

PROTECT YOUR CHECKS AGAINST FRAUD
NEW PERSONAL AUTOMATIC CHECKWRITER

\$9.95
Postpaid



Prints indelibly, perforates amount of check . . .
Complete with supplies and carrying case.

Now you can have low cost absolute check protection. This check-writer does the same job as office type machines which cost many times more. A necessity for any one who has a check account. Protect your personal account as well as your business account. Ideal for home use. Precision construction, weighs but 10 ounces, can be carried in pocket or purse.

★ ★ THE SUM \$ 9 DOLS & 95 CTS ★ ★
Imprints Any Amount

John Surrey, Ltd., 11 West 32nd St., Dept. SN-76, New York, 1, N. Y.

Unusual Objects of Science

75c each ★ 3 for \$1.50
Complete Collection - \$9.50

We will send you, postpaid, any unit of THINGS of science listed below. Each unit has, in addition to science objects, its own leaflet of description with many experiments suggested. Museum-style legend cards are provided with many units for displaying exhibits.

- | | |
|---|--|
| <input type="checkbox"/> Papermaking #201 | <input type="checkbox"/> Crystallization #223 |
| <input type="checkbox"/> Lens #206 | <input type="checkbox"/> Optical Illusion #224 |
| <input type="checkbox"/> Steel Wire #207 | <input type="checkbox"/> Cryptography #225 |
| <input type="checkbox"/> Computation #209 | <input type="checkbox"/> Measurement #226 |
| <input type="checkbox"/> Tin #211 | <input type="checkbox"/> Static Electricity #227 |
| <input type="checkbox"/> Spectral Color #216 | <input type="checkbox"/> Non-Woven Fabrics #228 |
| <input type="checkbox"/> Specialized Paper #217 | <input type="checkbox"/> Astronomy #229 |
| <input type="checkbox"/> Motor #218 | <input type="checkbox"/> Butterflies #230 |
| <input type="checkbox"/> 1959 Seeds #220 | <input type="checkbox"/> Bacteriology #231 |
| <input type="checkbox"/> Corrosion Inhibitor #221 | <input type="checkbox"/> Sextant #234 |
| <input type="checkbox"/> Atomic Energy #222 | <input type="checkbox"/> Complete Collection |

SPECIAL PRIORITY OFFER

Members of THINGS of science receive a surprise blue package each month, actual samples of the new and unusual . . . scientific objects that can be handled and experimented with, that can be felt, smelled and sometimes even tasted. Although membership is limited to 25,000, we have a few vacancies open which you are eligible to fill. If you would like to receive THINGS of science every month for one year (12 units in all), enclose \$5 with this order and receive also a gift unit. If the present vacancies should be filled before your order is received, we will mail you the gift and enter your subscription as soon as a vacancy occurs.

ORDER TODAY

To: SCIENCE SERVICE, 1719 N Street N.W., Washington 6, D. C.

I enclose \$5 for one year's membership (12 monthly units) plus the gift unit.

For the enclosed \$.....please send me postpaid, the units of THINGS of science checked above. Complete collection—\$9.50.

Name.....

Street.....

City, Zone, State.....

930

TECHNOLOGY

Welding Process Uses No Solder

See Front Cover

A COPPER WELDING PROCESS provides better protection against overload, high temperature and dirt for transportation motors by eliminating the use of solder.

The process, using tungsten inert gas (TIG), was announced by General Electric Company for its industrial locomotive motors and generators.

Seen on the cover of this week's SCIENCE NEWS LETTER, a welder applies a tungsten electrode to produce an arc that is shielded by a stream of inert gas. Since the tungsten is not appreciably absorbed by the weld, the joint will be all copper.

Science News Letter, July 2, 1960

Do You Know

United States farmers now plant 120,000,000 acres of land annually to offset *pest losses*.

Adding B-complex vitamins and iron to *white bread flour* is required by law in 27 states.

New Zealanders eat more *butter* per person than any other people in the world—averaging 43.3 pounds per capita yearly; the United States ranks 13th with 8.6 pounds.

Questions

GENERAL SCIENCE—What proportion of the money spent for research is provided by the Government? p. 6.

METALLURGY—Where have deposits of columbium ore recently been discovered? p. 7.

PUBLIC HEALTH—How much of the total world-wide fallout is still in the stratosphere and how long may we expect it to remain there? p. 2.

Photographs: Cover, General Electric; p. 3, Hughes Tool Company; p. 7, Cornell Aeronautical Laboratory; pp. 10 and 11, U. S. Army; p. 16, W. R. Grace and Co.

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 6, D. C.

BINDERS FOR SALE—BUFF-COLORED BUCKRAM. Snap-in metal strips hold 52 copies. \$4.00 pp. Send orders with remittance to Science News Letter, 1719 N Street, N.W., Washington 6, D. C.

GOVERNMENT SURPLUS RADIOS, RECEIVERS, transmitters, gadgets, parabolic reflectors, infra-red snooper scopes, aircraft camera lenses. Amazing catalog 10¢. John Meshna, Malden 48, Mass.

THE STRUCTURE OF THE ATOM—23 PAGES with many diagrams. A completely new system of atomic structure comprising structural center, but no nucleus. Price 25 cents ppd. C. F. Kraftt, 218 Columbia Road, Annandale, Virginia.