SCIENCE NEWS LETTER



WEEKLY SUMMARY OF CURRENT SCIENCE

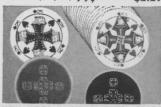


Man-Made Spiderweb See Page 270

A SCIENCE SERVICE PUBLICATION



BOWLING, HORSESHOES, CROQUET anyone? 37-piece Table Top Game Set contains all you need to play all 3 sports—on your table top! Accurately scaled. Colorful break-resistant plastic. Croquet has 9 wickets, 2 posts, 4 mallets, 4 balls. Horseshoe has 4 shoes, 2 posts. Bowling has 10 pins, 2 balls. Instructions incl. Set (37 pcs.).79 3 sets..\$2.29



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...they're round! Imagine how heads will
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PLAYING CARDS! What's more, you'll have
no more dog-eared cards! They're 3" in
diameter—easy to deal—easy to hold.
Plastic-finished for long use. Specify
Red or Black deck. Each\$1.79
2 decks (1 of each color)\$3.50



PERSONALIZED GIANT DESK CALENDAR



ELECTRIC HOT POT boils 4 cups of water in minutes—for instant coffee, tea, cocoa. Heats soup, canned foods, baby bottles, etc. Electric, break-resistant! Easy-pour spout, stay-cool base & handle. Perfect to use right at table—or office desk! Polished aluminum, with electric cord. Great for home, school, travel. 2 for.......\$5.50 Each.......\$2.95



KEEP YOUR FEET WARM during cold winter months with Heat-A-Foot. These comfortable cushions keep your feet warm no matter how cold it gets! Just scissor the dotted pattern to fit your foot and insert in your shoe. They give glowing warmth on body contact! When ordering, specify for men, women, or children. 3 pair....\$2.79 Pair....\$1.00



INDIAN HEAD PENNY JEWELRY Genuine, rare U. S. Indian Head pennies OVER 50 YEARS OLD, fashioned into handsome golden-toned jewelry! Polished to a shining finish. Value should increase with the years. Assorted dates. Gift boxed. Tax incl. Cuff Links, Pr...\$3.30 Tie Bar or Key Chain, Each......\$2.20 2 Sets..\$1.98 Complete Set..\$6.60



MESS-LESS CHALK HOLDER works automatically—like a ballpoint pen! Remove cap, push button and presto—chalk ejects or retracts! Looks like a fountain pen. Holds any standard blackboard chalk. Ends messy chalk dust on hands and clothing. To be teacher's pet without really trying, present her with this! 6 for......\$5.00 Each......\$1.00



INSTANT SPARE — ONLY \$1.88! Now you can fix flats fast—without changing tires—without jacking up your car! Just attach new Instant Spare to the valve of any tire (tube or tubeless). Instant sealant is forced into the tire—it PLUGS PUNCTURE & INFLATES TIRE! Drive away immediately unstained and unexerted. Can \$1.88



HAVE SNOW-FREE CAR WINDOWS even after a blizzard! Auto Cap completely covers top and all windows! Fastens to fender and is held firmly in place by 4 elastic shock cords. Removes in a flash, leaves windows clear. Heavy polyethylene...won't freeze. State for Passenger Car, Station Wagon or Compact Car. 2 for\$11.50



PERSONALIZED "GAY 90'S" TRAY Colorful "Gay Nineties" design makes this 9" x 14" serving tray most attractive. Hand-painted with first and last names of any host and hostess you state. Easygrip raised edges so glasses won't slip off. Heavy gauge, easy-to-clean metal. Colorfast. State 2 first names and 1 last. 2 for\$3.79 Each\$1.98



GIANT GARAGE DOOR GREETING "shouts out" your warm "Season's Greetings" to the world. Novel garage door decoration is 5 ft. x 6 ft. Highlighted with brightly flickering candles and poinsettia blooms. In brilliant colors on strong paperboard. Comes in reusable storage tube. At season's end, tuck it away for use next year. Each....\$2.98





RELIEVE EYEGLASS PRESSURE immediately with soft, springy, foam rubber Eyeglass Rests. They relieve "pressure spots", ease heavy lenses, keep glasses from sliding forward. Give more comfort than ever before! Self-adhesive. Apply to nose piece or temples of eyeglass frames. One size fits all.

Pack 3 pr.35 3 packs (9 pr.)....\$1



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while you're away! No need for delicate
plants to die while you're out of town.
Water Maids feed exact, controlled
moisture to plants automatically...for
up to 8 weeks! Just place one end in
soil—the other in jar of water. Add plant
food if desired. Spun glass & plastic;
won't rot or mildew. Set of 4.....\$1.00



4 COLOR AUTOMATIC PENCIL... A flip of your finger changes this chrome-plated pencil from red to blue to green to black lead. Smooth-writing. One unit, single barrel construction. Comes complete with eraser and extra lead. Each \$1.00 6 for \$5.00 24 refill leads (same ass't'd. colors) 49¢



Tie Tac, ea.\$1.10 Set, ea.\$2.98



"ROCK 'EM—ROLL 'EM" IS FUN! It's a mountain top, a tunnel, a racing car, a seesaw, a TV chair. A child's imagination has no limits! Supplies a perfect outlet for mischief-making energy. Excellent training for balance and agility. 35 inches long. Constructed of bright, playtested board with smooth edges.

Each \$2.98



BIRTHDAY CAKE EXPRESS! Chug-chug!
Toot-toot! First stop...party time! This
miniature six-piece train is loaded with
"glowing" good wishes from engine to
caboose. Makes any cake a "birthday
special"! Stake designed bases insert
easily into cake. Made of brightly
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eight replaceable candles. Each..\$1.00

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WITH OUR BRAINIAC KIT K18, you can build over 200 small electric brain machines and toys which "think," compute, reason and display intelligent behavior. Each one works on a single flashlight battery . . . is FUN to make, FUN to use and play with, and TEACHES you something new about electrical computing and reasoning circuits. All connections with nuts and bolts-no soldering required. The Brainiac K18 kit is the result of 12 years' design and development work with miniature mechanical brains including: the original 1955 kit, Tyniacs (1956), Relay Moe (automatic relay machine playing tit-tat-toe-pictured in Life Magazine, March 19, 1956), Simon (miniature automatic digital computer with 129 relays—see "Simple Simon" by E. C. Berkeley in Scientific American, November 1, 1950), Squee (electronic robot squirrel-see "Light Sensitive Electronic Beast" by E. C. Berkeley in Radio Electronics, December 1951), etc.

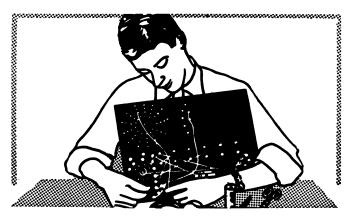
WHAT CAN YOU MAKE WITH BRAINIAC KIT K18? Over 200 machines including-Logic Machines: Syllogism Prover, Intelligence Test, Boolean Algebra Circuits, Douglas MacDonald's Will Analyzer, A Simple Kalin-Burkhart

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- Complete descriptions of 201 experiments and machines in book of 256 pp.
- Over 170 circuit diagrams including 13 exact wiring templates.
- Manual "Brainiacs—Small Electric Brain Machines —Introduction and Explanation" by Edmund C. Berkeley.
- "Introduction to Boolean Algebra for Circuits and Switching" by Edmund C. Berkeley.
- "How to Go from Brainiacs to Automatic Computers" by Edmund C. Berkeley.
- List of references to computer literature including "Minds and Machines" by W. Sluckin, published by Penguin Books (Baltimore), 1954, 233 pages, and other references.

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Logical Truth Calculator, Diagnosing Motor Car Trouble, etc. GAME-PLAYING MACHINES: Tit-Tat-Toe, Nim, Wheeled Bandit, Black Match, Sundorra 21, etc. COMPUTERS: To add, subtract, multiply or divide using decimal or binary numbers, Forty-Year Calendar, Prime Number Indicator, Money-Changing Machine, etc. CRYPTOGRAPHIC MACHINES: Coders, Decoders, Lock with 15,000,000 Combinations, etc. Puzzle-SOLVING MACHINES: The Missionaries and the Cannibals, Age-Guessing Machine, Submarine Rescue Chamber, Daisy Petal Machine, Fox-Hen-Corn & Hired Man, Uranium Space Ship and the Space Pirates, The Three Monkeys Who Spurned Evil, General Alarm at the Fortress of Dreadeerie. etc. QUIZ MACHINE: How to Tell an Aardvark from an Armadillo, The Waxing and the Waning Moon, Polar Air Routes, history, geography, trigonometry, grammar, statistics, calculus, etc.

WHO IS EDMUND C. BERKELEY? Author of The Computer Revolution, Doubleday, 1962, 249 pp.; Author of Giant Brains or Machines That Think, Wiley, 1949, 270 pp. (15,000 copies sold); Author of Computers: Their Operation and Applications, Reinhold, 1956, 366 pp.; Author of Symbolic Logic and Intelligent Machines, Reinhold, 1959, 203 pp.; Editor & Publisher of the magazine, Computers and Automation; maker and developer of small robots; Fellow of the Society of Actuaries; Secretary (1947-53) of the Association for Computing Machinery; Designer of all the Tyniacs and Brainiacs.

BRAINIAC KIT K18 . . . the kit with limitless possibilities -backed by an organization of 12 years standing in the computer field-\$18.95. (For shipment west of Mississippi, add 80ϕ ; outside U. S., add \$1.80.)

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