

• New Machines and Gadgets •

⚙️ A RADIO receiver that does not re-emit radio waves that are often picked up by other receivers as squeals and howls, has been developed for use on ships at sea. Because the wave broadcast by a bad squawker can be used by enemy craft to locate the ship from which it came, it has been necessary to forbid the use of radio receivers aboard ship. Seamen who do not appreciate the danger are tempted to smuggle radios in. The new receiver, the manufacturer claims, has cut re-radiation to such a low level that it cannot be detected at a distance of more than 25 feet.

Science News Letter, October 31, 1942

⚙️ A sound muffler based on the principle of a bugle horn used backwards has recently been patented. The bugler, as everyone knows, makes just a little sputtering sound at the mouthpiece and this is magnified by the horn to the loud clear tone of the bugle. Reversely a loud sound entering the mouth of the horn will be reduced to a little squeak at the other end, and can be completely suppressed by a small amount of sound absorbing material.

Science News Letter, October 31, 1942



⚙️ TO RENDER the headlights and taillights of army jeeps and other vehicles invisible from the air, yet provide enough light for driving, the lenses shown in the illustration are fitted over the lamps. They are made of the same acrylic plastic

material that is widely used for bomber noses, gun turrets and similar purposes. They are weatherproof.

Science News Letter, October 31, 1942

⚙️ BULL CONTROL is the stated object of a recent patent. The control consists of a stick, the lower end of which is fastened to the nose ring, the middle to a band around the bull's head, while the upper end projects some distance above the bull's head. The idea is that if the bull attempts to tear through or under a gate or fence, he will be discouraged by a tweak of the nose.

Science News Letter, October 31, 1942

⚙️ LIPSTICK, compact and mirror are combined in a device recently patented which can be operated entirely with one hand while the other carries a handbag and bundles. Pushing the lipstick out, releases the compact folded against it, which swings out. Then the lid carrying the mirror flies open. In applying the lipstick, the mirror is then substantially parallel to the face.

Science News Letter, October 31, 1942

⚙️ ICE ON AIRPLANE wings is signalled to the pilot and the amount formed is measured by a new electronic device. It also automatically turns on the de-icers the moment they are needed.

Science News Letter, October 31, 1942

• Books Just Off the Press •

ACTION AGAINST THE ENEMY MIND — Joseph Bornstein and Paul Milton.—*Bobbs-Merrill*, 294 p., \$2.50. Psychological warfare from the point of view of newspapermen, one of whom is now with the OWI.

ARCHAEOLOGICAL AND GEOLOGICAL INVESTIGATIONS IN THE SAN JON DISTRICT, EASTERN NEW MEXICO—Frank H. H. Roberts, Jr.—*Smithsonian*, 30 p., 9 plates, 25c.

BIOLOGY FOR HIGH SCHOOLS — Sister M. Dafrose—*Kenedy*, 797 p., illus., tables, \$2.40; schools, \$1.92.

CHEMICAL ELEMENTS—I. Nechaev; Beatrice Kinkead, tr.—*Coward-McCann*, 223 p., \$2.50. A story, for young people, of the discovery of the chemical elements and of their discoverers. The author is a young Russian chemist, and the lining papers have portraits of the scientists mentioned in the book.

4000 YEARS OF TELEVISION — Richard W. Hubbell — *Putnam's* 256 p., illus., \$2.25. A history of television explaining inventions in their order of appearance, the use of television as an instrument of war, and the future use in industry.

GREEN FIRE—Peter W. Rainier—*Random House*, 296 p., \$2.75. Adventures of a mining engineer in the Andes.

GUERRILLA WARFARE—"Yank" Levy—*Penguin Books*, and *Infantry Journal*, 120 p., 25c.

HOW TO DRESS IN WARTIME — Winifred Raushenbush—*Coward-McCann*, 198 p., \$2.00.

THE MENTALLY ILL AND PUBLIC PROVISION FOR THEIR CARE IN ILLINOIS—Stuart K. Jaffary—*Univ. of Chicago Press*, 214 p., \$1.25.

METEOROLOGY FOR SHIP AND AIRCRAFT OPERATION — Peter E. Kraght — *Cornell Maritime Press*, 373 p., illus., \$3.00. A textbook for aviators, aerial navigators, and mariners. Recommended for students who intend aeronautical, or merchant marine careers.

THE ORIGIN OF THE CAROLINA BAYS — Douglas Johnson—*Columbia Univ. Press*, 341 p., \$4.50.

WISCONSIN BIRDS—N. R. Barger, Elton E. Bussewitz, Earl L. Loyster and others — *Wis. Society of Ornithology*, 32 p., 25c.

SECRETS OF VOICE PRODUCTION — Edwin Hopkins—*Edwin Hopkins*, 11 p., 75c.

WONDERS TO SEE — Lillian Hethershaw — *World Book Co.*, 284 p., illus., \$1.00. A science textbook, the first of a three-book series, for intermediate grades. Nice illustrations, some in color.

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 128.

• First Glances •

➤ AN EXCELLENT and comprehensive study of AFTEREFFECTS OF BRAIN INJURIES IN WAR is written by Kurt Goldstein (*Grune and Stratton*, \$4). The author, a neurologist, was for more than ten years head of a German hospital for soldiers with brain injuries and of an institution where after-effects of such wounds were studied. The rehabilitation and re-education of soldiers with wounds in the brain is one of the most serious problems of war medicine and psychology. Even such a slight scalp wound that the soldier can pick out the missile himself may have serious, or even fatal effects, if not given expert care. Dr. Goldstein's experience with over 2,000 patients is invaluable. Another case where Hitler's loss is America's gain.

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