·New Machines and Gadgets ·

MINIATURE kitchens, dress suitcase size, will be used by salesmen visiting homes for possible installations. Cabinets, closets, stove and refrigerator are made to scale of stiff cardboard, and the various items can be shifted to fit any ordinary home kitchen and show the housewife how her workshop can best be arranged.

Science News Letter, August 11, 1945

SHOES with slightly hollowed heels will give proper support to the arch of the foot, it is claimed, without the need of special inserted arch supports. The rest of the shoe is shaped like the ordinary footwear, but under the heel of the foot a concave recess is formed into which the wearer's heel fits.

Science News Letter, August 11, 1945

ARC-OXYGEN electrode, a war development for under-water cutting of metals in sunken ships, combines the tremendous heat of the electric arc with the corrosive cutting effect of pure oxygen. It looks like an ordinary pea-shooter, and can cut a quarter-inch steel plate 40 feet under water at a rate of a foot per second.

Science News Letter, August 11, 1945

PHOSPHORESCENT plastice tape, cream-colored in daylight and bluegreen in darkness, is made in three layers—the phosphorescent pigment is between a special white synthetic adhesive on its back and a clear protective film on its face. It will stick and hold to almost any material under various weather conditions.

Science News Letter, August 11, 1945



BRAZING by radiation is accomplished in the so-called hydrogen bottle shown in the picture. It is used in brazing copper parts by radiation from an incandescent filament which has a temperature of about 2,000 degrees Centigrade. The copper parts are heated to around 900 degrees.

Science News Letter, August 11, 1945

STRETCHING MACHINE, to shape aluminum extrusions to form a variety of bomber parts, consists of a table-height base upon which are mounted two hydraulic jaws, and a contour form to match the shape desired. The jaws pull the aluminum against the form with pressures up to 1,300 pounds, forcing it into shape.

Science News Letter, August 11, 1945

HYDRAULIC transmission system, used on Navy PT Boats, sends "ahead" "neutral" or "back" signals to engine room from the bridge. The signals are transmitted instantaneously, without use of electricity or other outside source of power, by this hydraulic device which automatically compensates for expansion due to temperature changes.

Science News Letter, August 11, 1945

If you want more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C., and ask for Gadget Bulletin 271.

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