

• New Machines and Gadgets •

⚙️ **COOKING LARGE** quantities of meat by an electric current is now possible by using an electric conductance device recently patented. Regulation of cooking speed and avoidance of immersing the meat in an electrolytic solution overcome objections which the inventor claims were present in similar devices used in the past for small-scale cooking, such as frankfurters.

Science News Letter, January 2, 1943

⚙️ **GLASS FIBER** thermal insulating wool is being used to absorb sound in test units for plane engines. Testing as many as a dozen engines at one time presents acoustical problems due to great volume of sound, high-wind velocities and complex sound patterns. The glass fiber not only prevents deafness among workers but avoids annoyance to others in the neighborhood.

Science News Letter, January 2, 1943

⚙️ **A PLASTIC** petroleum, for lubricating the magazines of marine anti-aircraft guns, has been developed for use either in freezing Icelandic waters or in the hot Pacific, and which prevents salt water from rusting the metal.

Science News Letter, January 2, 1943

⚙️ **A THERMOPLASTIC** material capable of replacing steel and other scarce metals has been added to the growing family of resin-treated laminated paper products. It is said to be tough and sturdy but lightweight, with low water absorption.

Science News Letter, January 2, 1943

⚙️ **A PILL BOX** which dispenses only one pill at a time has been recently patented. One pill at a time pops from a small opening in the molded, pocket-size container, the remainder being inaccessible and protected from dust and other contamination.

Science News Letter, January 2, 1943

⚙️ **NAVY GOGGLES** have unusual light control features. The polarizing lenses filter out reflected glare and sunburn rays and can be rotated by a control button to admit or exclude as much light as desired. They are now in mass production for use to conserve and sharpen the eyesight of America's embattled sailors.

Science News Letter, January 2, 1943

⚙️ **A FLASHLIGHT** for fishermen which can be held in the mouth while using both hands to bait a hook, and might also come in handy for hunting a collar button during a blackout, has recently been patented.

Science News Letter, January 2, 1943

⚙️ **SINUS** sufferers may soon wear their heat treatment to bed with them. An electrically heated mask has recently been patented for this purpose.

Science News Letter, January 2, 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 136.

• Just Off the Press •

AIRPLANE DESIGN MANUAL—Frederick K. Teichmann—*Pitman*—440 p., illus., \$4.50. Revised edition. Technical.

CHILDREN'S CENTERS—A Guide for Those Who Care For and About Young Children—Rose H. Alschuler, ed.—*Morrow*, 168 p., illus., \$1.50. Issued by National Commission for Young Children. A practical and timely book in a day when parents are more and more engaged in the war effort.

THE CRAYFISHES OF FLORIDA—Horton H. Hobbs, Jr.—*Univ. of Florida*—180 p.—24 plates, \$2.25. Biological Science Series, vol. III, no. 2.

DISTRIBUTION AND VARIATION OF THE HAWAIIAN TREE SNAIL ACHATINELLA APEXFULVA DIXON IN THE KOOLAU RANGE, OAHU—D'Alté A. Welch—*Smithsonian Institution*—236 p., illus., \$1.

EXPLORING FIELD MUSEUM—*Field Museum of Natural History*—84 p., illus., 60. Exhibits from each department in the museum, illustrated with nice color photographs, and described with brief text.

THE FOOD YOU EAT: A Practical Guide to Home Nutrition—Samuel and Violette Glasstone—*Univ. of Oklahoma Press*, 277 p., \$2.25.

HOW TO READ BLUEPRINTS—W. Clyde Lamme—*Popular Mechanics Press*—96 p., illus., \$1.50.

INTERNATIONAL ECONOMIC DEVELOPMENT PUBLIC WORKS AND OTHER PROBLEMS—Lewis L. Lorwin—*Govt. Print. Office*—111 p., 30c. National Resources Planning Board.

MATHEMATICAL RECREATIONS—Maurice Kraitchik—*Norton*, 329 p., illus., \$3.75.

MATHEMATICS FOR MECHANICS—William L. Schaaf—*Garden City*, 298 p., illus., \$2. Arithmetic through shop trigonometry.

MEDICAL RELIEF IN EUROPE: Questions for Immediate Study—Melville D. MacKenzie—*Oxford Univ. Press*, 67 p., 70c. Post-war problems.

THE NATURAL-HISTORY BACKGROUND OF CAMOUFLAGE—Herbert Friedmann—*Smithsonian Institution*—17 p., illus. Free upon direct application Smithsonian Institution. (Smithsonian Institution War Background Studies Number Five.)

THE OCEANS: Their Physics, Chemistry, and General Biology—H. U. Sverdrup, Martin W. Johnson, and Richard H. Fleming—*Prentice-Hall*, 1087 p., illus., \$10. Text edition, \$8.

ORIGIN MYTH OF ACOMA AND OTHER RECORDS—Matthew W. Stirling—*Govt. Print. Off.*, 123 p., 17 plates, 35c. Smithsonian Institution Bureau of American Ethnology, Bulletin 135.

THE PLANT COMMUNITIES OF THE WELAKA AREA: With special reference to correlations between soils and vegetational succession—Albert Middleton Laessle—*Univ. of Florida*—143 p., illus., \$1.50.

THE PRACTICAL OUTLINE OF MECHANICAL TRADES FOR HOME STUDY—William L. Schaaf, ed.—*Garden City*, 954 p., illus., \$3.95. Covers mathematics from arithmetic through shop trigonometry; mechanical drawing; applied physics; practical chemistry; machine elements and machine shop practice; woodworking; and electrical trades.

QUESTIONS AND ANSWERS FOR MARINE ENGINEERS: Book I: Boilers—H. C. Dinger—*Simmons-Boardman*—168 p., \$1.

QUESTIONS AND ANSWERS FOR MARINE ENGINEERS: Book II—Engines—H. C. Dinger—*Simmons-Boardman*, 186 p., illus., \$1.

RELIEF FOR EUROPE—National Planning Association—*National Planning Ass'n*—59 p., 25. (Planning Pamphlets No. 17.)

REPORT OF THE COMMITTEE ON THE MEASUREMENT OF GEOLOGIC TIME 1941-1942—*National Research Council*—68 p., 50c.

A SKULL OF BISON LATIFRONS FROM THE PLEISTOCENE OF NORTHERN CALIFORNIA—V. L. Vanderhoof—*Univ. of California Press*—17 p., 2 plates—illus., 35c.

A START IN METEOROLOGY: An Introduction to the Science of the Weather—Armand N. Spitz—*Henley*, 95 p., illus., \$1.50. For young people.

STUDIES OF CENOZOIC VERTEBRATES OF WESTERN NORTH AMERICA AND OF FOSSIL PRIMATES—Arthur B. Drescher and others—*Carnegie Institution*—222 p., illus., \$2.25 paper cover, \$2.75 cloth.

SYSTEMATICS AND THE ORIGIN OF SPECIES—Ernst Mayr—*Columbia Univ. Press*—334 p., illus., \$4.

A WORLD TO LIVE IN—Leland D. Case—*Rotary International*—96 p., 25c. Cheaper in lot numbers from the Rotarian Magazine. Selected articles from the Rotarian magazine.