# SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE



Sky's Looking Glass

See Page 23

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. Yea! 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---

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—INSTANTLY and AUTOMATICALLY!

## AN ITALIAN INVENTION

AN ITALIAN INVENTION

An eminent inventor in Italy discovered the secret of the fool-proof, non-electric, spinningswheel 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 machines. He came upon a way to let a person's hand supply the 'power' to the wheels. in instead of electricity! Just imagine! He invented an adding machine designed so that the gentlest touch makes the wheels inside turn!

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 gave it to secretaries . . officers, salesmen. Efficiency of entire companies 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

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 mistakes again! If you are in business, see how this precision adding machine will sare 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, sares time, improves the efficiency of your entire company. You must be convinced that ADDI-PRESTO is one of the most aduable 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. <del>โลยเลยเลยเลยเลยเลยเลยเลยเลยเลโ</del>

GUARANTEE

This organizal 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.

## **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. St. 79-B 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 \$14.95 (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 FREE trial period.

CITY..... STATE..... 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. S 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 other machine like ADDIPRESTO.

MAIL COUPON NOW!

# Special Tool Bargains-Save Up to 50%

Comparable With Radios Listing At \$75.00 Without Batteries!

# 8 TRANSISTOR "Majestic"

IN U.S.A.

\$29.95 ppd.

INCLUDING BATTERIES

Hardened Steel

ROTARY RASP Rasps, Shapes, Planes, and Mixes in a Jiffy! No home, farm, garage or shop can afford not to have this ingenious Rotary Revolutionary

LEVEL & INCLINE MEASURE



try-

IDEAL FOR: Leveling and Grading Model Train Tables, Contour Plowing, Carpentry, Brick Laying, Cement Work, Surveying, Guttering, Foundation Plumbing, Duct Installation, Shelving, Irrigation. This amazingly accurate instrument indicates level in the Makes bubble type or obsolete. It not only in, but shows exactly how

# GOVERNMENT SURPLUS BELOW MFR'S COST — DUPONT NYLON CORDS

Light, strong, durable, quick-drying. Will not rot or mildew. Ideal for indoor or out-door 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, white, per ft. per ft. 11/2¢ 1/8" dia., 375 lb. test, white, per ft. 2¢ 3/16" dia., 350 lb. test, olive drab. per ft. 0, 200, 300, 400, 500 ft. and over lengths.

### NYLON BRAIDED LINE

1/4" dia., 1000 lb. test, olive drab, per ft. in 30, 40 and 50 ft. lengths only ---3¢

## MINITE

5/16" dia., 1000 lb. test, per foot --12c 38" dia., 2700 lb. test, per foot --17c 7/16" dia., 3800 lb. test, per foot --20c 14" dia., 1200 lb. test, per foot ---8c All in any length up to 1200 feet

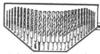
### NYLON FISH LINE

Proven best by experienced fishermen. Heat stretched. Will not kink, twist or unravel. 25 lb. test, 300 ft. Reg. \$1 per spool. NOW 50¢

# NYLON WEB STRAPS

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 foot \_\_\_\_10e 134" wide, 6000 lb, test, per foot \_\_16e In 5, 6, 8, 10, 12 foot lengths.

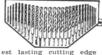
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obber length. Sizes by 64th



### Chrome Vanadium 29 Pc. Drill Set



# FINEST QUALITY Imported Precision Pliers 75¢ Ea.

riters 75¢ Ea.

Flat Nose, Round
Nose, Diagonal, End
Cutting Nippers, 1
Side Flat — 1 Side
Round, Snipe Combination for Jewelers, Optical Workers, Hobbyists,
These European in-

These European inof deep-forged, heat-tres el, fabricated to most exact over ground, polished t Smooth working joints v and perfectly to securely fications. All-over ground, polished to smooth hard surfaces. Smooth working joints with right tension. Jaws meet perfectly to securely hold the most delicate objects. 75¢ each, all 7 for \$5.00 ppd.

Revolutionary New Fishing Invention! CHUMM SINKER

On Your Hook

Set of 3 for Salt Water -4 oz., 6 oz., 10 oz.

• Lets you feel slightest nibble right away

In Small Medium & Large. \$1.98 plus 25ć Specify when ordering.

Perfect Protection Against Fits Any 1/4" Electric Drill Safe & Secure Car Top Carry! Quickfit Contour Marker In Handy Fold-Away Pack Most comfortable, toughest wear fire coveralist with the comfortable of the comfortable o

## SUPREME **HOLE SAW**

with Exclusive new

## Automatic **SLUG EJECTOR**

7 Hole Saws in One

New! At Our LOWEST PRICE!

any electric drill, drill press, lathe, or. Automatic slug ejector pops out immediately. This saw works three s as fast as other hole saws that results of the saw that several the saw that saw that several the saw that is, formica, wall board, etc. con-of sturdy alloy tool head. 7 finest ty shatterproof blades, automatic ejector and 1/4" drill bit. Imported!

low prices

**4 PIECE HIGH** CHROME **SPEED SET** 

## Water ON or OFF at SAME TEMPERATURE-SAME PRESSURE with SHOWER ECONOMIZER Saves Water, Fuel,

Money!











# \$3.95 plus 35¢ pp. .

# Gov't Surplus WEBBED TOW CABLE

Originally made for U. S. Air Force. Never used. Test proven



Set your shower to temperature and pressure desired to the short to go of the 'E conomizer' chain. After you're all you're all with Jacobs Geared Chuck & Key



plus 50¢ pp. & hdlg.

# Steel Jaw HAND VISE

This handy folder for pro as well as amateur has STEEL JAWS 11/4" wide which open up to a full 1". An ingenious V-slot in one side is ideal for holding round object. Overall length is 61/4" with 4" varnished wood handle.

75c ppd. plus 15¢ pp. & hdlg. (3 for \$2.00 ppd.)

# 10" F-VISE SAFETY WRENCH slip grip . . . yet releases at a FLICK

\_\_\_\_\_\_\_

releases at a FLICK
of the finger.

Safe! No more skinned or bruised knuckles! Whether
working in an almost inaccessible place, or out in
the open of the finger whether the open of the finger whether the open of the finger. Made of high grade with a flick
of the finger. Made of high grade alloy
steel, with heat treated jaws, work of
same size up to 11/4" can be held securely.

plus 21c pp & hdig.

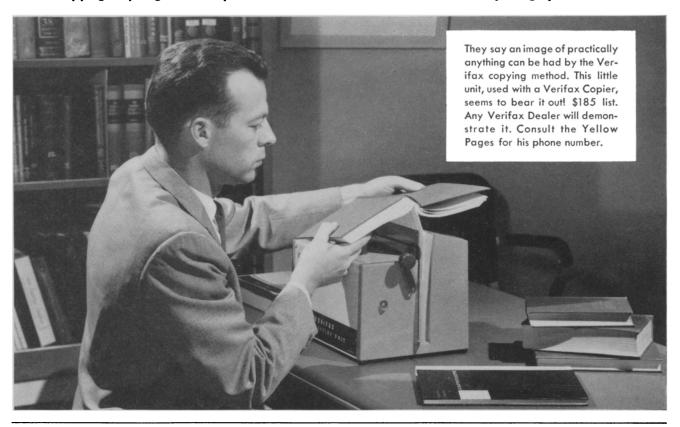
IMPORTANT Order Today and Save.
Minimum order \$1.00.
Send Check or M.O. C.O.D. orders plus
fee. Money Back Guarantee. Protects
you against risk.

## SCOTT-MITCHELL HOUSE, Inc.

Dept. 2407—415 South Broadway, Yonkers, N. Y.

# Kodak reports on:

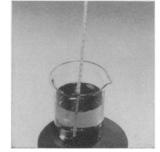
copying as you go...a way to stiffen oil...a nice material to coat with photographic emulsion



## Look, ma! Practically no hydrogenation!



 Into a liquid triglyceride such as cottonseed oil put a small percentage of monoglyceride made from any saturated fat.



2. Heat to about  $75^{\circ}\text{C}$  and cool.



3. The oil becomes a stiff solid. The crystalline matrix holds the oil for prolonged periods with practically no leakage.

This works only with exceptionally pure monoglycerides such as we make by molecular distillation in carload quantities. To find out more, write Distillation Products Industries, Rochester 3, N. Y. (Division of Eastman Kodak Company).

## **Flatness**

Complexity, complexity! Rest the mind on a simple product, a photographic-emulsion-bearing rectangle 6.0 millimeters thick, 190 millimeters wide, 215 millimeters long, and flat within 0.00002-inch per inch. We mean: Nowhere on the surface bearing the emulsion will it be possible to draw a circle of one-inch diameter containing a point of the surface more than 0.00002-inch distant from the plane of the circle. Though achievement of such flatness is not simple, that is none of the user's business.

The user's business is to know the path of a man-made object moving across the sky and to know it with the best precision that man can currently master for the task. The work requires dimensional constancy of the material which bears the image.

That material is glass, a substance known to the Phoenicians and since improved. Our kind alters its linear dimensions by 0.00045% for each degree Fahrenheit of temperature change. Polyester, the most dimensionally stable of commercially available plastics, is called "stabilized" when its temperature coefficient is brought down to twice that. For the hardened steel from which gage blocks are made, the linear expansion coefficient is down to 0.00056%. Steel is opaque and does wicked things to sensitive emulsions.

George Eastman quit his job as a bank clerk in 1881 when he found he could coat emulsion on glass and sell it. That's how our whole business started. Don't think of the photographic plate as an antique, however. To find out how wrong that would be, try putting a question to Eastman Kodak Company, Special Sensitized Products Division, Rochester 4, N. Y. For one thing, you could ask about those ballistic camera plates announced above.

This is another advertisement where Eastman Kodak Company probes at random for mutual interests and occasionally a little revenue from those whose work has something to do with science Price is subject to change without notice.

