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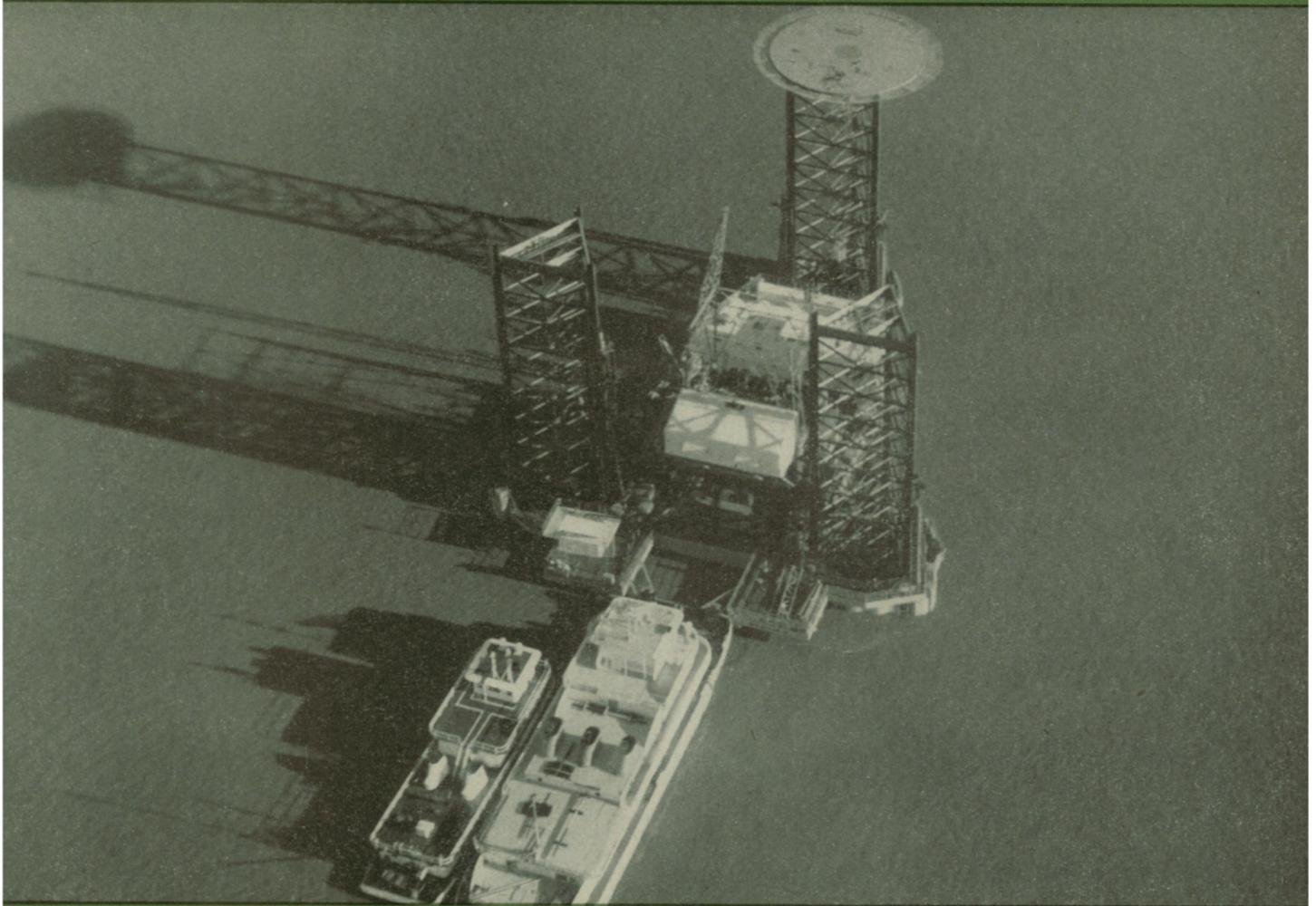
April 19, 1958

VOL. 73 NO. 16 PAGES 241-256

SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Roving Rig

See Page 245

A SCIENCE SERVICE PUBLICATION

$$\frac{1.008^{3.1} \times \sqrt[3]{63} \times 4000}{6 \times \sqrt[5]{260000} \times 42^{-1.82}} = 0.2495$$

A 66-inch Slide-rule for your pocket

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 108 E. 16th St., New York 3, N. Y.

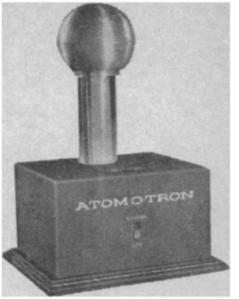
Please send me one GENIAC® Calculator on your guarantee that if I return it within 7 days, you will refund the money in full. I have enclosed \$19.95 in check or money order (plus sales tax where necessary.)

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- MINIATURE ATOM SMASHER
- PRODUCES 75,000 VOLTS
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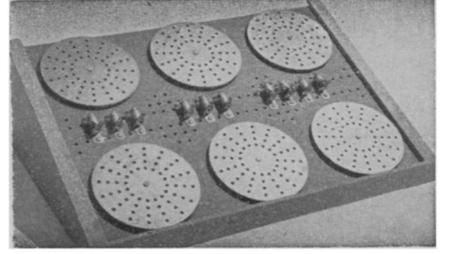


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Be careful before you answer. GENIAC®, the first electrical brain construction kit, is equipped to play tic-tac-toe, cipher and encipher codes, convert from binary to decimal, reason in syllogisms, as well as add, subtract, multiply and divide. Specific problems in a variety of fields—actuarial, policy claim settlement, physics, etc., can be set up and solved with the components. Connections are solderless and are completely explained with templates in the manual. This covers 33 circuits and shows how new ones can be designed.

You will find building and using GENIACS a wonderful experience; one kit user wrote us: "this kit has opened up a new world of thinking to me." You actually see how computing, problem solving, and game play (Tic-tac-toe, nim, etc.) can be analyzed with Boolean Algebra and the algebraic solutions transformed directly into current diagrams. You create from over 400 specially designed and manufactured components a machine that solves problems faster than you can express them.

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\$19.95 (East of Mississippi)

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AMAZING BLOCK & TACKLE



- PORTABLE . . . weighs only 13 ozs., fits in pocket!
- ONE HAND OPERATION . . .
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Amazing Work Saver for

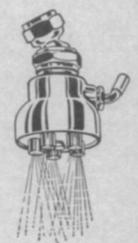
- Hunters • Handymen
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Here's an unusual tool, even for us! It's the tiny Midget Babe Block and Tackle. It weighs only 13 oz., yet is so powerful it lifts up to 1000 lbs. easily! Because of its great strength, small size, complete portability—this block and tackle has many uses. In your car for emergencies, for home, factory, farm . . . for loading heavy articles. For sportsmen: loading deer, boats, etc. For anyone who has to do heavy lifting! Fine engineered throughout, best grade aluminum, steel axles, pre-lubricated for life. Hoists have two lifting slings, at top and bottom, with heavy welded steel rings. Slings can be doubled for extra strength. Complete with 70 ft. nylon cord, 5 to 1 ratio—1000 lb. test. Carrying bag, instructions. . . . **\$9.95**

ALSO AVAILABLE—Tiny Babe—Lifts up to 2000 lbs.! With 100 ft. nylon cord, 5-1 ratio—2000 lb. test—15 oz. wgt. Twice as powerful as \$9.95 model—only **\$12.95** ppd.

1 yr. guarantee on both models.

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MULTI-STREAM SHOWER HEAD

Just a flip of the lever and you can adjust the Multi-Stream Head from an invigorating, fine needle-sharp spray to a heavy, dousing spray of water . . . and anything in between! Don't mess or fuss with hot and cold faucets with the chance of scalding or freezing—set the water temperature desired just once and use the Multi-Stream Head for all other adjustments! Made of heavy chrome plate on brass. The hand adjustable swivel ball head permits spray in any direction! Five adjustable cylinder outlets easily slide back and forth, controlled by a single, handy lever. A \$9.95 value . . . OUR PRICE \$4.95 ppd. **GUARANTEED.**

Prices Drastically Slashed on Famous SHOP-KING Portable JIG SAW

Snaps on to any 1/4", 5/16" or 3/8" electric drill in seconds. Does work of Jig, Key-hole, Coping, Rip, Crosscut, Band and Hacksaw. Cuts intricate patterns, circles—no matter how large—in plywood, plastics, metal—even cuts in 2" x 4's. Starts inside holes without boring. Self-lubricating bearings. Built-in automatic air blower. Easy to handle because of its right angle drive, strong safety yoke and worm drive clamp make it vibration proof. Extra large shoeplate assures accurate and square cuts.



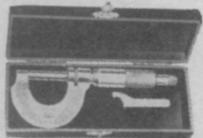
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Our Price **\$7.95**
plus 50¢ pp. & hdlg.

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(A \$1.40 Value)
ONE YEAR FACTORY GUARANTEE

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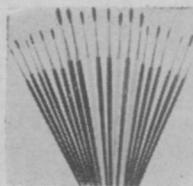
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Chrome plated, adjustable, equipped with ratchet stop and lock nut. Adjustable for zero. Decimal equivalents of fractional sizes die sunk on frame. Recessed frame to allow readings in tight spots. Precision made for accurate readings, fully polished. In velvet lined case.

0-1", 1/1,000" Readings **\$5.95** ppd.
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Close-Out—
Only 5¢ each

Precision crafted in West Germany. Perfect for artists, touching up around house, cleaning electrical and optical instruments and guns. Sizes range from fine #1 to full #5. Select camel hair firmly set in metal grip to give years of use. Worth many

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CLOSE-OUT SPECIAL!

SAVE \$4.55 on Famous

ARCO-SAW

Reg. \$12.50 OUR PRICE



with Precision Graduated Depth—Bevel—**\$7.95**
Rip Gages and 5" Arco Safecut Blade.

plus 50¢ pp. & hdlg.

Easily attached in less than a minute to any 1/4" electric drill, this sensational gear-driven saw thru 2x4's in one cut . . . 8 times faster than a handsaw! The 5" Sawblade will smoothly and rapidly whiz thru lumber, plywood, wallboard, etc. Comes with precision graduated DEPTH & LEVEL GAUGES for cuts to 13 1/2", bevels from 0 to 45 degrees; ADJUSTABLE RIP GAUGE; ADJUSTABLE VISUAL GUIDE; sturdy, easily adjusted SAFETY YOKE; WORM DRIVE CLAMP; RIGHT ANGLE GEAR DRIVE; ONE-PIECE GEAR BOX with steel gears and self-lubricating LIFETIME BEARINGS! Arco-saw uses 30% less power; blade easily removed and resharpened with ordinary handfile! Ideal for rip, crosscut, mitre, dado and bevel cutting! Limited quantities at this LOW, LOW price.

Gov't Surplus WEBBED

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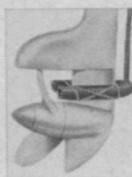
Originally made for U.S. Air Force. Never used. Test proven for towing trucks, cars, etc. 15 ft. long with extra heavy duty spring snap cable 3/4" wide. Nylon reinforced cable is 1/4" thick and 1 3/4" wide at ends. Useful at home or keep in car for emergencies.



\$1.95
plus 35¢ pp. & hdlg.

Vacu Jet AUTOMATIC BOAT BAILER \$3.95 ppd.

Draws out 3 to 5 gallons of water a minute. Sucks out the last drop. Will not scratch or injure motor. Simple installation. No tools required. Fits any size motor. Hooks on to the motor in a jiffy, and when motor is started suction through the top draws water from the boat. It cleans as it bails and works like a genuine vacuum cleaner. Eliminates old fashioned hand method of bailing water. Fits easy in a tackle box. Weighs 10 ounces. Made of the finest plastic and vinyl tubing. No parts to wear or corrode. Fits any outboard motor except 3 h.p.



Complete Power Tool Accessory Set



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PIECES

Designed for use in all 1/4" capacity Electric Drills and Motor Chuck. A complete power tool accessory set that can handle almost any job of grinding, sawing, cutting-off, polishing, buffing, reaming, sanding, drilling, cleaning, etching, etc. KIT CONTAINS:—Wire Wheel, Mounted Grinding Wheels, Rotary File, Abrasive Cartridge Rolls, Circular Saw Blade, Felt Bob and Wheels, Honing Stones, Jewellers Rouge, Buffing Wheels, Midset Steel Cutters, Bristle Brushes, Abrasive Sheets and sufficient Arbors to accommodate all the unmounted items. Over \$15 value . . . only **\$4.98** ppd.



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These powerful permanently magnetized magnets—each the size of a jelly bean—lifts over 1/2 pound! Sewn into pot holders, towels or shower curtains—makes them securely cling to steel. Holds items on dashboard, metal files, demonstration or bulletin boards. Recover items from hard-to-reach places. Pulls through glass, wood, paper, leather, plastic—anything but iron. All 10 rustproof magnets—**\$1.00** ppd.

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DUPONT NYLON CORDS

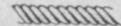
Light, strong, durable, quick-drying. Will not rot or mildew. Ideal for indoor or outdoor use. Camping, boating, hunting, clothes line and venetian blinds. Perfect for tent ropes, light anchors, deer cord, trout lines, crabbing, etc. Unused.

OUTWEARS ORDINARY ROPE 10 TO 1 NYLON BRAIDED CORD

1/16" dia., 100 lb. test, per ft.13¢
1/8" dia., 375 lb. test, per ft.20¢
5/16" dia., 550 lb. test, per foot23¢
in 50, 100, 200, 300, 400, 500 ft. & over lengths

NYLON BRAIDED LINE

1/4" dia., 2000 lb. test, olive drab, per ft.3¢
in 30, 40 & 50 ft. lengths only



NYLON ROPE

5/16" dia., 1900 lb. test, per foot12¢
3/8" dia., 2700 lb. test, per foot17¢
7/16" dia., 3800 lb. test, per foot20¢
All in any length up to 1200 feet.

NYLON FISH LINE

Proven best by experienced fishermen. Heat stretched. Will not kink, twist or unravel. 23 lb. test, 300 ft. Reg. \$1 per spool**NOW 50¢**

NYLON WEB STRAPS

with sturdy steel buckle

Perfect for passenger safety belts, luggage straps, car towlines, car carrying straps, boat trailer straps, etc. Tie heavy equipment and machinery with greater ease and safety . . . at far less cost. Just the thing for the garage or workshop.
1" wide, 3000 lb. test, per foot10¢
1 3/4" wide, 6000 lb. test, per foot16¢
In 5, 6, 8, 10, 12 foot lengths

New! CALIBRATED LEVEL

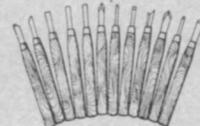
No Guesswork! **\$2** ppd.



No bother with inexact "bubble-type" levels! Devil Level is calibrated for hairline accuracy. Needle points to exact degrees, inches anything is off level or plumb. Measures vert., horiz., all angles. Level pictures, shelves, tv antennas, etc. One side measures degrees off level, other, pitch or inch rise per ft. Fits in pocket. For hobbyists, handymen, housewives.

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Set of 12 CARVING KNIVES \$2.00 ppd.



The sharpest, keenest ground, surgical steel blades we have ever seen—sharp enough to split a human hair in two! 12 different shapes and edges can do everything in wood carving, making, linoleum cutting, sculpting and whittling imaginable. Each blade has a 4 1/2" long hardwood handle for easy gripping . . . heavy duty blade is firmly attached by means of a brass ferrule to insure long, continued rugged use. Each surgical steel blade precision hand ground to easily and quickly notch and cut any shape you wish. A sensational all-purpose set, well worth \$5.95.

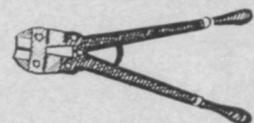
Lifetime Grit HANDY SANDER

Tungsten Carbide Grit Brazed on Steel



New Lifetime abrasive miracle tungsten carbide grits brazed on steel gives a diamond-like cutting hardness. Perfectly finishes wood, plaster, plastic or composition materials. Ideal for dry wall joints, all types of wallboard. Never needs replacing—always stays sharp! Sands twice as fast as sandpaper—does not tear like sandpaper! Easily cleaned. Complete kit includes easy-hold birch sanding block, one coarse grit shoe **\$2.00** and one fine grit shoe. Lifetime guaranteed.

plus 20¢ pp. & hdlg.



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Easy working, positive action cutters to do the job intended. Made with black cast alloy steel handles; drop forged exchangeable cutters. Compound leverage makes a difficult job easy.

12" size\$3.95 plus 25¢ pp. & hdlg.
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