

# • New Machines and Gadgets •

☼ IDENTIFYING the 55 navigation stars is simplified by a star finder which is especially useful as a training instrument. A central cylinder is adjusted so that it is parallel with the earth's axis. Settings are then made for local time, date and the star position which is printed on the instrument's cylinder. The sighting tube will then point to the chosen star with less than a degree error.

Science News Letter, October 16, 1943

☼ VAST UNDERGROUND storage tanks to hold millions of gallons of aviation gasoline and other petroleum fuels are being built at coastal points and naval outposts. They are made of bomb-proof concrete, and lined with synthetic rubber sheets to prevent leakage and chemical action between the gasoline and the concrete.

Science News Letter, October 16, 1943

☼ MOBILE HOUSING units, each providing 250 square feet of floor space, fold into packages 16½ feet long, 8 feet wide and 26 inches thick. They use an accordion-opening technique and may be erected in a few minutes.

Science News Letter, October 16, 1943

☼ TINY GLASS JEWELS used in electrical and other instruments are quickly counted by using a tray with 1,000 holes the size of a pinhead in the bottom. Jewels are rocked back and forth in the

tray until each hole contains one, as shown in the photograph. A slide below the bottom is pulled and the jewels drop through.

Science News Letter, October 16, 1943

☼ FILTER CLOTHS made of vinyl resin yarn are acid and alkali-resistant, it is claimed. This plastic fabric can be safely used in chemical, pharmaceutical and dyestuff laboratories and manufacturing industries, the manufacturer states.

Science News Letter, October 16, 1943

☼ CORRUGATED LEATHER shoe soles may become common after the war. A sole with ridges and furrows running crosswise provides non-skid qualities and is claimed to be extremely flexible.

Science News Letter, October 16, 1943

☼ A PORTABLE ODORMETER just patented evaluates odors, particularly objectionable odors near factories. By its use polluted air is compared with pure air from an attached tank to accurately indicate effectiveness of corrective measures.

Science News Letter, October 16, 1943

☼ SPECIAL spare-lamp boxes made of a light plastic contain all the various light bulbs needed on a warplane. An inner panel has holes into which the bulbs fit. Sponge rubber is used to protect them.

Science News Letter, October 16, 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 178.

## • Just Off the Press •

AUTOMOTIVE MECHANICS: Training for Victory—Clarence G. Barger—*American Book*, illus., 342 p., \$1.60. This is a combination of the author's *Automotive Mechanics I* and *Automotive Mechanics II*.

AUTOMOTIVE MECHANICS—II: Training for Victory—Clarence G. Barger—*American Book*, illus., 336 p., \$1.24.

BASIC ENGLISH AND ITS USES—I. A. Richards—*Norton*, 143 p., \$2.

CELLULOSE AND CELLULOSE DERIVATIVES—Emil Ott, ed.—*Interscience*, illus., 1176 p., \$15. A technical reference book.

FUNDAMENTALS OF SHOPWORK: A Pre-Induction Course at the Foundational Level—D. J. Swartz, M. J. Gunerman, A. Lafon—*Holt*, illus., 474 p., \$1.60.

HEAT AND THERMODYNAMICS—Mark W. Zemansky—*McGraw-Hill*, illus., 390 p., \$4, 2nd ed. An intermediate text-book for students of physics, chemistry and engineering.

HYPER AND ULTRAHIGH FREQUENCY ENGINEERING—Robert I. Sarbacher and William A. Edson—*Wiley*, 644 p., illus., \$5.50. Includes the generation, transmission and reception of quasi-optical waves. This book is intended for senior students of electrical engineering or persons with equivalent training.

AN INTRODUCTION TO WEATHER AND CLIMATE—Glenn T. Trewartha—*McGraw-Hill* 545 p., illus., \$4, 2nd ed.

KNOW YOUR HAY FEVER: with chapters on Clinical Applications by A. B. Berresford—A. P. Sperling—*Frederick Fell*, illus., 241 p., \$2.

NATURALIST AT LARGE—Thomas Barbour—*Little, Brown*, 314 p., illus., \$3.50.

RADIO: Training for Victory—R. E. Williams, C. A. Scarlott—*American Book*, illus., 282 p., \$1.48. This is a combination volume of the authors' *Radio I* and *Radio II*.

RADIO—II: Training for Victory—R. E. Williams, C. A. Scarlott—*American Book*, illus., 276 p., \$1.24. A pre-induction training text.

TEXTBOOK OF QUANTITATIVE INORGANIC ANALYSIS—I. M. Kolthoff, E. B. Sandell—*Macmillan*, illus., 794 p., \$4.50, rev. ed.

TUNGSTEN: Its History, Geology, Ore-Dressing, Metallurgy, Chemistry, Analysis, Applications, and Economics—K. C. Li and Chung Yu Wang—*Reinhold*, 325 p., illus., \$7.

WEATHER AROUND THE WORLD—Ivan Ray Tannehill—*Princeton Univ.*, 200 p., illus., \$2.50.

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