

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

⚙️ **BABY CUP**, designed to prevent spilling and upsetting, has a weighted bottom which automatically uprights the plastic cup if it is pushed over. It has a detachable top to control the flow of contents and a full-length handle to provide a firm grip for a small hand.

⚙️ **ILLUMINOMETER**, a weather instrument to record the intensity of daylight, has a photocell unit and a recorder that can be placed several hundred feet apart without loss of sensitivity. The cell assembly is designed for mounting on top of a mast; the housing casts no shadows on the receiving surface.

⚙️ **VINSOL RESIN** solution, for use in the concrete mixer to entrain air in the product, results in a concrete filled with minute air bubbles that is highly resistant to weathering, abrasion and frost. Concrete roads with the entrained air bubbles resist the scaling caused by de-icing salts.

⚙️ **NECK PILLOW**, shaped like a horse-shoe, is an inflatable device to fit snugly around the neck as shown in the photograph. Designed to provide sleeping comfort for people who like to take a nap



sitting up, it is of plastic and can be carried deflated in the hand bag.

⚙️ **RECTIFIER TUBE**, designed to meet military requirements under extreme tem-

perature changes, is filled with xenon gas that gives it high efficiency at temperatures between approximately 100 degrees below zero Fahrenheit and 200 degrees above.

⚙️ **SHOE-POLISHER**, with a small brush to spread the paste at one end and a woolly face to give the shine, has a hollow back within which a tube of paste is placed. A turn of a knob at one end forces a little paste out of the tube and on to the brush.

⚙️ **DUPLICATING MACHINE** makes exact copies of letters and other papers by a dry-process method utilizing infra-red light. An infra-red light source sends rays through a special heat-sensitive sheet to the black-and-white original copy. The black type face converts the rays into heat which acts upon the heat-sensitive sheet.

⚙️ **ALUMINUM ALLOY**, developed by the Air Force to withstand elevated temperatures, can be used in aircraft parts operating in temperatures up to 600 degrees Fahrenheit, twice as high as the present limit. It contains copper, nickel, magnesium, manganese, chromium, vanadium and titanium.

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