

More than just a telescope . . .  
More than just a microscope

**Emoskop:  
a complete  
vestpocket  
optical  
system.**

ONLY  
**\$12.95**  
With Case



We went to Wetzlar, Germany (world capital of fine optics) to find such perfection at such a price. Remove the EMOSKOP from its fitted leather case and it is a 30-power microscope. A twist of the wrist converts it to a 2.5-power telescope (ideal for theater, field and sky). Another twist and you have a choice of magnifying glasses: 5-, 10-, or 15-powers! ■ The perfect vestpocket companion for exacting professionals and scientists. Indispensable for students, serious collectors, and all who wish to observe anything more closely and clearly. ■ A most discreet opera glass. ■ If you make a fetish of quality, the EMOSKOP will do you proud. Five coated lenses, fully achromatic, absolutely flat field. ■ As exclusive distributors for Seibert Optical, Haverhill's guarantees your satisfaction without qualification.

----- **INSTANT ORDER BLANK** -----

Mail to: **HAVERHILL'S**  
526 Washington St., San Francisco, Calif. 94111

Send me \_\_\_\_\_ Emoskop Optical System(s) @ \$12.95\*

I enclose check or M.O. plus \$1.00 for post. and ins.

Bill Diners';  Bill Amer. Expr. Acct. #

\*(California residents add 4% sales tax)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

SNL 0205

**Haverhill's**

Searching the World to bring you the Finest

**Super Jet  
SOLID FUEL  
BLOWTORCH**

OVER 2000° F.



A Jet Age Creation

**NO PREHEATING — STARTS AT ONCE.** You can solder, silver solder, braze, anneal or harden, form glass with this amazing new torch. Non-explosive! **FAST, CLEAN and SAFE.** Each tablet gives high heat for ten minutes, can be extinguished & relighted. Lifetime guarantee. Super Jet and 12 tablets \$1.99 (2-hour supply) with directions . . . Extra tube of 12 tablets 35¢ plus 10¢ mailing.

**THE BIRK MFG. CO.**  
Niantic, Connecticut 06357

Post Paid  
No C.O.D.  
please

**900 ELEMENT FACTS AT  
YOUR FINGERTIPS  
COMPLETELY UPDATED 1965**

The Elemental Slyd-Rul tells you, at a glance, symbol, weight, density, number, valences, color, melting and boiling point in °C for all 103 elements. An ideal educational aid for science, physics and chemistry students.

\$1 postpaid. Student rate: 12 or more, 75¢ ea. Money-back guarantee. Sorry, No C.O.D.'s

**THE SLYD-RUL CO.** 1040 West Broadway  
Woodmere, New York

**WHY DON'T YOU WRITE?**

EARN EXTRA MONEY IN SPARETIME writing short stories, articles on homemaking, travel, hobbies, local, club and church activities. Under the guidance of professional writer-editors, you learn by writing at home through the fascinating NIA Copy Desk Method. **FREE "Writing Aptitude Test"** tell whether you have qualities to become a successful writer. Write **TODAY**. No obligation. No salesman. 41st Yr. Lic. by N.Y. State, Acc'd't Member NHSC.

**NIA** WRITERS INSTITUTE DIVISION  
NEWSPAPER INSTITUTE OF AMERICA  
Suite 5236-B, Two Park Avenue, N.Y., N.Y. 10016

INVENTION

# Current U.S. Patents

First patent for a combination oral contraceptive was granted to a product containing both progestational and estrogenic hormones that has been on the market more than a year.

➤ ONE OF THE "PILLS" used by many thousands of women in the United States for planning the size and timing of their families has been granted a patent.

Patent 3,230,142 is the first to be awarded for a combination oral contraceptive, containing both progestational and estrogenic hormones. Known as "Provest," this pill has been on the market for more than a year.

Although the compound is intended primarily for human use, it may also be effective in controlling conception in other mammals, as well as birds. The combination is known chemically as 6-alpha-methyl-17-alpha hydroxyprogesterone 17-acetate and ethinyl estradiol.

George B. Spero of Kalamazoo, Mich., assigned patent rights to The Upjohn Company, Kalamazoo, which markets the drug. Whether or not birth control pills cause harmful side effects remains a subject of controversy.

## Foam Shield for Reentry

A plastic foam that is applied in space to form a shield for reentry into the earth's atmosphere, especially useful for a man but also applicable for instruments from a

satellite, satellites themselves or rocket boosters, has been devised by John Henry Quillinan of Ambler, Pa.

The heat shield would be applied in the substantially zero gravity environment of space. In the case of emergency reentry for a man, the foam would be applied around his spacesuit.

Such a foam shield would protect not only against the heat of reentry but could also absorb some of the shock from the impact of landing, either on land or water.

Mr. Quillinan assigned rights to patent 3,229,936 to General Electric Company. The plastic material would be stored unfoamed, then changed into a foamed plastic as desired for protection from reentry heat.

The foaming plastic, a form of urethane, has successfully undergone tests in earth-bound simulated space chambers, Mr. Quillinan said.

## Other Interesting Patents

The "father" of the inertial guidance systems now widely used in rockets, airplanes, ships and submarines, Dr. C. Stark Draper, head of the department of aeronautics and astronautics at Massachusetts Institute of Technology, Cambridge, Mass., was awarded patent 3,229,533, with Ernest B. Dane Jr. of Belmont, Mass., for their improved gyroscopic system. They stated the system is more easily produced, less expensive and more reliable than previous instruments. They assigned rights to Massachusetts Institute of Technology.

For this method of producing an electron beam of large current and small diameter, which is also stable and self-focusing, Dr. Willard H. Bennett of North Carolina State of the University of North Carolina, Raleigh, earned patent 3,230,419. The invention may be used by the Government without royalty payments.

Three scientists have invented a method for mapping the density distributions in gases at extremely low pressures. Drs. Stanley R. Meilozarek, Chevy Chase, Md., David C. Schubert, Silver Spring, Md., and Ladislaus L. Marton, Washington, D.C., assigned rights to patent 3,230,366 to the Government through the Secretary of the Navy.

A magnetic apparatus for confining the extremely hot plasma for the fusion reactions by which the energy of the oceans' supply of hydrogen fuel may one day be harnessed has been patented. The inventors, Drs. Harold P. Furth of Berkeley, Calif., and Marshall N. Rosenbluth of San Diego, Calif., assigned rights to patent 3,230,145 to the Government through the U.S. Atomic Energy Commission.

• Science News Letter, 89:94 February 5, 1966

## SEE MIRACLE OF BIRTH

\$4.98 POST PAID WITH  
SIX QUAIL EGGS



(\$3.25 Without Eggs.)  
You get the new clear plastic dome CHICK-BATOR with 6 Bobwhite Quail Eggs (available year-round) and Egg Hatcher's Guide Book. Complete — nothing else to buy. Send check or Money Order today

G.Q.F. MFG. CO., DEPT. CL, BOX 152, SAVANNAH, GA.

**PUMP 6 GALLONS per MINUTE  
with your Electric Drill!**

ALL YOU NEED  
IS A 1/4"  
DRILL!

Quick, easy liquid transfer for auto, industry, marine, home and farm. Change engine oil, gear box oil. Self-priming. Complete with 4 sizes of suction hose and all accessories.

**MEREDITH DRILL PUMP**  
44 Moulton St., Cleveland, Mo.  
(Missouri) 64734

If you have  
a drill, you  
have a pump.  
\$14.95  
ppd.

## MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists. 25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

SNL, 1719 N St., N.W., Washington, D.C. 20036

**BOOKS ON ALGAE AND PROTOZOA. COMPRE-**  
hensive lists. Lew's, 2510 Van Ness Ave., San Francisco, Calif. 94109.

**BINDERS FOR SNL—BUFF-COLORED BUCK-**  
ram. Snap-in metal strips hold 52 copies. \$4.00 pp. Send order with remittance to Science News Letter, 1719 N Street, N.W., Washington, D.C. 20036.

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