

• New Machines and Gadgets •

⚙️ A GARDEN HOE with a broad V-shaped blade, bevelled on the lower side, has received a recent patent. The sharp blade is pulled between the rows of vegetable plants to cut the roots of grass and weeds.

Science News Letter, July 10, 1943

⚙️ SMALL CELLOPHANE BAGS are used by one aircraft manufacturer to hold heat-treated rivets ready for use instead of dumping them into bins or rivet-racks. The bags, filled automatically, keep the rivets in good condition and save time and money because rivets are seldom taken from a bin without some being dropped on the floor.

Science News Letter, July 10, 1943

⚙️ AN ELECTRIC STOPWATCH or timer can be started and stopped at will and reset to zero from any reading. An automatic built-in brake assures accurate stopping.

Science News Letter, July 10, 1943

⚙️ PRINTERS for making blueprints, or black and white prints, are now available which are fast, practical and inexpensive. Prints can be made in half a minute.

Science News Letter, July 10, 1943

⚙️ CARBON BRUSHES used in airplane generators have had their useful life extended fiftyfold by a new chemical process. It enables American bombers to fly higher and stay there longer. Inventor of the new process is shown ad-



justing a test device which reveals that carbon brushes now last more than 100 hours at high altitudes.

Science News Letter, July 10, 1943

⚙️ RAINCOATS with gutters to prevent water from the surface wetting the lower trouser legs have been patented. The gutters are made by turning up the lower edges of the coats and holding them up with special fasteners. The folded cloth forms spouts on the two sides.

Science News Letter, July 10, 1943

⚙️ TWO-USE GLASS JARS, designed by glass manufacturers for double duty, save material and factory labor. They are jars in which the housewife buys

foods in the store which can be used later for home canning. Jars with screw-tops and others that can be sealed in the home are two-use jars.

Science News Letter, July 10, 1943

⚙️ HEATING LAMPS for therapeutic use are available which are less brilliant, thereby minimizing eyestrain when the lamps are used in the line of vision.

Science News Letter, July 10, 1943

⚙️ LIGHT PLYWOOD MASTS up to 75 feet high and weighing 250 pounds replace metal tubular masts on ships.

Science News Letter, July 10, 1943

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 164.

• Just Off the Press •

AERIAL PHOTOGRAPHS AND THEIR APPLICATIONS—H. T. U. Smith—*Appleton-Century*, 372 p., illus., \$3.75. A beautifully illustrated book on a subject extremely important in modern warfare. By a geologist in the University of Kansas.

AIR-BORNE INFECTION: Some Observations on its Decline—Dwight O'Hara—*Commonwealth Fund*, 114 p., illus., \$1.50.

THE AMERICAN ANNUAL OF PHOTOGRAPHY, 1943—Frank R. Fraprie and Franklin I. Jordan, ed.—*Amer. Photographic Publishing Co.*, Vol. 57, 240 p., illus., \$1.50. Contains the Who's Who in Pictorial Photography.

AUSTRALIA—Griffith Taylor—*Dutton*, 455 p., illus., \$6; 2d ed. rev.

EDUCATION IN WARTIME AND AFTER — Stanford Univ. School of Education Faculty—*Appleton-Century*, 465 p., \$3.

FUNDAMENTALS OF ELECTRICITY: A Pre-induction Text—William H. Johnson and Louis V. Newkirk—*Macmillan*, 212 p., illus., \$2.

FUNDAMENTALS OF SHOPWORK: A Pre-induction Text—William H. Johnson and Louis V. Newkirk—*Macmillan*, 200 p., illus., \$2.

GETTING THERE: The Psychomotivatease—Robert M. Yergason—*Author*, 40 p., illus., \$1, paper. Humor and natural history.

THE HANDBOOK FOR HOME MECHANICS—Eugene O'Hare—*Garden City Publishing Co.*, 335 p., illus., 69c.

MANUAL OF LABORATORY GLASS-BLOWING — R. H. Wright — *Chemical Publishing Co.*, 90 p., illus., \$2.50.

PROTEINS, AMINO ACIDS AND PEPTIDES AS IONS AND DIPOLAR IONS—Edwin J. Cohn and John T. Edsall—*Amer. Chemical Soc.*, 686 p., \$13.50. Monograph Series, 90.

PSYCHOLOGY FOR THE FIGHTING MAN: Prepared for the Fighting Man Himself—A Committee of the *National Research Council* with the Collaboration of *Science Service* as a Contribution to the War Effort—*Infantry Journal-Penguin*, 456 p., illus., 25c paper; \$1.50, cloth.

TRAIL TO LIGHT: A Biography of Joseph Goldberger—Robert P. Parsons—*Bobbs-Merrill*, 353 p., \$3.

TWENTIETH CENTURY PHILOSOPHY: Living Schools of Thought—Dagobert D. Runes, ed.—*Philosophical Lib.*, 571 p., \$5.

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