SCIENCE NEWS LETTER





THE WEEKLY SUMMARY OF CURRENT SCIENCE



Gardener's Aid

See Page 214

A SCIENCE SERVICE PUBLICATION

JUST IMPORTED FROM ITALY!

WORLD'S FIRST PERSONAL SIZE DESK ADDING MACHINE!

Amazing Little Machine With Spinning Wheels and Trip Mechanism Adds Up To 9,999,999... Automatically!

Not a flat, vest pocket adder—not a gadget—no bewildering instructions to follow. Here for the first time is a real desk-type adding machine that works on the same scientific principle as electric office computing machines...but without electricity! It adds up bank statements, sales slips, inventories, expense accounts, super-market tapes, budgets, any adding jobs you have...within seconds of even \$200.00 office adding machines! And then, this amazing machine clears itself with just a flick of your finger on the clearing bar. Yes! Instantly all the wheels inside spin back to normal—7 zeros flash into the easy-to-read answer windows—and it is ready for the next time saving, money saving adding job!

END MENTAL ADDING-FOREVER

No more adding figures in your head scribbling numbers on paper making mistakes that cost you time... and cost you money! Simply press the numbers down on this wonder-working little machine. The automatic trip wheel mechanism never makes a mistake. The total appears in big, clear, easy to read numbers in the answer windows—IN-STANTLY and AUTOMATICALLY!

STANTLY and AUTOMATICALLY!

It keeps you within your budget . . . keeps you from overspending . . protects you from the mistakes companies — even banks . . often make . . adds all the figures for your income tax . . . adds up stock dividends . . . checks expense accounts . . plus a thousand other adding chores . . and pays for itself a hundred times over in the money you save.

AN ITALIAN INVENTION

AN ITALIAN INVENTION

An eminent inventor in Italy discovered the secret of the fool-proof, non-electric, spinningsheel adding mechanism inside this machine. He had been trying for years to develop a real adding machine at a price for everyone. . even in war-poor Europe. NOT another flat pocket adder that requires you to read long instructions before you can begin to operate it. Instead . . he wanted a real, desk type adding machine . . that anyone could operate, even a child . that would be automatic . . fool proof . and, above all, within the pocket-book of everyone! He found the answer after studying the spinning wheels inside electric computing machine sheels . . instead of electricity! Just imagine! He invented an adding machine designed so that the gentlest touch makes the wheels inside turn! After one complete turn . . . the first

wheel automatically trips the next wheel . . . just like \$200.00 electric machines! Nothing to remember. Nothing to do but press down the numbers to be added. Everything else automatic! When the Italians . . . famous for smaller automobiles and smaller motorcycles . . . started manufacturing this revolutionary new smaller, non-electric adding machine, offices and individuals in Rome. Venice, Florence tried it. WHAT ACCLAIM IT MET WITH! Everywhere it added the longest columns of figures within seconds of the speed of electric machines. Giant companies gave it to secretaries . . . officers, salesmen. Efficiency of entire companies improved. Mistakes were cut down. And from individuals came even more glowing stories. Instantly adding became a pleasure instead of an aggravating chore. Households became better managed . . budgets stuck to . . bills checked . . mountains of figures added in no time . . . mistakes a thing of the past! And when this remarkable adding machine was imported to this country, the acclaim was just as great! For here at last was what every home . . . every office . . every store has been waiting for. The perfect, small, easy to use, automatic, desk model adding machine . . in beautiful silver tone and blue finish, with big, easy to read numbers . . and at a price so incredibly low that not a family or store or office can afford to be without it!

FREE TRIAL OFFER

How would you like to try this amazing new gleaming metal adding machine in your home, your office or your store entirely without risking a penny? We want you to actually test it against automatic, electric adding machines. Compare it for speed, ease of use and accuracy. You must agree that it is almost as fast... and just as easy to use... you must agree that it will save you endless time, trouble, mistakes and money every week... or it won't cost you a penny.

Just push the numbers down. See how the most gentle pressure of your hand turns the wheels inside. See how it adds up to 9,999,999 automatically. And see how just a flick of the clearing bar on the side makes the numbers inside the answer window all whirl back to seven zeros.

Put this amazing adding machine on your desk. See how instead of being too busy to add... or in too much of a hurry to be bothered with a complicated pocket adder... from now on you will check every calculation... check all your bills, statements, estimates, inven

tories, budgets, reports . . . each in seconds . . . and never make costly

seconds ... and never make costly mistakes again! If you are in business, see how this precision adding machine will save you its unbelievable low price a hundred times over. Give one to every secretary, every clerk, every person who ever adds. See how it cuts out trips to your book-keeper, saves time, improves the efficiency of your entire company. You must be convinced that ADDI-PRESTO is one of the most valuable and useful inventions you ever used or it won't cost you a penny.

Supply Still Very Limited Mail Free Trial Coupon TODAY

Yes, it is impossible for you to appreciate the beauty, speed and efficiency of ADDIPRESTO until you actually see it and use it. Let us send it to you for one week's completely free trial.

one week's completely free trial.

The price of ADDIPRESTO is only \$14.95. Remember, it is a real adding machine with spinning wheels and automatic mechanism. . the same type as \$200.00 office computing machines. But ADDIPRESTO works from the pressure of your hand without electricity! It will save you its remarkable low cost many times over. Because you will USE it. . . over and over. . day after day. Don't confuse it with flat, hard to use, complicated pocket adders.

However, the supply of genuine ADDI-PRESTO machines is strictly limited. The factory in Europe cannot meet the demand. You must mail the free trial coupon below at once. ADDIPRESTO is not yet sold in stores. Act now and get yours by mail.

ADDIPRESTO is shipped with protective plastic cover and GUARANTEE CERTIFICATE.

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GUARANTEE

This original ADDIPRESTO is precision-made from the finest quality materials, and will give you a lifetime of accurate, effective performance. Unconditionally Guaranteed against defects in material or workmanship. in material or workmanship.

FOR THE FIRST TIME -Your Own Personal **Desk Model Automatic** Adding Machine!

Now you can keep ADDIPRESTO on your desk at home or office and never add anything in your head again. In SECONDS . . perform almost any adding chore. No more costly mistakes. ADDIPRESTO's spinning wheels and computer type mechanism do the 'figuring' automatically!

PROVEN IN USE

Don't confuse this desk-model real adding machine with flat pocket adders. ADDIPRESTO is used by offices, stores, institutions, for adding jobs that demand true speed and accuracy. Used by giant corporations. Saves time, saves mental work, saves money. A real adding machine.

MAIL THIS NO-RISK TRIAL COUPON

OLIVER GARFIELD CO., INC., Dept. SL 49-A 108 E. 16th St. New York 3, N. Y. Yes, I want to try ADDIPRESTO, the new Italian Office Type Adding Machine. I will use the machine for one week without risk to me. It must be everything you say it is or I may return it and you will refund my money at once, no questions asked, and I will have used the machine entirely free.

☐ I enclose \$14.25 (check or money order) as payment in full. This way I save over \$1.00 in postage and handling charges. Same guarantee . . . same 7-day FREE trial! ☐ You may bill me for \$14.95 (plus postage and handling) after my 7-day

NAME	

ADDRESS........ CITY..... ZONE.... STATE..

QUANTITY BUYERS SAVE! 2 Machines only \$13.95 each. 3 to 5 Machines only \$12.95 each.

AGENTS! SALESMEN!



THE BIGGEST MONEY-MAKER YOU HAVE **EVER KNOWN!**

ADDIPRESTO is the greatest goldmine you ever saw. Simply show this beautiful, gleaming metal adding machine with spinning wheels and automatic trip mechanism. the same type as \$200.00 electric computers. Then make this eye opening demonstration: add a 6-iNCH LONG COLUMN OF FIGURES in 30 SECONDS! After that there's no selling. . . no arguing. You can't keep people from buying! It's true. 8 out of 8 sales is nothing. Every home, every office, every store needs it. Send for yours today and get started to the biggest money you have ever known. There is no competition. There is no other machine like ADDIPRESTO.

MAIL COUPON NOW!

Just Imported:

THE FISH LURE GUARANTEED TO CATCH FISH!

OR IT COSTS YOU NOTHING!

Works in Lakes, Ponds, Streams, Salt Water. Saves You Time, Work, Money and Disappointment. Perfect for Amateurs, Experts, Trollers, Casters, Shore Fishermen. Catches All Kinds of Fresh Water Game and Pan Fish Plus Salt Water Fish!

WORKS WHERE OTHER LURES FAIL!

What It Will Do for You:

- CATCHES MORE FISH
- CATCHES ALMOST ALL KINDS OF FISH
- SAVES YOU MONEY ON OTHER PLUGS, BAIT AND **LURES**
- SAVES YOU WORK OF DIGGING WORMS, CATCH-ING MINNOWS, ETC.
- CATCHES THE FISH THAT WON'T BITE ON WORMS, BUGS, PLUGS, SPOONS, CANNED BAIT, FLIES, CUT **BAIT OR SPINNERS!**

FROM PARIS, FRANCE, COMES NEWS OF AN AMAZING fish-catching lure. The world's first truly 'live action' lure that's guaranteed to catch more fish . . . catch bigger fish . . . and catch fish when everything else fails . . or it costs you

bait! . . . saves you the more and bigger catches. endless expense of continually buying expensive plugs, spinners, flies and other fancy equipment designed to catch YOU in-stead of fish . . . lets you make your fishing trips

A Beautifully made lure more fun, more exciting that saves you hours of and lets you enjoy every work digging worms, catching minnows or other live dawn till dusk . . . with

A French Invention

The secret is a scientific 'live-action' tail that had never been patented before. Developed by a French sportsman who named it VIVIF, this wonder-working 'live-action' lure is the result of years of testing all kinds of lures on all kinds of fish...and watching the fish react to each lure under water. From these studies came VIVIF, the lure that works when everything else fails. VIVIF is now being used by over 350,000 fishermen in 25 countries who rave over VIVIF.

From all over come reports of record making catches . . . of fish biting where all other lures failed . . of the sureness, the simplicity . . . the effectiveness of this miracle lure. Think what this means to you. Now at last you can catch every kind of fresh water game fish as well as salt water fish . . . and never spend a penny for fancy plugs, spinners or flies again. You can do away with digging for worms, catching bugs, frogs or minnows. You can cast, troll, shore fish . . . all with equal success. You can go out after . . . and come back with . . . bass, pike, pickerel, perch, bream, trout, walleyes, sal-mon, red tuna, striped bass, bluefish, weakfish, and do it time after time without any previous experience.



PHOTO PROOF!

Fish just can't resist the amazing VIVIF with its patented "Live-Action" tail! VIVIF caught this 40 lb. salmon for Mr. G. F. Coleman and 1st prize in a fishing contest.

Marvel of Design

Not just another stiff plastic or wood lure that 'looks good' but doesn't work. VIVIF is made of life-like latex and is the world's most life-like lure in the water . . . works better than live bait! Color combinations have been scientifically selected by fish in actual tests. Acts and wiggles like a live minnow.

VIVIF IS IMPORTED SUPPLIES ARE STILL LIMITED

To get your VIVIF now. mail Free Trial Coupon at right. U.S. supplies are still very limited and are not yet sold in stores. Order now to be sure you'll have your VIVIF in time for your next fishing trip. Only if you act at once can we guarantee to fill your order immediately. Shipment of famous VIVIF is on its way from France. Don't delay. Mail Free Trial Coupon Today.

Each VIVIF is sent to you in a FREE clear-plastic container with Full Money Back Guarantee. **ച്ചി**ച്ചത്തെത്തെത്തെത്തെത്തെ



FREE TRIAL OFFER **MONEY BACK GUARANTEE!**

come home empty handed from your fishing trips. Avoid the costly mistake of using those "flashy" plastic and wood lures that 'look good' to you but fail to catch fish.

Try amazing VIVIF . . . the

French lure designed to attract and catch fish . . . with-

No longer do you have to prove its fantastic fish-catching powers.

See for yourself how VIVIF looks and acts in the water. See how easily it casts . . . how it moves through the water as realistically as any live minnow . . . even on a slackened line!

Put VIVIF to every test. If out risking a penny. you don't agree it is the All you do is mail the no- finest lure you've ever used risk free trial coupon below. . . . if it doesn't catch more When you receive your VIVIF, fish and bigger fish, you use it anywhere you like ... have used it entirely free. It use it as often as you wish to won't cost you a penny.

Over 350,000 Amazing VIVIF'S Now Catching Fish Throughout The World. Be The First In Your Area To Own One.

MAIL FREE TRIAL CO Harrison Tackle Company, Dept. 4 8-16 Kingsland Avenue, Harrison, N Please send VIVIF Lures checked VIVIF does not catch more fish, bi	SNL lew Jerse below for gger fish	y or FREE 1	TRIAL. If e fishing		
more fun you will refund my Quan. Size Weight Color Comb21/4" 1/6 oz. Green-Silver-Red21/4" 1/6 oz. Black & Gold21/4" 1/6 oz. Green-Gold-Red21/4" 1/6 oz. Red & White	Model V-1 @ V-2 @ V-3 @	Price \$ \$1.35 \$ \$1.35 \$ \$1.35 \$ \$1.35 \$ \$1.35	SAVE ALL 4 THIS SIZE FOR \$4.95		
	-		ALL 4 THIS SIZE FOR \$5.95		
5½" 2½ oz. Green & Yellow5½" 2½ oz. Red & White5½" 2½ oz. Blue & Silver	V-102 @ V-105 @	\$2.49 ∫ stpaid! I	THIS SIZE FOR \$6.95 save all		
C.O.D. Charges. (Money Back Guarantee on all VIVIFS) SEND C.O.D. I will pay postman price of VIVIFS plus C.O.D. postage. (Money Back Guarantee on all VIVIFS) NAME					
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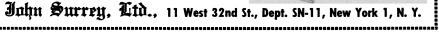
man who used VIVIF. The pike is 181/2 pounds. In England VIVIF holds a world's record. In 25 foreign lands VIVIF is catching fish for delighted fishermen. Already reports from fishermen in this country are coming in . . . reports saying VIVIF is the greatest lure they ever used. 350,000 fishermen can't be wrong. Test the magic powers of VIVIF yourself without risking a penny. VIVIF takes the luck out of fishing, lets you have more fun out of fishing . . . because you catch more fish.

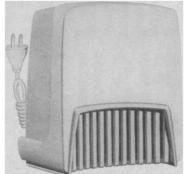
ELECTRONIC ROOM DEODORIZER

With the flick of a switch there's magic in the air. Electronic room deodorizer neutralizes and kills offensive odors. Makes any room air-Electronic room deodorizer neutralizes fresh with a delightful scent.

No bottles-no liquids-no spray-no wicks. Complete with deodorant block.

Additional Blocks 49¢ Each Pine, Lavender, Old Spice and Floral





Make over 150 Small **Computing and Reasoning** Machines with...

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EQUALS THE ORIGINAL GENIAC® electric brain construction kit (1955) PLUS many improvements and additions: over 600 parts —including 116 improved patented wipers so that all switches work well. Instead of cov-ering only 33 machines, BRAINAC gives full specifications for 151 computing, reasoning, arithmetical, logical, puzzle-solving and gameplaying machines . . . all 33 GENIACS (1955), 13 TYNIACS (1956), and 105 BRAINACS (1957-58), etc.

THIS IS BRAINIAC! With our Brainiac Kit K 17, you can build over 150 small electric brain machines and toys which "think," compute, machines and display which tinner, 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. Originated and produced exclusively by Berkeley Enterprises, Brainiac is the result of 8 years' design and development work with of 8 years' design and development work with miniature mechanical brains including: Geniac (see "Geniacs: Small Electric Brain Machines and How to Make Them" by Edmund C. Berkeley, 64 pp., published by Geniac Project, a partnership with Oliver Garfield discontinued September 1955), Tyniac (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 tal computer with 129 relays—see "Simple Simon" by E. C. Berkeley in Scientific American, November, 1950), Squee (electronic robot squirrel—see "Light Sensitive Electronic Beast" by E. C. Berkeley in Radio Electronics, Dec. 1951), etc.



WHAT CAN YOU MAKE WITH BRAINIAC KIT K17? Over 150 machines including — Locic MACHINES: Syllogism Prover, Intelligence Test, Boolean Algebra Circuits, Douglas Mac-Donald's Will Analyzer. A Simple Kalin-Burkhart Logical Truth Calculator, 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. CRYP-TOGRAPHIC MACHINES: Coders, Decoders, Lock with 15,000,000 Combinations, etc. Puz-ZLE-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 Ma-CHINES: History, geography, trigonometry, grammar, statistics, calculus, etc.

tics, calculus, etc.

WHO IS EDMUND C. BERKELEY?
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.; Editor & Publisher of the magazine, Computers and Automation; Maker and Developer of small robots; Fellow of the Society of Actuaries; Secretary (194753) of the Association for Computing Machinery; Designer of all the Tyniacs and Brainacs, more than half of the 33 Geniacs (1955); Designer of the patented Multiple Switch Disc and other features in the 1955 Geniac kit.

THIS COUPON

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MAIL THIS COUPON

Questions

ELECTRONICS-How long did it take radio waves to make the round trip to Venus? p. 211.

MEDICINE-What is the cause of galactosemia? p. 217.

PHYSICS-What is the maximum curve a pitcher can expect to give a baseball? p. 213.

Photographs: Cover, Cargill, Incorporated; p. 211, U. S. Army; p. 213, General Electric Company; p. 215, Columbia University; p. 218, National Institute of Neurological Diseases and Blindness; p. 224, Devonair Products.

Do You Know

Resistance to neutron absorption makes zirconium the ideal structural metal for nuclear reactor cores.

An aluminum submarine which will plumb ocean depths three miles below the surface and make extensive deep-sea exploration possible is being designed.

Vitamins, such as vitamin C and vitamin K, when taken in excess, may produce toxic symptoms.

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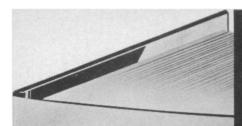
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WANTED

WANTED—EXPERIENCED JUNIOR-HIGH school science teacher to write text-workbooks in science for grades 7 and 8. Write McCornick-Mathers Publishing Co., P. O. Box 2212, Wichita 1, Kansas.



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