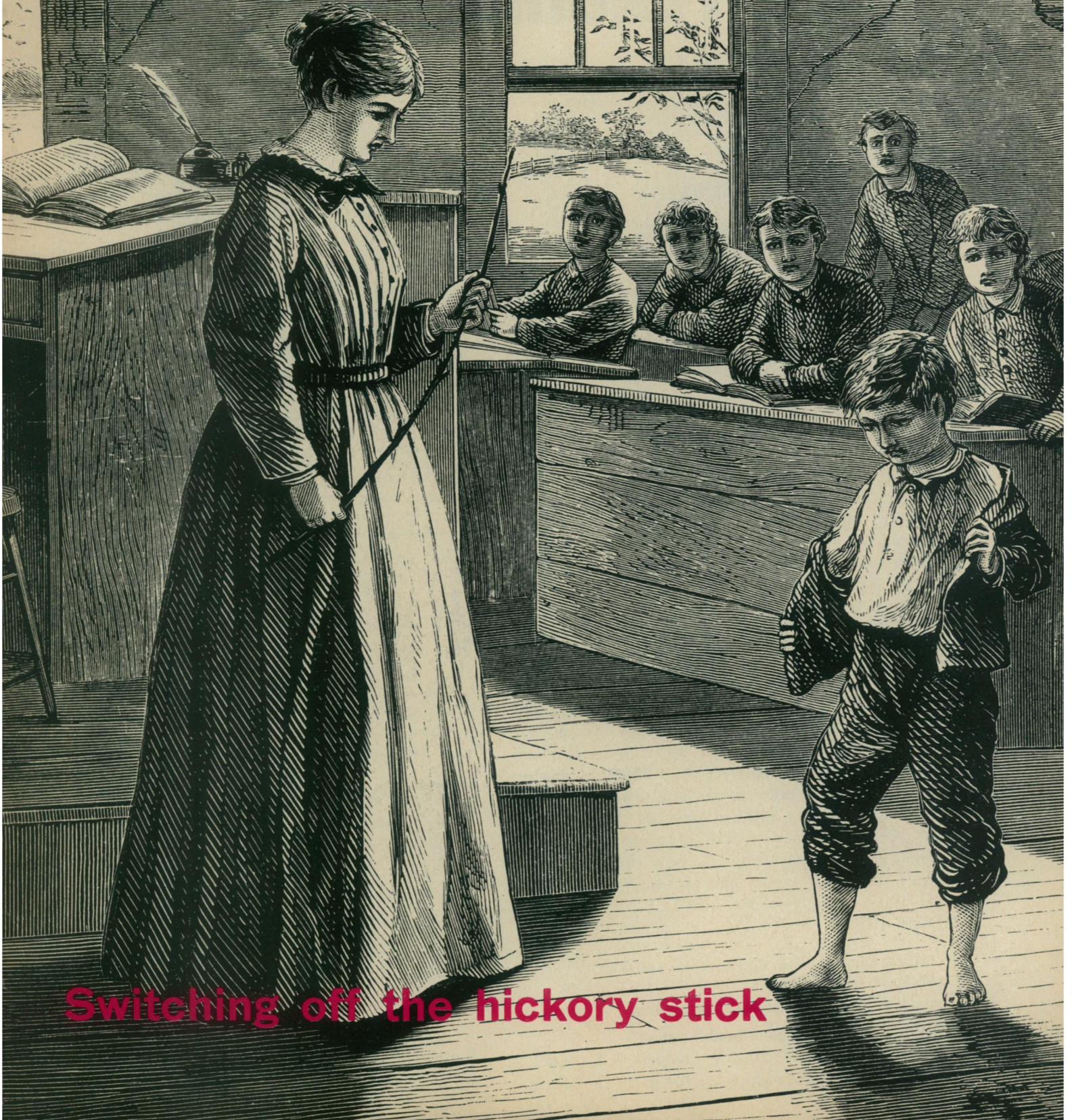


# science news

Nov. 18, 1973  
vol. 102, no. 21, 321-336

Early human-like skull  
When time flows backward  
A molten lunar core



Switching off the hickory stick

NASA wanted a foolproof flashlight switch going to the Moon on every manned mission

# THE FIVE YEAR FLASHLIGHT

**Guaranteed Storage Capacity For 5 Years Or Your Money Back.**

**10 Times the Staying Power of An Ordinary Flashlight!**

**BRILLIANT LIGHT WHEN YOU NEED IT... POSITIVE... POWERFUL... DEPENDABLE**

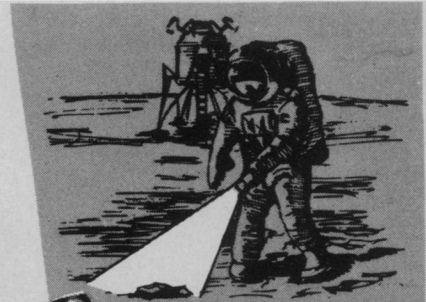
The most critical thing about our flashlight—or any flashlight—is that it works *when you need it!* But how long has your old flashlight been in a drawer, or in the glove compartment of your car? Can you be certain it will work on the next emergency? The truth is that up to now, flashlights rarely burn out from use . . . instead the power drain on latent batteries weakens them so that in a relatively short time they become useless. **BUT NOW A STARTLING BREAK-THROUGH IN PORTABLE, EMERGENCY LIGHTING . . .** The Completely new, Command Module 5-Yr. Flashlight.

From the company that made flashlights for every manned Moon mission . . . Command Module Lighting . . . the flashlight with proved storage capacity for its power cell for **AT LEAST FIVE YEARS** combined with **10 TIMES THE STAYING POWER** of any ordinary flashlight. Yours in a handsome Command Module case with no external switches to corrode or break. (NASA wanted a fool proof switch for the flashlight going to the Moon . . . now you can have it in your light for your car or home.) **POWER LIGHTING WHEN YOU NEED IT OR YOUR MONEY BACK.**

**ORDER NOW. 5-Year Flashlight for only \$6.99. BE SURE, BE SAFE, ORDER TWO FOR JUST \$12.99.**

**JAY NORRIS CORP.**

25 W. Merrick Rd., Dept. JB-74, Freeport, N.Y. 11520  
Serving Satisfied Customers for over 25 Years



**THE FLASHLIGHT WITH THE FOOL PROOF SWITCH DESIGNED FOR NASA THAT WENT TO THE MOON.**



- With Switch Designed Specially for NASA
- 5-Year Security for Your Home . . . Your Car!
- Ideal for Sportsmen!

**ABSOLUTE 5-YEAR GUARANTEE**  
Every Command Module Flashlight carries this Absolute 5-Year Guarantee: Carry your flashlight with you, keep it at home. It must work even if you haven't touched it for 5 years or your money back. So don't be another minute without the one safety element every car, every family needs.

**BUY WITH CONFIDENCE  
MONEY BACK GUARANTEE**

**Jay Norris Corp., 25 W. Merrick Rd., Dept. JB-74, Freeport, N.Y. 11520**

Please rush me \_\_\_\_\_ 5-Year Flashlight(s) @ \$6.99 plus 75c shipping and handling.

**SAVE!** Order TWO for only \$12.99 plus \$1.25 shipping and handling.

**SAVE MORE!** Order SIX for only \$36.99 plus \$3.00 shipping and handling.

**EVEN GREATER SAVINGS!** Order TWELVE @ \$69.99 plus \$5.00 shipping and handling.

Enclosed is  check or  money order for \$\_\_\_\_\_ (N.Y. residents add sales tax.)

PRINT NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

© Jay Norris Corp. 1972

# Show all your slides brilliantly magnified 9 times... **AUTOMATICALLY!**

Screen is perfect size  
for convenient viewing  
by family and friends.



**\$9<sup>99</sup>**  
ONLY

Think of it as a slide projector. But without all the fuss and time-consuming preliminaries that slide projectors and screens usually require. And without their high cost.

This cleverly designed viewer is a cinch to use. It shows your favorite slides instantly. And changes them automatically, with just the touch of a lever. Best of all, your slides come magically alive, beautifully magnified a full nine times. Bright and brilliant, distortion-free, with remarkable depth and color definition, thanks to the fine precision optical system.

#### IDEAL FOR GROUP VIEWING

The screen is 7½ square inches, great for quick-and-easy group viewing. The viewer loads conveniently up front . . . takes as many as 36 slides at a time . . . any 2x2, 35mm. slides in cardboard, plastic, metal or glass mounts. Slide-changing is jamproof, foolproof. For slide removal, merely push a button.

Operates on two standard "C" batteries (not incl.). Attractively styled, rugged long-life housing features handy snap-apart construction for easy access to lamp and batteries. (No screws to loosen or lose.)

Only \$9.99 plus \$1.00 shipping and handling.

**JAY NORRIS** CORP.

25 W. Merrick Rd., Dept. JB-73, Freeport, N.Y. 11520

BUY WITH CONFIDENCE—30-DAY MONEY-BACK GUARANTEE

JAY NORRIS CORP., 25 W. Merrick Rd., Dept. JB-73, Freeport, N.Y. 11520

Please rush \_\_\_\_\_ Automatic Slide Viewer(s) @ \$9.99 plus \$1.00 each for shipping and handling, under your 30-day money-back guarantee.

**Save! Order 2 for only \$18.99 plus \$1.50 postage and handling.**

Check or  money order enclosed for total:

\$ \_\_\_\_\_

(N.Y. residents add sales tax.)

Name (print) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

© Jay Norris Corp., 1972

# STUMPED...

for a gift to young people  
on your Christmas list?

**GIVE A MEMBERSHIP  
in THINGS of science**

Your gift of THINGS of science will bring  
*a year of pleasure*  
*a year of activity and involvement*  
*a year of exciting scientific experiments*  
to boys and girls 10 to 16

There is no more rewarding or welcome gift for a science-minded boy or girl than a membership in THINGS of science. It brings the young scientist constantly changing experiments, exciting learning experiences, new adventures in science every month for an entire year.

Each month he receives a surprise package containing materials and detailed, easy-to-follow instructions for conducting numerous experiments and demonstrations that stimulate interest, activity and involvement in science. These kits are fascinating home learning centers.

THINGS of science ranges the wide fields of science to introduce boys and girls to biology, chemistry, physics, mathematics and many other disciplines—and explains basic scientific laws and principles. Subjects recently explored by THINGS of science include

Simple Machines  
Probability  
Recycling  
Optical Illusions  
Chromatography  
Mirrors

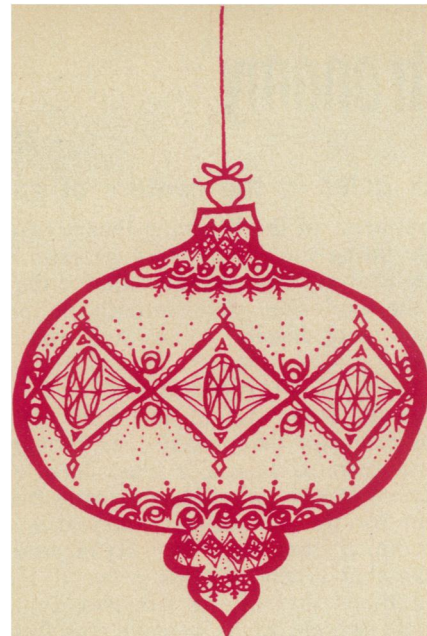
Hydroponics  
Liquid Crystals  
Pinhole Photography  
Topology  
Weather  
Electrostatics

## SPECIAL CHRISTMAS SAVINGS!

Your first gift membership in THINGS of science is \$9.50. Each additional one-year membership is only \$8.50—and you may include your own renewal or new membership at this money-saving rate.

## SEND YOUR GIFT ORDERS NOW!

Use the convenient postage-paid reply card opposite this message. Or, if someone else has already used it, fill in the order form at right and mail to:



**THINGS of science Membership Department**  
231 W. Center Street, Marion, Ohio 43302

Please enter the following THINGS of science Christmas gift memberships:

### ONE MEMBERSHIP FOR \$9.50

Name \_\_\_\_\_  
(Please Print)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### Each Additional Membership, \$8.50 (Save \$1.00 each)

Name \_\_\_\_\_  
(Please Print)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Name \_\_\_\_\_  
(Please Print)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Name \_\_\_\_\_  
(Please Print)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### MY NAME, ADDRESS AS DONOR IS:

Name \_\_\_\_\_  
(Please Print)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

(If more gifts are desired, use separate sheet)

- Send gift announcement card to recipients.  
 Please enter or  extend my THINGS of science membership for one year at the lowest rate to which my total membership order entitles me.  
 I enclose \$ \_\_\_\_\_  Please bill me.

Additional for gifts going outside the United States: Canada and Mexico, \$3.00; all other, \$4.00. (CT-4)

LIVE IN THE WORLD OF TOMORROW...TODAY!

**A BETTER LIFE STARTS HERE**

**BUILD A "PRO" WEATHER STATION**

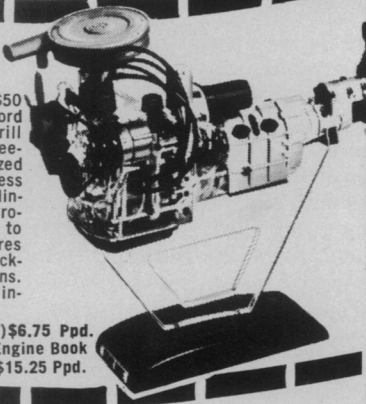


Meteorology kit can give you the know-how to check your predictions against official forecasts! Has remote reading anemometer w/ windvane. Indoor indicator board flashes neon, shows wind speed, direction. Safety power cord holds current to less than 1 ma. Also: sensitive air-tank barometer w/2-ft. indicator column; sling psychrometer to measure rel. humidity; rain gauge that measures to 1/100th inch; 100 ft. lead-in wire; cloud chart; forecasting manual.

**Stock No. 71,022Q ..... \$15.95 Ppd.**

**Amazing New WANKEL ENGINE KIT!**

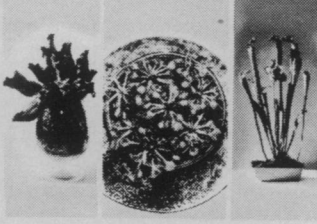
General Motors recently paid \$50 million for rights to the Wankel. Ford just signed up! Now you can thrill to the fun of building your own see-through, 1/8 scale working motorized model. This revolutionary pistonless type engine replaces piston, cylinder and crank assemblies with rotating discs (sections removed to form firing chambers). Kit features flashing plugs, rubber fan belt, stick-shift, on-off switch, instructions. Requires two 1.5v batteries (not included).



**Stock No. 71,424Q (4 1/2 x 5 x 9") \$6.75 Ppd.**  
**519-Page Wankel Engine Book**  
**Stock No. 9,439Q ..... \$15.25 Ppd.**

**GROW FANTASTIC "KILLER" PLANTS**

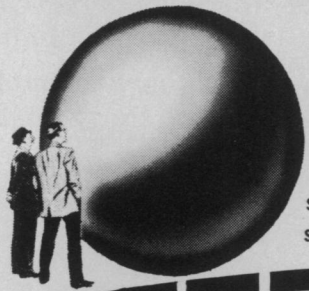
World's most unusual & interesting plants! Each carnivorous plant lures & traps insect victims in own unique way. Glistening red **Sundew** attracts prey w/odor, holds w/glue-like substance. Purple **Pitcher Plant** collects moisture, lures insects w/coloring, sweetness; traps & drowns them. Tapered hollow tube of **Huntsman's Horn** snares quarry in bottom. Incl. 1 each, ready to plant, planting mixture, culture directions.



**Stock No. '60,922Q ..... \$4.50 Ppd.**  
**VENUS FLY TRAP 3-Pack (#60859Q)**  
**\$2.00 Ppd.**

(And our FREE CATALOG is packed with exciting and unusual ecological & physical science items—plus 4,000 finds for fun, study or profit . . . for every member of the family.)

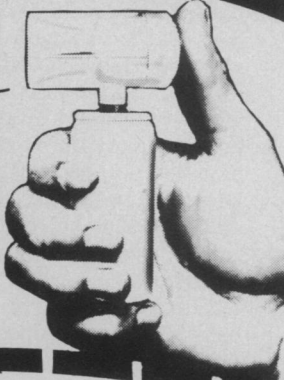
**GIANT WEATHER BALLOONS—8' OR 16' DIAMETER**



"Balls of fun" for kids, traffic stoppers for stores, terrific for amateur meteorologists. Create a neighborhood sensation. Great backyard fun. An exciting beach attraction. Amateur meteorologists can use these balloons to measure cloud heights, wind speed and temperature. Made of heavy-duty neoprene. Inflate with vacuum cleaner or auto air hose; or locally available helium for high rise.

**Stock No. 60,568Q (8' size) \$2.00 Ppd.**  
**Stock No. 60,632Q (16' size) \$7.00 Ppd.**

**POWER HORN BLASTS A MILE**



Frighten prowlers, muggers, mashers, vicious dogs with 118 decibels. Just press, and this Freon-powered pocket-size metal horn can be heard up to a mile away to signal for help or just for fun. It's great for boating (it floats) as a ship to shore signal, hiking, hunting, rooting for your team. It can be heard over traffic and construction noises to sound a fire drill, lunch break or emergency. Weighs only 3 ounces but contains up to a hundred mile-piercing blasts.

**Stock No. 41,423Q ..... \$3.25 Ppd.**  
**GIANT 9 OUNCE AIR HORN**  
**Stock No. 71,630Q ..... \$8.20 Ppd.**

**SEE THE STARS, MOON, PLANETS CLOSE UP!**



**3" ASTRONOMICAL REFLECTING TELESCOPE**

60 To 180 Power. Famous Mt. Palomar Type. See the rings of Saturn, the fascinating planet Mars, Seas and Craters of the Moon, Star Clusters in detail. New improved, aluminized and overcoated 3" diameter f/10 primary mirror, ventilated cell. Equatorial mount with locks on both axes. Equipped with 60x finder telescope, hardwood tripod. Included FREE: VALUABLE "STAR CHART"; 272 page "HOW TO USE YOUR TELESCOPE"

**Stock No. 85,050Q . . . \$32.95 Ppd.** **6" REFLECTOR TELESCOPE WITH DELUXE 3" REFLECTOR TELESCOPE ELECTRIC CLOCK DRIVE**  
**Stock No. 80,162Q . . . \$59.50 Ppd.** **Stock No. 85,086Q \$239.50 F.O.B.**  
**4 1/4" REFLECTOR TELESCOPE (45X TO 270X) Stock No. 85,105Q \$96.50 F.O.B.**



**MAIL COUPON FOR GIANT FREE CATALOG!**

**164 PAGES**  
**1000's of BARGAINS**

Completely new 1973 edition. New items, categories, illustrations. 164 new, easy-to-read pages, crammed with hundreds of ecological and physical sciences, general instructives. Low cost models, kits, projects for both demonstration and student participation. Bargains galore—fun, study, profit. Write for free Catalog "Q" to:

**EDMUND SCIENTIFIC CO.**  
**300 EDSCORP BUILDING, BARRINGTON, N. J. 08007**

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_  
 STATE \_\_\_\_\_ ZIP \_\_\_\_\_



**ORDER TODAY! COMPLETE AND MAIL**

**EDMUND SCIENTIFIC COMPANY**  
 300 Edscorp Building, Barrington, N.J. 08007

How Many	Stock No.	Description	Price Each	Total

PLEASE SEND  GIANT FREE CATALOG " Q " TOTAL \$ \_\_\_\_\_



I enclose  check  
 money order for \$ \_\_\_\_\_  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_