

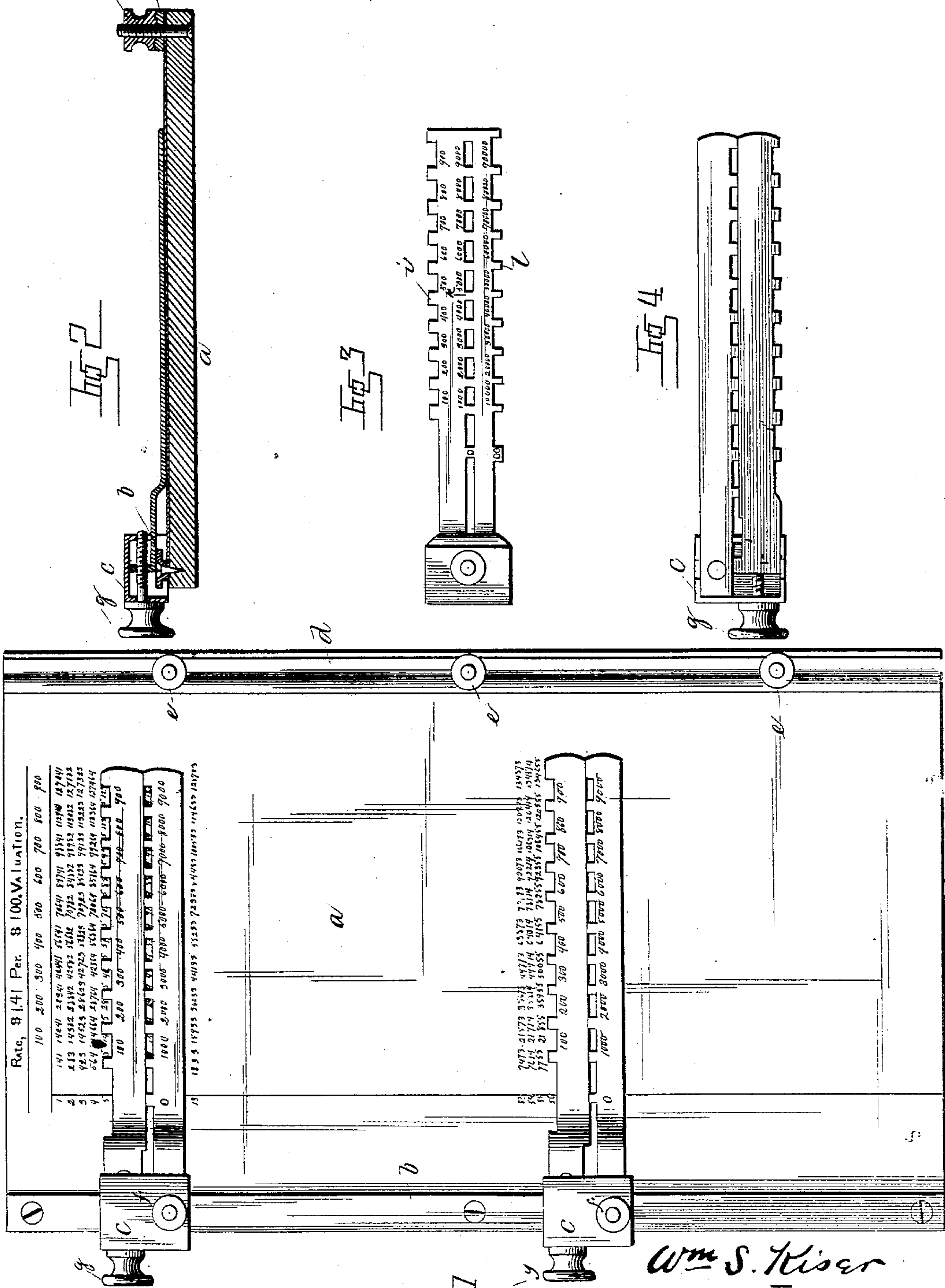
(Model.)

W. S. KISER.

TAX, INTEREST, AND PERCENTAGE CALCULATOR.

No. 292,658.

Patented Jan. 29, 1884.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM S. KISER, OF ALBION, INDIANA.

TAX, INTEREST, AND PERCENTAGE CALCULATOR.

SPECIFICATION forming part of Letters Patent No. 292,658, dated January 29, 1884.

Application filed November 14, 1883. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM S. KISER, a citizen of the United States, residing at Albion, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Tax, Percentage, and Interest Calculators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a plan view of my percentage and interest calculator. Fig. 2 is a transverse sectional view. Fig. 3 is a detached plan of the slotted fingered slide modified, and Fig. 4 is a bottom plan of the slide detached.

This invention has relation to tax, interest, and percentage calculators, whereby percentage, tax, or interest may be determined at a given rate upon any amount of principal; and it consists in the construction and novel arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Referring by letter to the accompanying drawings, *a* designates a rectangular wooden tablet having at its left-hand edge a metallic guide-strip *b*, for receiving a grooved slide, *c*. At its right-hand edge a wooden securing-strip, *d*, is provided and held in place by three screws and three binding-nuts, *e e e*. A printed table of eleven columns of figures—the left-hand column of which represents the numerals from 1 to 100, and the remaining ten columns represent the calculated tax, interest, or percentage on all amounts of money between one dollar and one thousand dollars—is secured to the face of the tablet, one edge resting under the metallic guide-strip and the other under the wooden securing-strip *d*. The grooved slide *c* is provided with a clamping-screw, *f*, and a thumb-nut, *g*, by which the slotted left-hand end of the indicator is secured to the slide adjustably. The grooved slide and the indicator, when connected, form the indicator-slide, by which the interest, percentage, or tax is cal-

culated, each printed table being calculated at a given rate per one hundred dollars valuation. The table must be changed when the rate of tax, interest, or percentage is changed, and no paper, pen, or pencil is required to determine the tax, interest, or percentage.

The indicator proper is struck up from sheet metal, has ten upper fingers, *i*, eleven intermediate bars, *k*, and eleven lower fingers, *l*, the fingers and intermediate bars being spaced to correspond to the printed columns of figures on the tax, interest, or percentage table. The spaces between the upper ten fingers are numbered serially 100, 200, 300, 400, 500, 600, 700, 800, 900, the spaces between the intermediate bars are numbered serially 1,000, 2,000, 3,000, 4,000, 5,000, 6,000, 7,000, 8,000, 9,000, and the spaces between the lower fingers are numbered serially 10,000, 20,000, 30,000, 40,000, 50,000, 60,000, 70,000, 80,000, and 90,000. The left intermediate bar is numbered 0, and the left-hand lower finger is numbered 00, the numbers or figures being stamped in the metal.

To illustrate the operation of the device, I have employed a printed tax-table at the rate of one dollar and forty-one cents per one hundred dollars valuation, although, as before stated, the rate may be varied and the calculation must be according to the rate, and the printed tables changed when the rate is changed. The indicator is a triple indicator.

To use the indicator to find the tax or interest on nine hundred and fifty-six dollars at one dollar and forty-one cents per one hundred dollars, adjust the indicator so that the upper fingers will cut off two figures from the right hand of each column of calculated tax, but none from the numerals from 1 to 100; and when so adjusted the intermediate bars will cut off one figure from the right hand of said columns, and the lower fingers will expose all of the figures in each column. Move the indicator until the top fingers expose the numerals 56, and follow to the right until you arrive at the figures 900 on the indicator, and on the table the figures in the 900 space will indicate \$13.47, which is the proper amount, two decimal-spaces being marked off by the top fingers. If the tax on nine thousand five hundred and

sixty dollars should be wanted, the intermediate space over the numerals should expose 5 6, and the cipher on the bar at this point will make it read 560, and at the point at the right
5 where the figures 9,000 occur will be found the correct amount—viz., \$134.79. If the tax on ninety-five thousand six hundred dollars should be wished, place the lower finger so as to expose the number 56 in the numeral-column,
10 and the two ciphers on this finger will make it read 5,600. Follow again to the right, and under the figures 90,000 you have the proper amount—viz., \$1,347.96. The interest, tax, or percentage for the numerals 1 to 9 can be
15 found separately, and also the 10's, and added mentally, so that there is no need of multiplication.

Having fully described my invention, what I claim as new, and desire to secure by Letters
20 Patent, is—

1. In a tax, interest, and percentage calculator, the combination, with a tablet having a

guide-strip at its left-hand edge, of a triple sliding indicator and a tabulated sheet, on which the per centum for one to one thousand
25 has been calculated and arranged in columns of one hundred resultants, whereby the sliding indicator may be removed to expose the amount of tax, interest, or percentage on a given principal, substantially as specified. 30

2. In a tax, interest, or percentage calculator, the combination, with a tablet having a guide-strip at one edge and a securing-strip at the other edge, of a tabular calculation and a triple indicator connected adjustably to a
35 grooved slide upon the guide-strip, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WM. S. KISER.

Witnesses:

C. B. PHILLIPS,
HERM. F. LANG.