

• New Machines and Gadgets •

⚙️ **TWO-SEATER** bicycle is made from an ordinary bicycle by the addition of a detachable low seat over the rear wheel. Two extensions to the pedals to hold the feet of the extra rider permit him to help propel the vehicle.

Science News Letter, December 30, 1944

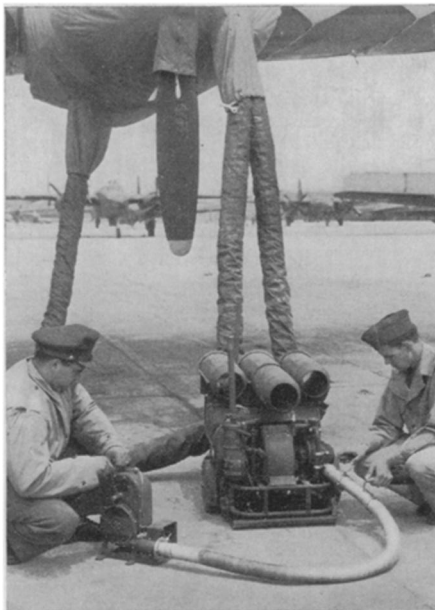
⚙️ **ILLUMINATED** socket wrench, of the familiar tire-removal type, has a tiny electric bulb set in the rear of each socket to light the nut when used in the dark. Flashlight battery, enclosed within an arm of the tool, furnishes the current which is controlled by switches in the center hub of the four-armed wrench.

Science News Letter, December 30, 1944

⚙️ **AERIAL** survey camera, hand-held when used from the cockpit of any plane, has a screen marked off in grids representing the prospective view through the lens of the terrain being photographed. The grid lines converge to a vanishing point in the true horizon, and a fixed horizontal position is obtained by a hair-line sight.

Science News Letter, December 30, 1944

⚙️ **COMPACT** heater on the ground under an airplane warms the engine so that it starts easily even in the coldest weather. The manually operated heater uses aviation fuel and, as shown in the picture, delivers hot air through a hose



into a cover which completely encases the engine.

Science News Letter, December 30, 1944

⚙️ **MIDGET** microprojector, a new apparatus developed from earlier forms, is a device for counting and measuring the size of dust particles in mines and other places by projecting their magnified images on a screen. A tungsten-arc lamp used with it for illumination radiates a steady light.

Science News Letter, December 30, 1944

⚙️ **CYLINDERS** of methyl bromide, electrically operated, and supplementary cylinders operated pneumatically, constitute the principal features of a fire-extinguishing apparatus for airplanes. Pipelines deliver the gas where needed and the light-weight system is easily installed.

Science News Letter, December 30, 1944

⚙️ **COAT STEAMING** and drying apparatus is a bodyshaped form adjustable to fit various sized coats and jackets. When a coat is put in place on the form, steam or hot air is forced outwardly under pressure through the fabric of the garment to bring out the nap, dry it, and otherwise improve its appearance.

Science News Letter, December 30, 1944

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 239.

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