

• New Machines and Gadgets •

⚙️ **FLAK SHAWLS**, blankets, and curtains are being perfected by the Army Airforce Materiel Command to protect fighter and bomber crews. The shawl, a sort of horse collar with special tail pieces, interferes less with body movements than bulky armor.

Science News Letter, January 27, 1945

⚙️ **TRI-ALLOY BEARINGS** for automobile engines and other parts, developed to replace prewar cadmium bearings, are made of 35% to 40% lead, 4.5% to 5% silver, 0.5% iron, and the balance copper. Tests indicate the so-called tri-alloy bearings to be highly satisfactory.

Science News Letter, January 27, 1945

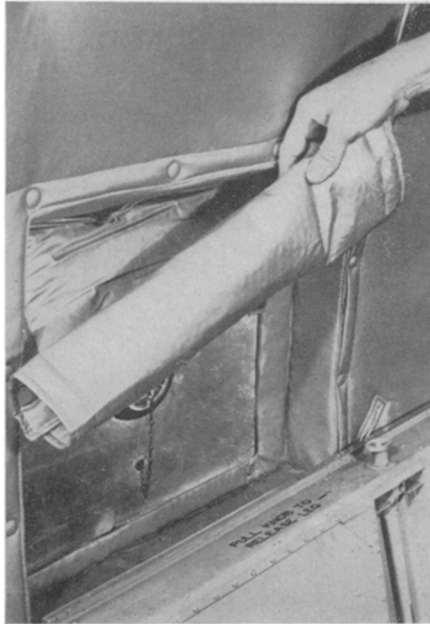
⚙️ **SLIDERULE** with decimal-point locator makes it possible for a person with limited mathematical background to solve and place the decimal point up to 19 places in difficult problems. Its simple, positive, mechanical method of placing the decimal point eliminates one of the biggest blocks in using a sliderule.

Science News Letter, January 27, 1945

⚙️ **CIRCULAR POWER SAW** for felling trees, improved design, runs parallel to the ground at the end of an arm projecting from a two-wheel mount guided by plow handles. The mount carries a six-horse-power air-cooled gasoline engine belted to the saw axis. A 24-inch hardwood tree can be felled in three minutes.

Science News Letter, January 27, 1945

⚙️ **GLASS-LINED BLANKETS**, a half-inch thick, are used to insulate Army planes and will probably be used in commercial planes after the war. The photo shows the installation of this material, made up of tiny glass fibers mount-



ed on a durable trim cloth, around a window and the protective curtain being rolled.

Science News Letter, January 27, 1945

⚙️ **HYDRO-BORING** machine, especially adapted for the boring of connecting rods, piston bushings, knuckle-pin holes and other boring jobs on aircraft engines, has a boring bar hydraulically operated, thus eliminating vibration. Boring heads on this precision apparatus have direct micrometer readings.

Science News Letter, January 27, 1945

⚙️ **MULTI-WEAVING** is a term applied to a new process in which metals, plastics, woods, rubber, and certain fabrics, may be combined into a composite

material for floor covering, ventilating and other grilles, lawn furniture and other uses. The narrow stripping is woven into many designs.

Science News Letter, January 27, 1945

⚙️ **BOAT PORTAGE** is made easy by means of a wheel attached above the bow, and slots to hold the paddles or oars in a projecting position from the stern on opposite sides so that they may be used as wheelbarrow handles. During portage the boat is upside-down, one end resting on the wheel and the other carried by the handles.

Science News Letter, January 27, 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 243.

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