavy duty.

Science News Letter, February 11, 1956

⚙️ **SAFETY PIN** for baby's diapers consists of two plastic discs with a metal press-lock fastening device. It snaps together and pulls apart, and is available in blue or pink. The new pin is said to eliminate the possibility of its being swallowed by a baby.

Science News Letter, February 11, 1956

⚙️ **METAL POLISH** for all metals has been imported from Germany. Packaged in a tube, it is described as having an anti-tarnish agent capable of maintaining a mirror-like finish for periods of up to six months.

Science News Letter, February 11, 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 Pacific states experienced the highest rate of *population* increase in the U. S. during 1955, about twice the rate for the country as a whole.

Of the 1,600 miles of *roads* in Honduras, only 20 miles are paved.

Salt was probably the first chemical used in *curing* meat.

Some 10,000,000 Americans suffer from *brain* damage of various kinds.

Aluminum is the most plentiful non-ferrous *metal* in the world.

A new-born *seal* is about 36 inches long and weighs from 20 to 38 pounds.

Mountain climbing proves the human body can adapt to a deficiency of *oxygen* once considered fatal.

It is estimated that by the year 2,000 about ten times as much *energy* will be used throughout the world as was used in 1947.