

THE STUDENT AND THE NEW MATH: For Elementary School Parents and Others—Jerome T. Murray—Regnery, 184 p., diagrams, \$4.95. Simple progression from kindergarten to fourth grade.

THE TALL VOYAGERS: The Story of Barney Burnett—Claire Rankin—Ward Ritchie (Lane Bk. Co.), 224 p., photographs, \$6.95. Recalls the era of the great sailing vessels.

TARGET ARCTIC: Men in the Skies at the Top of the World—George Simmons—Chilton Bks., 420 p., illus., maps, \$7.50. The story of the aerial pioneers in the Arctic, based on recorded facts from 1897 to the present, includes chronologies, charts of drifting stations, bibliography and detailed index.

THEY TURNED TO STONE: Julian May—Holiday House, 40 p., illus. by Jean Zallinger, \$3.50. Shows children the way fossils were formed and where to look for them.

THE THIRD BOOK OF EXPERIMENTS: Leonard de Vries, transl. from Dutch by Eric G. Breeze—Macmillan, 104 p., illus. by Joost van de Woestijne, \$3.95. Entertaining experiments for young boys and girls, with scientific principles explained.

THIS IS ANTARCTICA: Joseph M. Duckert—Coward-McCann, 101 p., photographs, maps, \$3.95. An account of Antarctic exploration for young people, from early expeditions to life at McMurdo Station, today's "boom town" in the Antarctic.

THE TISSUES OF THE BODY: W. E. LeGros Clark—Oxford Univ. Press, 5th ed., 423 p., illus., \$18.50. Updated text combines a record of elementary knowledge with short discussions of recent advances in certain aspects of tissue structure and function.

TRAFFIC CONTROL: Theory and Instrumentation—Thomas R. Horton, Ed., foreword by Henry A. Barnes—Plenum Press, 218 p., illus., \$12.50. Advanced thinking in traffic engineering and case studies

of large-scale integrated traffic control systems.

TRANSLATION OF THOMAS JAEGER'S PRINCIPLES OF RADIATION PROTECTION ENGINEERING: Lawrence Dresner—McGraw, 451 p., illus., \$15. A thorough introductory survey of the field and a discussion of the diverse contributions to the technology of radiation protection.

ULTRASONICS IN THE CHEMICAL INDUSTRY: Vladimir Andreevich Nosov, transl. from Russian by J. E. S. Bradley—Consultants, 164 p., diagrams, paper, \$25. Vol. 2 of Soviet Progress in Applied Ultrasonics, deals with instruments for monitoring and analysis in chemical technology.

UNDERSTANDING ANIMALS: Gerhard Gronefeld, transl. from German by Gwynne Vevers and Winwood Reade—Viking Press, 319 p., photographs by author, \$7.95. Unusually fine close-ups of animal life in national parks, zoos, laboratories and circus.

VOICES FROM THE SKY: Previews of the Coming Space Age—Arthur C. Clarke—Harper, 243 p., \$3.95. Stimulating reading, with subject matter ranging "beyond Centurus" to memoirs of a retired armchair astronaut.

VOICES IN THE CLASSROOM: Public Schools and Public Attitudes—Peter Schrag—Beacon Press, 202 p., \$5.95. A journalist's attempt to examine a variety of American schools and communities, each with its own social and regional characteristics.

WEEDS OF THE NORTHERN UNITED STATES AND CANADA: F. H. Montgomery—Warne, 226 p., line drawings, \$3.95. Botanical field guide with general key for identification.

YOUNG EAGLE: Berniece Freschet—Scribner, unpagged, illus. by James Alexander, \$3.25. Acquaints young readers with the habits of the Golden Eagle.

• Science News Letter, 88:300 November 6, 1965

INVENTION

Current U. S. Patents

► **ALUMINUM**, that peculiarly useful soft metal, has found one more application. It has been developed into what is claimed to be the first stretchable metal fabric.

Inventor Thomas E. Lohr of Detroit, Mich., received patent 3,213,168 for his process. He assigned rights to General Motors Corporation.

Mr. Lohr claims a way of making metallic material that breathes, stretches and wears.

In structure, the material resembles paper. In the process, liquid rubber is spread into a thin layer over a sheet of Teflon. The Teflon sheet is vibrated, and the rubber forms into small globules.

Short aluminum fibers are then sprayed into a random pattern over the closely spaced globules. When this is heated the rubber cures into elastic particles thus forming a fabric.

The one disadvantage of any metal material for use, such as in car seat covers, is that after it has been heated a bit by the sun it can scorch the seat of the driver's pants. General Motors has not yet decided to use the material for metal seat covers, but it is believed that the fabric will have utility elsewhere, such as in upholstery for office furniture.

Brussels Sprouts Stripper

A friction machine has been designed to strip a new heavy stalked variety of brussels sprouts known as "Jade." Since all blossoms of this new type mature at the same time, sprouts and stalk can be completely separated and immediately sped to the freezing plant, according to inventor Nathan Hagopian of Fresno, Calif. Mr. Hagopian assigned right to patent 3,212,506 to Commercial Manufacturing & Supply Co., Fresno, Calif.

Beer Keg Gauge

Long needed by tavern keepers has been a gauge to measure the amount of beer left in a keg. Such a device, which received patent 3,212,335 for inventor Joseph A. Guiffre of Falls Church, Va., consists of a gauge connected to the keg by several valves and rubber hoses. The device measures the quantity of beer by equalizing the pressure of the carbon dioxide that is used to force the beer from the keg.

Atmospheric Glow

A method of forming "persistent" luminous trails in the upper atmosphere, about 50 miles above the earth, received patent 3,212,441.

The invention will produce a trail of light visible both to the naked eye and through conventional optical instruments. Primary use of the atmospheric glow will be to measure air currents at high elevations. However, ground controls may also use the light to locate and trace space vehicles during day or night.

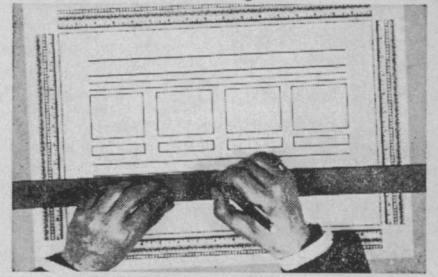
The new method creates far more brilliant light and a longer lasting glow than could be obtained with previous mechanisms, according to inventors Norman W. Rosenberg and Dan S. Golomb of Newton, Mass.

They assigned rights to the U.S. Government through the Secretary of the Air Force.

To produce the glow, a compound, trimethyl aluminum, is lofted by rocket into the atmosphere where it vaporizes. The vapor interacts with the oxygen in the air to produce a luminous trail along the trajectory.

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