

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

ALGAE, PROTOZOA, PLANKTON, and Foraminifera. Comprehensive list free. Write to LEW's, 2510 Van Ness Avenue, San Francisco, California 94109.

PAPERBACK CATALOGUE, 149 pages, 10,300 titles, subject indexed, 50¢. Mail Orders Solicited. Paperbacks, Hardbounds. We pay postage. New York Book 4W West 43rd Street, New York, N.Y. 10036.

DO YOUR OWN BOOKBINDING. Rebind that valued book or series of magazines. FREE catalogue of materials includes graphically illustrated instruction chart. Write: Dept. SN, Basic Crafts Co., 312 East 23rd Street, New York 10010

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.

BUSINESS OPPORTUNITIES

DISTRIBUTORSHIPS OPEN—Young company expanding into novelty business needs people to contact local stores. Salary plan—\$200 mo. plus comm. part time, or \$400 mo. plus comm. full time. Commissions can easily amount to as much as base salary. Send references and past history plus \$10 deposit on samples, materials, and folders to be sent to applicant. (\$10 deposit is not a price for applying—is refunded if applicant is not accepted.) Send applications in full. Incomplete applications will not be considered. Write, M & J Research Company, 1607 W. 24th, Box 2, Lawrence, Kansas.

CAMPS

HIGH/SCOPE—Capable youth 11-16. Arts and science programs. Unique opportunity for growth and development. 1305 Sherman Street, Ypsilanti, Michigan.

TRIPLE-R RANCH. Reading, Riding, Ranching. Boys 9-14. Limited enrollment. Family atmosphere. Booklet. T-R Ranch, Melvin S. Bradley, Steamboat Springs, Colorado.

CAREFREE. Your cottage in lakeshore pines. Delicious food, good beds, fireplaces, sailboats, sun-decks, sauna, lobster bakes, fishing, water skiing, canoe trips, tennis. Children and pets, yes. AAA. Write Chute Homestead, Naples 2, Maine.

ADVENTURES in living, expression, pioneering, mathematics. Fun and learning in the Green Mountains. 50 coeds. 6-13. TRUMBULL HILL, Shaftsbury, Vermont.

MICRO ADS

SURPLUS OPTICS-ELECTRONICS catalog. 72 pages 25¢. Meshna, Nahant, Mass. 01908.

TEST WATER HARDNESS. Operate water softeners economically. Useful science project. Materials, instructions, \$1.00. Aqualab, 362, Caldwell, New Jersey.

NEW CONVENIENT CORDLESS 35mm slide projector. Precision lens . . . easy focus. 2"x2" slides show 18"x28". Uses 3 flashlight batteries (not included). Guaranteed. \$7.95 ppd. Kenworthy House, 608 Catherine, Ann Arbor, Mich. 48108

INVENTION

Current U.S. Patents

An inborn error of metabolism that causes a severe form of mental retardation can be treated if it is detected soon after birth

► **THE SIMPLE BLOOD** test that is administered to newborn babies in the United States to prevent a severe form of mental retardation called phenylketonuria, or PKU, was granted a patent by the U.S. Patent Office.

Dr. Robert Guthrie of the State University of New York at Buffalo assigned rights to patent 3,245,882 to the Government through the Secretary of Health, Education and Welfare. The Guthrie test is now used in more than 2,600 hospitals.

Twenty-five states already have mandatory laws for PKU testing and seven other states recommend making the test on newborn infants while still in the hospital. The Guthrie test is aimed at early detection of the inherited metabolic disease that can result in brain damage unless spotted soon after birth.

PKU is believed to affect one out of every 10,000 babies born in the United States, or about 400 each year.

An estimated one million dollars of Government funds are being spent this year by the Children's Bureau of HEW to detect this inborn error of metabolism. The money goes not only to the screening programs but also to provide

necessary treatment services for infants found to have PKU.

These babies cannot absorb an amino acid called phenylalanine, and therefore must be denied such high protein foods as milk, meat and eggs. Without prompt treatment, large amounts of phenylalanine in the blood prevent the brain from developing normally.

Dr. Guthrie developed a method of visually detecting the presence of phenylalanine in the blood using a bacterial microorganism and a growth inhibitor that is ineffective when phenylalanine is present.

Infrared Cancer Detection

A new process for diagnosing such conditions as cancer or blood clots by charting the body's infrared temperature pattern earned patent 3,245,402 for Dr. R. Bowling Barnes of Barnes Engineering Company, Stamford, Conn., to which rights were assigned.

Normal tissues emit infrared radiation, and diseased or injured tissues are hotter than healthy ones. An instrument called a thermograph is a special kind of camera that can be used to chart such infrared messages by giving a pictorial record of body temperature.

Thermography is much like taking a temperature with a thermometer, except that the thermograph takes thousands of temperatures with a device that never comes in contact with the body.

Thermography permits "easy, quick and painless checking" for diagnosing such problems as cancerous cells and vascular stoppages, Dr. Barnes stated. Prechilling the skin until it is too cold to register photographically, then warming it up gradually improves the accuracy of the technique.

Other Interesting Patents

An astronomical observatory with a rotating dome was granted patent 3,245,178. William T. Clark of Jackson, Miss., assigned rights for the telescope housing, designed for relatively inexpensive installations, to Clark-Burt Roofing Company, Inc., Jackson.

A method of halting the growth of microorganisms in airplane fuel tanks by irradiating the fuel with ultraviolet light and the lamp unit that provides the ultraviolet radiation earned patent 3,246,144. Robert T. Beall of Dunwoody, Calif., and Niels H. Nielsen of Austell, Ga., assigned rights to Lockheed Aircraft Corporation, Burbank, Calif.

• Science News, 89-326 April 30, 1966

PERSONALS

\$1,000 POETRY CONTEST. Open to all poets. Send name and address with 10¢ for brochure of rules and prizes: The Promethean Lamp, Dept. SN, 2174 34th Street, Sacramento, California.

HARPSICORDS, CLAVICHORDS—Excellent modern German instruments by Sperrhake. Beautiful cabinetry, moderate prices. Robert S. Taylor, 8710 Garfield Street, Bethesda, Maryland 20034.

AFRICAN CARVINGS, TRIBAL MASKS, Drums, Masai Warriors, Carved Animals: Free Brochure, Verkaufen Imports, Box 137a, LeMars, Iowa 51031

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.

TRAVEL

WINDHAM HILL FARM—West Townshend, Vermont. Quiet country inn. Good food. Folder.

WOLFEBORO—The Oldest Summer Resort in America. On beautiful Lake Winnepesaukee. For FREE illustrated, informative brochure write Chamber of Commerce, Wolfboro 9, N.H.

NO MOTORIZED COWBOYING here; our beautiful hills are much too wild and rugged. Horses, cattle, deer, eagles, open fires, superb food, a relaxed atmosphere. Adjoining National Forest for miles. Richardson Hereford Ranch, Crawford, Nebraska 69339. Telephone 2W2.