

CLASSIFIED

Classified advertisements are accepted for the following classifications: Books, Business Opportunities, Camps, Colleges, Micro Ads, Personals, Positions Wanted, Services, Travel. All advertisements must be consonant with the character of Science News. Rates . . . single insertion 25¢ a word. Minimum charge is \$5.00. Count 2 extra words for Box and Numbers. Classified advertising is payable in advance. Closing date 3 weeks prior to publication (Saturday).

Employment opportunities are accepted at regular display rates, subject to agency commission. Minimum size 1 inch. Minimum charge \$18.90 per inch. Rate cards available upon request.

To speed up insertion, address classified advertising . . . Classified Ads. Science News, 1719 N Street, N.W. Washington, D.C. 20036

BOOKS

FASCINATING BIRD BOOK. This big "Birds of Australia" book has more than 70 full-color large photographs, including such unusual, exotic, beautiful birds in native habitat as the Lorikeet, Crimson Rosella, Boobook Owl, Lyrebird, Kookaburra, 65 others; with full descriptions, big map of Australia. 16" x 11", 44 pages. A permanent, colorful, fascinating addition to your library. Comes to you from Melbourne by Sea Mail. Send only \$2 to Bird Book, The Australian, SN, 230 West 41st Street, New York, N.Y. 10036.

ALL JUDAICA PAPERBACKS. Over 300 titles. We pay postage. Send for catalogue. Sifray Kyss, Dept. N, Box 186, Sharon, Massachusetts 02067.

CAMPS

HIRAM BLAKE CAMP—on Penobscot Bay, Cape Rasier (Harborside P.O. 04642), Maine. Cottage vacation resort, dining room and lodge, American Plan. Also housekeeping cottages; trailer and tent facilities. Nature trails, wildlife preserve, passenger boat trips, island lobster picnics, sailboats, small boats. Mid-June to mid-September. By advance reservation only. Write for literature SN to M. Venno, Director. Our 50th Season.

SUMMERLANE CAMP, in the tradition of Summerhill and The Gorky Colony, teaches children that love is more than need, that work and creativity are inseparable. Co-ed, ages 5-19, July 11-Sept. 2. Buckbrook Farm, Box 25-S, North Branch, N.Y.

COLLEGES

ALASKA SUMMER ADVENTURE—weekday study, weekend tours. B.A., M.Ed. Write Registrar, Alaska Methodist University, Anchorage 99504

MICRO ADS

FAIRCHILD SEQUENCE CAMERA \$75.00. Cost government \$650.00. Send 25¢ for our surplus optics-electronics 82 page catalog. Meshno, Nahant, Mass. 01908.

MANUAL OF MODEL ROCKETRY—An introduction to the exciting, new space-age hobby. Illustrated booklet describes rocket construction, engines, launching, etc. Send \$1.00 to Vanguard Engineering, P. O. Box 1885, Pittsburgh 30, Pa.

PERSONALS

WANTED—someone to take over my registered trademark—"Better Baby"—Langdon—#4, Bolivar—Lido Park.—Newport Beach—Calif. 92660.

TEA DEVOTEES naturally select Grace Rare Teas. Free brochure. Grace Tea Importer, Dept. SN, 79 Wall Street, NYC.

THE AUSTRALIAN, famous quality national newspaper, sent to you in U.S., lets you follow business, all other developments in go-ahead, strategic "down-under" continent. Excellent as reference and pulse-feeler for companies, libraries, investors, teachers, tourists . . . and you. Saturday Weekend Edition has literary and performing arts articles and criticism, big business financial section with frequent company profiles, reports. Weekend Sea Mail Edition, 1 year \$7.50, 6 months \$4. Daily except Sunday. Sea Mail, 3 months \$12. The Australian, SN, 230 West 41st Street, New York 10036.

INVENTION

Current U.S. Patents

► **THE "PHOTOGRAPHS"** beamed earthward from a future Mariner probe scanning Mars could be sent by way of semiconductor laser. The National Aeronautics and Space Administration is now investigating using such lasers instead of microwaves to transmit information from far-flung space missions.

One method of making a semiconductor laser that could accomplish this was among the 1,218 patents issued by the U.S. Patent Office.

The 12-hour transmission time needed for receiving the information from which the photographs taken by Mariner 4 were reconstructed could be cut to a few seconds using lasers. The information comes in what is known as "bits." Scientists hope to be able to transmit from a future Mariner probe at least one million or possibly several million bits per second, thus making it possible to reconstruct on earth, photographs of the Martian surface within minutes.

Rights to three patents covering lasers made with semiconductors were assigned to International Business Machines Corporation, New York. Patents 3,248,669, 670 and 671 were awarded variously to William P. Dumke of Chappaqua, N.Y., Rudolph R. Haering of Yorktown Heights, N.Y., Frederick H. Dill of Putnam Valley, N.Y., Gordon J. Lasher of Briarcliff Manor, N.Y., Marshall I. Nathan of Mount Kisco, N.Y., Richard F. Rutz of Gold Spring, N.Y., and Peter P. Sorokin of Ossining, N.Y.

In a semiconductor laser, the intense light beam is generated by passing an electric current through a semiconducting crystal. Laser light waves can be considered as radio waves of extremely high frequency capable of carrying thousands of times more information.

Although the semiconductor laser is not as high powered as a ruby or gas laser, it can be made to carry information merely by turning it on and off, as often as one billion times per second.

Permanent Memory for Computers

A scientist at RCA David Sarhoff Laboratories in Princeton, N.J., has come up with one answer to a problem that has long plagued computer experts—how to make a permanent record of the required information, yet take full advantage of the computer's high-speed capabilities.

Dr. Morton H. Lewin solved the problem by devising a method of mak-

ing the record-carrying card electrically conductive using silk-screen imprinting.

Dr. Lewin assigned rights to patent 3,248,711 to Radio Corporation of America.

Satellite Energy Converter

A device with future space application earned patent 3,248,577 for Siegfried R. Hoh of Belleville, N.J., who assigned rights to International Telephone and Telegraph Corporation, Nutley, N.J.

Mr. Hoh developed a "thermionic energy converter" that could be used on satellites to change the sun's heat into electricity.

His method provides increased efficiency and voltage. It can also be used to convert the heat from nuclear sources into electricity.

• Science News, 89-380 May 14, 1966

FREE

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5-14-6

TRAVEL

VISIT REMOTE MATINICUS ISLAND in Maine. For information on housekeeping cottages and rooms, write Mrs. Harold Bunker, Matinicus, Maine 04851.