Suggestions and Illustrations for Operating The LIGHTNING PORTARIF ADDING MACHINE



SDELICITY A course of instruction is not necessary for operating The Lightning Portable Addit
Machine. It is remarkably simple. A novice can put it to practical use immediately.

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The first two dials, on the right end of the machine, are used for cents—the first one darks of curins, the second for tens. The three models dials, rape for dollars, and madewide of dollars—in that cred. The last two dials (the sixth and seventh, on the left end of the machine) are for thousands and tens of thousands. In short, the number is placed on the machine; has seen every a when writing it on paper.

Above each dial is an "answer" window, through which one figure shows. These figures denote your total, or answer, when adding or multiplying.

W TO Act.

The machine is "clear" and ready for business when each of the answer window figures is zero. To Clear the Machine simply place the stylar in the triangle and turn the dial countries the step. Repeat this on each dial where a figure (other than zero) shows above. Each dial will then show zero through its "answer"

Caution—Always use the stylus when operating.—Do not use a pencil. Also, do not cal. The Lightning is properly individual before leaving factory.

Class the machine to zero—as intracted above. The first number to register is 67 certs.

The the epiles is the bole opposite figure 6 in the second dail from the right (the "tent" and "te

The next item is 40 cents. Register this the same as you did the 67 cents by pixing the strips opposite figure 4 in the tent add and curring interply electives. This complete the operation for the 60 cents as it is never necessary to register a zero when adding. You will now see the could of the neurones \$1.07 thereing thereign the "innover" windows with out pushing any keys or polling any levers. The machine carried the total automatically into the dollars column (third "answer" window).

Register the \$2.57 in the same manner taking care to start this figure in the dollars colum (the third dail from the right). Your total will be \$3.62. Register the \$62.10 starting in the fourth dail or temsof-dollars column. Your total, \$65.72, will show through the "answer" windows.

Turn the dials back to zero (as just instructed) and you are ready for the next column of figures.

Here is another feature which search The Lighning, Andrew Station grows. Purchase the worst objection in a price analogo op the color most of game assisting a deal and he is a short ware to be interruped before finishing the colours. This recentives meriting he is allowed to the color of games and the same and the color of games and the color

IRTAGO The Lightning Adding Machine is one of the few machines, regardless of price, upon which you can subtract without learning the "complementary" system. It subtracts as easily as it adds, thus even entiting you, at will, no receivedness long column of addition, eliminating all doubt. . . The "nerver" windows are not used at all in subtraction. Furst them. The ord "tringht" on each dial serves at the indicator.

Using the accompanying problem in infractions as an example Registrally with the first distill from the right FLACE FIRST STAILES NITE HEADNING, and term the dist to distill for the right FLACE FIRST STAILES NITE HEADNING, and term the dist to dist their three problems of the register. All the state of the right of

We wish to subtract 428.87 from the 674.30 we have registered on the machine. To make the subtraction, register 428.87 same as a adding. For example, begin with the fifth dil, and place the stylus is the opening opposite the white 4. Turn the dild clockwise until it comes to a stop. Now with fourth dil, place the stylus opposite the figure 2

and turn the dial clockwise until it comes to a stop. With the third, second and first dial register 8, 8 and 7, respectively, in the same way.

The result (or answer) is now indicated by the figures opposite the "triangles" (beginning with the fifth dial). In the fifth dial, the triangle is opposite the figure 2. In the fourth dist, the triangle is opposite the figure 4. In the relative triangle is opposite the figure 5, 4 and 3, respectively. Therefore, our result is 244.45.

444. Sprope now, we should desire to sulgene further. For example, we wish to delute a 56.44 from \$2.45\$, we may be not the mather. Simply register the \$6.44, beginning, of cases, with the fourth full, some as advisors, as derired above, by placing the signs of the fourth full, some as advisors, as derired above, by placing the signs of the fourth full, and unage clockwise to the super-discovery control of the super-discovery c

In the same way we can verify a long column of addition by "subtracting" the individual figures from the Answer Wardow total which we first transfer to the "triangles." Our "triangles" will finally register "zero." (Note: When subtracting from a number having zero, be sure the red triangles are on zero and not on nine.)

Through the unique Lightning method of abstraction, an irreducible feature for account and broklarous is brought our. Taking the accompanying illustration of an ordering natural to the contraction of the

Be our the machine is clear. Following the directions for adding, register the clear term on the machine. It was discove a tend of 271.18. Registering with the fifth field, which was a few interest" workine, FLACE THE STYLUS IN THE TRIANVIE, and turn the clair of the strength is opposite depart? On the fourth all, which shows "In the "answer" workine, turn the call so that trangels is opposite depart? It is all a, requested to register the first "It is all a, requested to register the first "It all all a, requested to register the first "It all" an anguester the first trial from the first first first from the first state of the firs

This method is very useful in balancing the bank account. Simply register the previous balance and subsequent deposits, and subtract the various checks.



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Using the accompanying example, mixing 6 (8) by Th. In our method of minipications we their for ground to the covery our of the Legislamic Adding Mackel knows the minipication of the contract Table 1 (8) and a sension. The makine does the carrying and odding the contract Table 1 (8) and a sension. The makine does the carrying and odding from the contract the contrac

HOW TO

Joe at molyplaction is a short form of addition, so drivings in a short form of adversarion. The remarked is arteration former of the Lightness, Addition, Marchine the matter deviation extrained primare for the Lightness, Addition, Marchine the matter deviation extraordy analytic. Their the cample 1764 – 24. Register the dividend opposite being class. When subserve a Ferm the first register from which can be a first the chief the left (in this case 17) as many times as possible. You will find 24 cm be substrated 3 times, then 19 will be a first place for the "To-leveling 1900 on the madule. Use the extreme first fail as a counter and register the 1. Now arteract 24 from the late two right next times the first late and the substrated 2. Now arteract 24 from the late two right cases are consistent and register the 2. Now arteract 24 from the late two rights are consistent and register the 2. Now arteract 24 from the late two rights are consistent and register the 2. Now arteract 24 from the late two rights are consistent and register the 2. Now arteract 24 from the late two rights are consistent and register the consistent and registe

TABULATE TWO ITEMS AT THE SAME TIME Although the dials of this machine are connected so as to carry automatically from one column to another, the various dials can be used separately for tabulating two or more items at the same time. For example, we desire to tabulate balled hay which is being leaded. We want to tabulate not only the total weight of the hay, but also the number of bales.

For thirdsing the number of balls we will use the first two Left hand disk. As one last is bookly, weighing 100 Bat, we register the 1 in the second dist from the lift and of the machine and register the 110 in the first three disks on the right end of the machine. As two bales are included, we register 2 in the "balls" disk, and 225 in the "pound" disk, and so on. When the load is complete, we not only have the total number of bales, but also the total number of pounds.

PARTIAL CLEAR-ANCE If we should desire to clear the number of pounds off the machine, but want to keep the number of bales on the machine, the pounds can be cleared to zero in the usual way, without affecting the number of bales.

Please weigh carefully all the unusual features of The Lightning Pertable Adding Machine—its remarkable utility, handlesse, durability and price, as we will be genuinely grateful if you can offer your vokatasty commendation of the little machine.

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