

• New Machines and Gadgets •

⚙️ **JUMBO SLIDE FASTENERS** are provided for the tough canvas covers for bombers, tanks, cannon, machine guns and other heavy artillery equipment, saving much time in stripping such war implements of their coverings and getting them into action.

Science News Letter, August 29, 1942

⚙️ A "BOMB SHOVEL" which carries a charge of sand in its hollow handle ready for instant action in extinguishing incendiary bombs—and also ordinary oil and magnesium fires—is a novel implement provided by a western shipyard.

Science News Letter, August 29, 1942

⚙️ AN EMERGENCY FLASH LAMP of novel and convenient design is used by English night watchmen. The lamp turns on a horizontal axle, like a gun in its mount, so that when set on a table the beam may be thrown in any desired direction. A large ring at the top permits the lamp to be hung from the arm like a brakeman's lantern. But in this case the light can be directed vertically downward to guide the watchman's footsteps.

Science News Letter, August 29, 1942



⚙️ THE PLASTIC STRIP seen on the left side of the picture prevents light from leaking around the edge of a blackout shade. The molding is easily attached to any window frame by means of screws.

Science News Letter, August 29, 1942

⚙️ RUBBERLESS ERASERS are made of resin, oil and a South American gum, and are said to remove mistakes about as well as the old rubber.

Science News Letter, August 29, 1942

⚙️ MAGNETIC CLAMPS, flat cylindrical electromagnets, are employed to hold steel sheets together while they are being welded. The magnets not only hold the sheets, but draw them together with a 2,000-pound pull.

Science News Letter, August 29, 1942

⚙️ HARDENED TYPEWRITER cylinders can be made as good as new, or even better, by sand-blasting. To replace the platen would require about a pound of rubber. About 1,000,000 pounds of rubber a year could be saved in this way, it is estimated. The process takes off less than a thousandth of an inch from the surface—merely removing the slipperiness.

Science News Letter, August 29, 1942

If you want the sources of the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N. St., N. W., Washington, D. C., and ask for Gadget Bulletin 119.

Books Just Off the Press

BASIC HORTICULTURE—Victor R. Gardner—Macmillan, 441 p., illus., \$3.75.

CLASSIFICATION OF WHEAT VARIETIES GROWN IN THE U. S. IN 1939—J. Allen Clark and B. B. Bayles—Govt. Print. Off., 146 p., illus., 35c.

CULTURE ELEMENT DISTRIBUTIONS: XX, NORTHEAST CALIFORNIA — Erminie W. Voegelin—Univ. of Calif. Press, 251 p., \$2.25.

DIRECTORY OF ORGANIZATIONS IN AMERICA CONCERNED WITH CHINA—Wilma Fairbank—American Council of Learned Societies, 116 p., 50c.

HOW THE JAP ARMY FIGHTS — Paul W. Thompson, Harold Doud, John Scofield and the Editorial Staff of the Infantry Journal—Penguin, 158 p., illus., 25c.

LEVELS OF INTEGRATION IN BIOLOGICAL AND SOCIAL SYSTEMS — Robert Redfield, ed.—Jaques Cattell Press, 240 p., \$2.50.

MODERN ELECTROPLATING—Electrochemical Society, 399 p., \$5.50.

NUTRITION AND THE WAR — Geoffrey Bourne—(2d ed. rev. & enl.)—Cambridge (Macmillan), 148 p., \$1.50.

ORGANIC CHEMISTRY — Reynold C. Fuson and H. R. Snyder—Wiley, 506 p., illus., \$3.50.

ORGANIC REACTIONS — Roger Adams — Wiley, 391 p., \$4.

PETROLEUM DEVELOPMENT AND TECHNOLOGY, 1942—Petroleum Division—Amer-

ican Institute of Mining and Metallurgical Engineers, 565 p., \$5. (Transactions, vol. 146).

PHYSIOLOGICAL HYGIENE (Rev. ed.) — Cleveland Pendleton Hickman—Prentice-Hall, 482 p., \$3.25.

PROCEDURE HANDBOOK OF ARC WELDING DESIGN AND PRACTICE — (7th ed.) — Lincoln Electric Co., 1267 p., illus., \$1.50.

SCIENCE EXPERIENCES FOR ELEMENTARY SCHOOLS, Charles K. Arey — Teachers College, Columbia Univ., 98 p., 95c.

SOUTH OF THE RIO GRANDE: AN EXPERIMENT IN INTERNATIONAL UNDERSTANDING—Agnes De Lima, Tompsie Baxter, and Thomas J. Francis—Teachers College, Columbia Univ., 74 p., illus., 75c.

SPHERICAL TRIGONOMETRY WITH NAVAL AND MILITARY APPLICATIONS—Lyman M. Kells, Willis F. Kern and James R. Bland—McGraw-Hill, 163 p., \$1.50.

SUCCULENT PLANTS OF NEW AND OLD WORLD DESERTS—E. J. Alexander—New York Botanical Garden, 64 p., illus., 50c.

TEXTBOOK OF ANATOMY AND PHYSIOLOGY — (11th ed.) — Diana Clifford Kimber, Carolyn E. Gray and Caroline E. Stackpole—Macmillan, 769 p., illus., \$3.

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• Glances at New Books •

➤ THIS UNIQUE BOOKLET is a popular essay called A COMET STRIKES THE EARTH; How to Recognize Meteorites, Visitors from Space—H. H. Ninger—Desert Magazine Press. Brief but informative, it includes a small bit of actual meteorite set into a recess punched through a corner of the pages.

Science News Letter, August 29, 1942

➤ PHYSICAL CAUSES of the weather and their general features are discussed in FUNDAMENTALS OF PHYSICAL CLIMATOLOGY by V. Conrad (*Blue Hill Meteorological Observatory*). It is comprehensible to the layman but also suitable to the specialist.

Science News Letter, August 29, 1942

➤ THE DEMAND for professional radio operators is ever increasing. The RADIO CODE MANUAL by Arthur R. Nilson (*McGraw Hill*) starts from scratch and teaches the code in twenty lessons. It then tells how to increase your speed by constant practice.

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