

• New Machines and Gadgets •

⚙️ **NEW CONTAINERS** to package chemicals are necessary because of the shortage of steel drums. Satisfactory substitutes developed include fiber drums, pulpboard kegs, slack barrels, glass bottles, jars and carboys, and an asphalt-lined paper bag.

Science News Letter, February 27, 1943

⚙️ **A COLLAPSIBLE**, adjustable accessory seat for passenger vehicles has just been patented. Designed for children, the seat is small and elevated so youngsters can comfortably look out of the window. A device securely holds the accessory seat in position atop an ordinary seat.

Science News Letter, February 27, 1943

⚙️ **FLUORESCENT TREATED** plastic "envelopes" together with near-ultraviolet rays, make it possible to read ordinary printed matter such as pilot charts and maps without destroying night vision. The unseen ray directed through the fluorescent transparent envelope emits a glow sufficient to read material under the plastic.

Science News Letter, February 27, 1943

⚙️ **AN ILLUMINATED** razor handle recently patented illuminates the face at the point of contact with the blade. A small electric bulb in the end of the handle furnishes light without glaring in the shaver's eyes.

Science News Letter, February 27, 1943

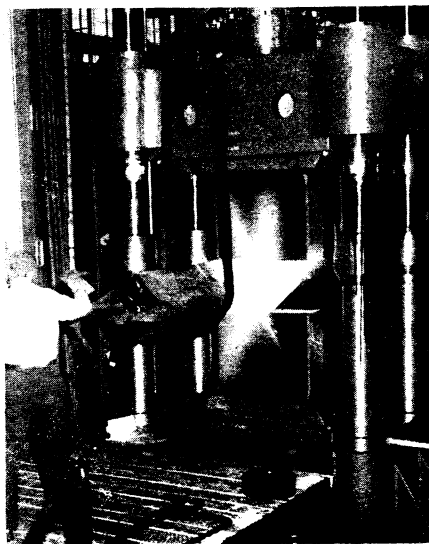
⚙️ **A TELECHRON** clock, a self-starting type, placed in circuit with the compressor of an oil burning furnace will register the number of hours and minutes the furnace is in operation. By knowing the rate of consumption of oil the home owner can keep daily consumption within the rationed oil supply.

Science News Letter, February 27, 1943

⚙️ **A VERMIN TRAP** recently patented kills house insects and bugs with an electric shock from the house current. Vermin getting near the open top receive a shock which causes them to fall in. Then they get another shock if they try to escape.

Science News Letter, February 27, 1943

⚙️ **MOTOR-DRIVEN** hydraulic pumps power an open forging press being used for production of military equipment. The new press of 1000-ton capacity is



said to be cheaper to operate than the usual steam hydraulic press now in use and cheaper to install because there is less auxiliary equipment. Pressure is built up fast and then the ram reverses with smooth, shockless action. A hot steel billet is shown being forged between anvil blocks.

Science News Letter, February 27, 1943

⚙️ **TRANSPARENT** packaging material originally developed for food containers now protects airplane engines. A bag is slipped over the engine, air within is removed by suction and the bag heat-sealed. This prevents rusting during shipment and storage and also saves 50 to 75 man-hours ordinarily needed to grease and degrease an engine.

Science News Letter, February 27, 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, D. C., and ask for Gadget Bulletin 145.

• Glances at New Books •

➤ **UNITED STATES AT WAR**, a special publication of the *Army and Navy Journal* (\$3), is a vivid record, in print and pictures, of the first year of American participation in the present conflict. The stories of the shares borne by all branches of the service, by all groups of citizens, by all types of industry, are told by topmost leaders, headed by Commander-in-Chief F. D. Roosevelt himself. This volume may therefore be taken as thoroughly authentic and authoritative.

Science News Letter, February 27, 1943

➤ **BIOLOGY SEASON BY SEASON** sets forth in its title the unique and highly interesting plan of its contents: to enable the teacher to use biological phenomena observable at the moment in illustration of the general principles to be inculcated. Intended primarily for use in Catholic secondary schools, it is the work of Sister Mary Anthony Payne. (*American Book Co.*, \$2.32 Textbook)

Science News Letter, February 27, 1943

➤ **MEN** hoping to specialize in radio, aviation, mechanics and allied fields after entering the service will be interested in **FUNDAMENTALS OF ELECTRICITY** by Lester R. Williard (*Ginn and Company*, \$1.24). Written according to recommendations by the War Department.

Science News Letter, February 27, 1943

Books of the Week

ARCHAEOLOGICAL RESEARCHES IN THE NORTHERN GREAT BASIN—L. S. Cressman—*Carnegie Institution*, 260 p., illus., \$3, paper and \$4, cloth.

ELEMENTS OF RADIO—Abraham Marcus and William Marcus—*Prentice-Hall*, 699 p., illus., trade ed., one vol., \$4, two vols., \$2.45 each; text ed. for schools only, one vol. \$3.20; two vols., \$1.96 ea. Prepared under editorship of Ralph E. Horton.

THE GARMENT OF GOD: Influence of Nature in Human Experience—John C. Merriam—*Scribner's Sons*, 162 p., \$2.

INSECT INVADERS—Anthony Standen—*Houghton Mifflin*, 228 p., illus., \$3.50.

JULES VERNE—George H. Waltz, Jr.—*Holt*, 223 p., \$2.50.

MACHINE SHOP SCIENCE AND MATHEMATICS: Related Science and Mathematics for Vocational Classes—Joseph J. Eaton and Albert V. Free—*Manual Arts Press*, 187 p., illus., \$2, cloth.

AN OUTLINE OF WEATHER SCIENCE—Charles William Barber—*Pitman*, 248 p., illus., \$2.50.

QUESTIONS AND ANSWERS FOR MARINE ENGINEERS: Book III—Auxiliaries—H. C. Dinger, comp.—*Simmons-Boardman*, 139 p., \$1.

THE RING-NECK SNAKES, GENUS DIADOPHIS—Frank Nelson Blanchard—*Chicago Academy of Sciences* (Bulletin of the Chicago Academy of Sciences), 144 p., illus., \$1.25.

SLAVERY IN CHINA DURING THE FORMER HAN DYNASTY 206 B. C.—A. D. 25—C. Martin Wilbur—*Field Museum*, 490 p., \$4.