

• New Machines and Gadgets •

☛ **THE MEDICINE** dropper with its rubber bulb has been eliminated by at least one drug dispenser in the following way. The top of the bottle is covered with a new type of cellulose film in which are two small holes. The medicine is dispensed by allowing it to drop from one or other of the two holes. The bottle is the same as that formerly used and sold with a medicine dropper included.

Science News Letter, October 10, 1942

☛ **TOOTHPASTE TUBES** of lead have won the approval of the American Dental Association, and two companies are making them. More than 50 types of waxes and resinous coatings have been designed to protect various kinds of contents from the lead, and it is said that not more than 20 parts of lead per million by weight would be absorbed by any material.

Science News Letter, October 10, 1942

☛ **X-RAY PICTURES** in industry may be speeded up by a faster fine-grain photographic film now available. The new film is said to be twice as fast as those now in general use. Shorter exposures or lower voltages will also reduce wear on equipment.

Science News Letter, October 10, 1942

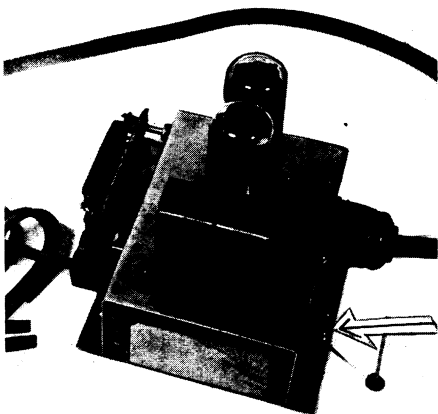
☛ **RAYON SHOE** laces can be treated with a combination of waxes to make them more flexible. And when you tie a knot it remains tied.

Science News Letter, October 10, 1942

☛ **TO KEEP SALT** dry is the object of a salt shaker recently patented which the inventor claims is moisture-proof. The shaker has a single opening at the top through which the salt may issue. The flow of salt is retarded by a sort of valve shaped like an hour glass except that the narrow portion is longer. This narrow portion fits loosely in the hole at the top. When the shaker is inverted, the valve drops down, opening the hole. When the shaker is turned upright again, the valve drops back closing the hole and preventing entrance of moisture.

Science News Letter, October 10, 1942

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 125.



☛ **LITTLE THINGS** control big things in the device illustrated. It is an electronic control instrument in which the smallest things in the world, the electrons, may control the movements of massive machinery, and do it with a nicety and fineness never attained by any other means. In the compact little instrument shown, the movement of a cat's whisker will reverse the rotation of an electric motor. It will respond to variations of a light beam and to many other delicate forces or movements.

Science News Letter, October 10, 1942

• Books Just Off the Press •

AFTER EFFECTS OF BRAIN INJURIES IN WAR—Kurt Goldstein—Grune & Stratton, Inc., 250 p., illus., \$4.

THE AMERICAN STUDENT FLYER — Merrill C. Hamburg and George H. Tweney—Pitman, 692 p., illus., \$1.50. A high school textbook not about flying but actually teaching it.

ARC WELDING — American Technical Society, 103 p., illus., \$1.25.

A BIBLIOGRAPHY OF BOOKS FOR YOUNG CHILDREN—Association for Childhood Education, 79 p., 50 c.

THE CRANE FLIES (TIPULIDAE) OF THE GEORGE RESERVE, MICHIGAN—J. Speed Rogers—Univ. of Mich., 128 p., illus., \$1.25.

EXPERIMENTS IN ORGANIC CHEMISTRY — E. Wertheim—Blakiston, 221 p., diagr., \$1.35.

FRUITS OF THE EARTH—Jannette May Lucas—Lippincott, 71 p., illus., \$2. Excellent book for armchair and dirt farmers. Tells origin, travels, adaptation and development of many everyday fruits, Illustrations delightful.

THE FUTURE OF TELEVISION—Orrin E. Dunlap, Jr.—Harpers, 194 p., \$2.50.

GAS WELDING — American Technical Society, 1942, 92 p. illus., \$1.25.

HALF A CENTURY OF PROGRESS—Ira L. Smith—Association for Childhood Education, 48 p., 50c. A review of the past fifty years of the International Kindergarten Union, now the Association for Childhood Education.

HEALTH FACTS FOR COLLEGE STUDENTS (4th ed.)—Maude Lee Etheredge—Saunders, 379 p., diagr., \$2.25.

AN INTRODUCTION TO SOCIOLOGY—John Lewis Gillin and John Philip Gillin—Macmillan, 806 p., illus., \$3.75 (corrected price).

JANE'S ALL THE WORLD'S AIRCRAFT 1941 — Leonard Bridgman, ed. — Macmillan, 449 p., illus., \$19. Complete record of aeronautical progress throughout the world during the year.

JANE'S FIGHTING SHIPS, 1941—Francis E. McMurtrie, ed.—Macmillan, 529 p., illus., \$19. Complete and authentic information on all the navies of the world with over 3,000 photographs and illustrations.

MINORITY PEOPLES IN A NATION AT WAR—Thorsten Sellin (ed.)—Amer. Academy of Pol. & Social Sciences, 276 p., paper \$2, cloth \$2.50. Raises delicate problems of prime importance in winning the war and preparing peace.

A MILLION YEARS OF HUMAN PROGRESS—Ira D. Cardiff—Dorset, 147 p., \$2.

NATURAL HISTORY WITH A CAMERA—L. W. Brownell—Amer. Photographic Publishing Co., 292 p., illus., \$3.75. Reminding us that war is only a part of the modern scene; this book by the outstanding nature photographer will appeal to camera artists and naturalists alike.

PRINCIPLES OF STELLAR DYNAMICS—S. Chandrasekhar—Univ. of Chicago Press, 251 p., illus., \$5.

RECORDS AND REPORTS—Association for Childhood Education, 32 p., 35c.

SEEDTIME AND HARVEST TODAY—Reginald G. Hainsworth, Oliver E. Baker and Albert P. Brodell—U. S. Gov't Print. Office, 97 p., illus., 25c. Valuable book for farmers. Contains maps, charts and illustrations.

SO YOUR HUSBAND'S GONE TO WAR—Ethel Gorham—Doubleday, 223 p., \$2. Written by the head fashion writer of a smart Fifth Avenue store, who is also a wartime wife and mother.

STAR MAPS FOR BEGINNERS—I. M. Levitt and Roy K. Marshall—Published by authors, 32 p., illus., 50c.

VICTORY OVER FEAR—John Dollard—Reynal, 213 p., \$2.

WHO'S WHO IN AVIATION—Writers' Program-WPA—Ziff-Davis Co., 486 p., \$5. Welcome addition to the growing family of Who's Whos. Marked by some conspicuous gaps which may be corrected in later editions.

WARTIME GUIDE BOOK—Popular Science Pub. Co., 260 p., illus., diagr., \$1.98.