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Leaves Taylor street.....6:45 A. M.
 Salem.....7:00 A. M.
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SUNDAY TRIPS TO OREGON CITY.
 Leave Portland.....10:30 A. M., 2 and 3:00 P. M.
 Leave Oregon City.....12:30, 3:30, 6:30 P. M.

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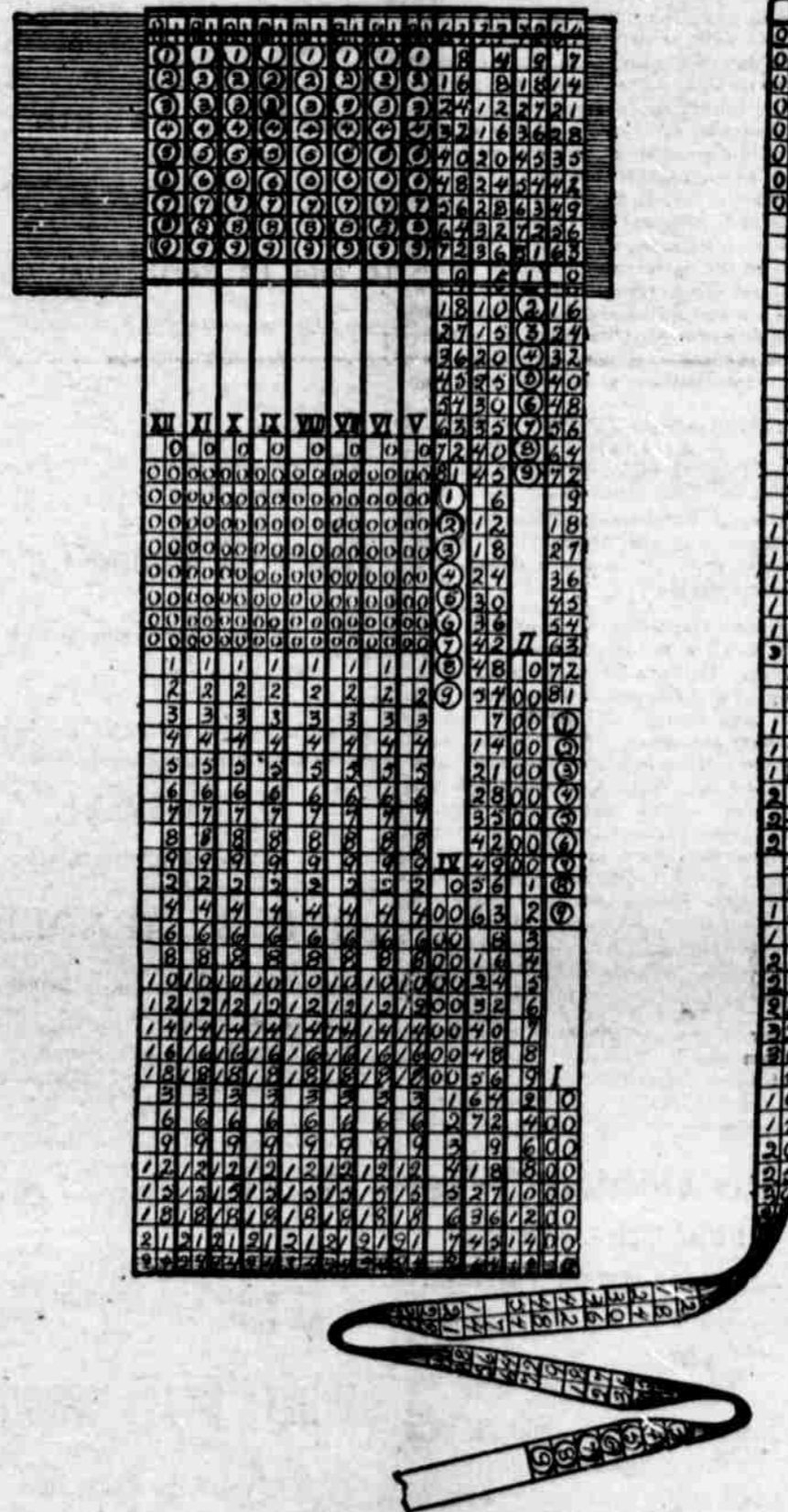
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AN INGENIOUS CALCULATOR.
 A Chinese Invention Remarkable for Its Simplicity.
 A calculator remarkable for its simplicity and ingenuity and entirely different from other machines which employ a series of tapes, has been patented by Chow Ling Shang, of Macao, China, and is described in the Scientific American. The device considerably simplifies multiplication and division. Our illustrations show the complete apparatus and one of the tapes employed.

Upon a base of wood or other material guides are secured which form passages for a series of endless tapes. In our illustration the tapes are designated by the Roman numerals I, II, III, IV, etc. Each tape is longitudinally divided into two columns and into groups of nine numerals each. In the first group all the figures are zeroes; in the second group the numbers "1" to "9" are inscribed; in the third group the number "2" and its multiples up to "18" are written, the units being in the right hand column and the tens in the left hand column. In the next groups are the multiples of 3, 4, etc., up to the multiples of 9, after which the multiples 1 to 9 appear in the center of the



A SIMPLE CALCULATOR.

lape, the division of the tape into two columns being abandoned at that point. When it is desired, for example, to find the product of eight times eight thousand four hundred and ninety-seven, the tapes I, II, III, IV, are moved until the numbers "8," "4," "9," "7," of the tapes are on the same horizontal line, the other tapes being left in their normal positions. In the eighth line will be found the number "66" on tape I; in the same line, tape II, bears the number "72;" tape III, the number "32;" and tape IV, the number "64." The product is obtained by noting for each tape the number contained in the right hand column of that tape, with the addition of the number in the left hand column of the next tape to the right. In other words, contiguous numbers of different tapes are added. Thus, in the present case, "2" and "5" from tapes I, and II, are added, "2" and "7" from tapes III, and III, and "4" and "3" from tapes III, and V. The result obtained is "67,976," which is the product sought. The figuring of other products is readily understood from this example. To multiply by a number larger than 10, the well-known method of adding the results of partial multiplications is employed.

In division the calculator is employed to find multiples of the divisor and to do away with tedious multiplication. In dividing 212,425 by 8,497, for instance, 21,242 is divided by 8,497, as usual, giving 2 as the first figure in the quotient; the calculator may be used for this operation, since it shows that 21 (in the thousands) is between the double (16,994) and the triple (25,491) of 8,497. Twice 8,497 is then read off as 16,994, and subtracted from 21,242, leaving 4,248. To this remainder is added the last figure, 5; and 42,485 is then divided by 8,497. The machine shows at a glance that 42,485 is equal to 5 multiplied by 8,497. The result of the division is therefore 25.

Ruskin's Mother.
 "My mother's general principles of treatment," says Mr. Ruskin, "were to

guard me with steady watchfulness from all avoidable pain and danger; and, as for the rest, to let me amuse myself as I like, provided I was neither fretful nor troublesome."
 "But the law was that I should find my own amusement. No toys of any kind were at first allowed. Nor did I ever painfully wish for what I was never permitted for an instant to hope for, or even imagine the possession of, such things as I now saw in toy shops. I think it should be related that I was steadily whipped if I was troublesome. "In all these particulars I think the treatment of my childhood was entirely right. As soon as I was able to read fluently my mother began a course of Bible work with me, which never ceased until I went to Oxford."

How Lincoln Rebuked His Critics.
 At the White House one day during the Civil War, some gentlemen were present from the West, excited and troubled about the commissions or omissions of the administration. President Lincoln heard them patiently, and then replied: "Gentlemen, suppose all the property you were worth was in gold, and you had put it in the hands of Blondin to carry across the Niagara river on a rope, would you

shake the cable or keep shouting out to him, 'Blondin, stand up a little straighter; Blondin, stoop a little more; go a little faster; lean a little more to the north; lean a little more to the south?' No, you would hold your breath as well as your tongue, and keep your hands off until he was safe over. The government are carrying an immense weight. Untold treasures are in their hands. They are doing the very best they can. Don't badger them. Keep silence and we'll get you safe across."

A Remarkable Calculator.
 Diamandi, a native of Pylaros, one of the Greek Islands, seems to be a remarkable calculator. After a mere glance at a black-board, on which thirty groups of figures are written, he can, it is said, repeat them in any order and deal with them in any arithmetical process. It is said that he never makes an error in calculations involving billions, and he can extract square or cube roots with marvellous rapidity and accuracy. An eminent German specialist declared the other day that these ready-reckoners were idiots. This is not the case with Diamandi, who writes poetry and novels in the intervals of business, and shows considerable intellectual capacity.

Compressed Air Locomotive.
 A compressed air locomotive is to be tried on the Manhattan Elevated Railway, of New York City. The compressed air locomotive or motor is little more than a long black cylinder, similar to the boiler of the present locomotive, with the cab at one end. There will be no smokestack, no tender and no dome. The only protuberances on the cylinder besides the cab will be the whistle and the sand-box.

It is learned that one girl's popularity among the other girls is due to the fact that whenever she visits at their house she insists upon washing the dishes. A lover's quarrel is the sauce that seasons the courtship.

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