

# • New Machines and Gadgets •

☼ **TAKING THE SHINE OFF** old suits and coats is the achievement claimed by a new chemical product. This preparation, neatly packaged in a compact kit with wooden block and re-napping cloth, is designed to remove the shine from clothing or upholstery without injury to the fabric.

Science News Letter, October 30, 1943

☼ **COTTON DRYING** is accomplished economically with a new drier furnace which uses direct heat from oil or gas. Fire-brick lines the combustion chamber, but common brick is used on the outside. A filter of fine glass fibers screens out sparks and dirt from the hot air.

Science News Letter, October 30, 1943

☼ **AN ELECTRIC DEVICE**, still in an experimental stage, gives promise of being able to sort out messages on a teletype circuit and pass to the local teletype printing machine only messages intended for that local station. It works with a combination of relays.

Science News Letter, October 30, 1943

☼ **UNIQUE two-color wall charts** show the proper rivets to use in various types of work. They were prepared by a rivet manufacturer for use in shops and schools.

Science News Letter, October 30, 1943

☼ **RELIEF from arthritis pains** is offered by transparent plastic cups placed inside the human body over the bone heads in ball-and-socket joints. The excess growth on the bone head is re-



moved before the cup is put into position. The plastic acts as a lubricant, and being transparent, does not prevent taking X-ray photographs. A cup is shown in the illustration.

Science News Letter, October 30, 1943

☼ **AIRPLANE liquid-cooled engines** may employ a new method of dissipating excess heat. An invention, now patented, uses the sheet metal wing conduits bring the cooling liquid inside the wings to fins attached to their inter-

rior surfaces for wing dissipation.

Science News Letter, October 30, 1943

☼ **ZINC AND CADMIUM surfaces** may be protected against corrosion by a new, super-thin coating which is easily applied. The coating does not chip or flake off because it is soaked up by the plated metal and becomes an integral part of it.

Science News Letter, October 30, 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 180.

## • Just Off the Press •

**AMERICAN ANNUAL OF PHOTOGRAPHY 1944**—F. R. Fraprie and F. I. Jordan, eds.—*Amer. Photographic Pub.*, illus., 206 p. \$1.50 paper, \$2.25 cloth, vol. 58.

**ANNUAL REPORT OF THE BOARD OF REGENTS OF THE SMITHSONIAN INSTITUTION**: Showing the operations, expenditures, and condition of the institution for the year ended June 30, 1942—*Gov't Printing Office*, illus., 421 p., \$1.50.

**BIOLOGICAL SYMPOSIA**: A series of Volumes Devoted to Current Symposia in the Field of Biology—Jaques Cattell, ed.—*Jaques Cattell*, 334 p., illus., \$3.50.

**BURNING AN EMPIRE**: The Story of American Forest Fires—Stewart H. Holbrook—*Macmillan*, illus., 229 p., \$2.50.

**CULTURE ELEMENT DISTRIBUTIONS: XXIV CENTRAL SIERRA**—B. W. Aginsky—*Univ. of Cal.*, illus., 75 p., 75c, paper.

**CULTURE ELEMENT DISTRIBUTIONS: XXIII NORTHERN AND GOSIUTE SHOSHONI**—Julian H. Stewart—*Univ. of Cal.*, illus., 129 p., \$1.25, paper.

**FIRST THE FLOWER, THEN THE FRUIT**—Jannette M. Lucas—*Lippincott*, illus., 72 p., \$2.

**FUNDAMENTALS OF RADIO**: For Those Preparing For War Service—L. O. Gorder, K. A. Hathaway, C. H. Dunlap—*Amer. Tech. Soc.*, illus., 372 p., \$2.

**THE MEAT WE EAT**—P. Thos. Ziegler—*Interstate Pub.*, 376 p., illus., \$2.70.

**NOTES ON THE CULTURE OF THE YANA**—E. Sapir and L. Sapir—*Univ. of Cal.*, illus., 55 p., 75c, paper.

**PHYSIQUE, PERSONALITY AND SCHOLARSHIP**: A Cooperative Study of School Children—M. M. Adkins and others—*Nat. Res. Council*, illus., 705 p., \$1.50, paper.

**PLAY CENTERS FOR SCHOOL CHILDREN**: A Guide to Their Establishment and Operation—Adele Franklin and Agnes E. Benedict—*Morrow*, 153 p., illus., \$1.50.

**SIMPLIFIED MATHEMATICS AND HOW TO USE THE SLIDE RULE**: F. A. Rappolt—*Doubleday, Doran*, 300 p., \$2.95.

**SLIDE RULE SIMPLIFIED**—C. O. Harris—*Amer. Tech. Soc.*, illus., 258 p., \$3.50 with slide rule, \$2.50 without rule.

**SQUARE PEGS IN SQUARE HOLES**—Margaret E. Broadley—*Doubleday, Doran*, 211 p., \$2.50.

**THE STAR FINDER**—Henry M. Neely—*Smith & Durrell*, 65 p., illus., \$2.75. A new kind of practical guide to the heavens for those who want to know the night sky. Charts in the book can be used for locating stars.

**THE STRUCTURE OF MORALE**—J. T. MacCurdy—*Cambridge Univ.*, 224 p., \$2.

**A TREASURY OF SCIENCE**—Harlow Shapley, Samuel Rapport, and Helen Wright, eds.—*Harper*, 716 p., \$3.95.

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