D. F. ROEDER.

PENCIL.

APPLICATION FILED SEPT. 13, 1911. RENEWED NOV. 13, 1912.

1,068,367. Patented July 22, 1913.

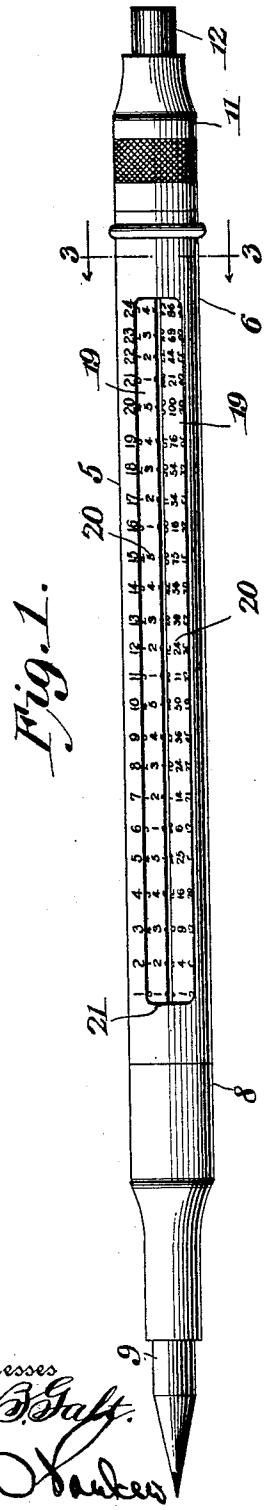


Fig. 1.

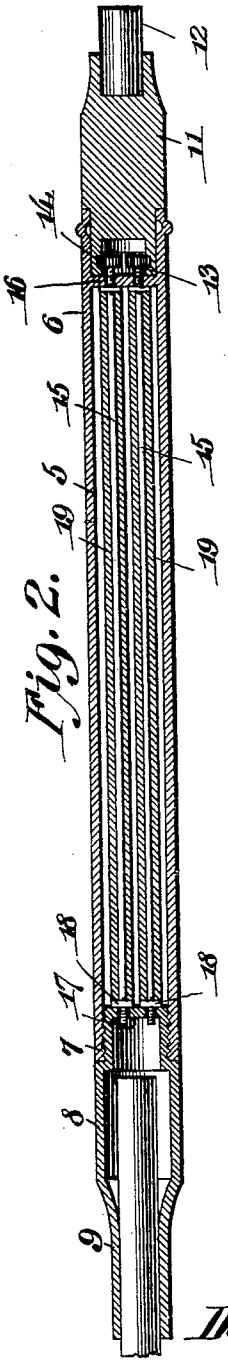


Fig. 2.



Fig. 3.

Witnesses

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PENCIL.

1,068,367. Specification of Letters Patent. Patented July 22, 1913.

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To all whom it may concern:

Be it known that I, DANIEL F. ROEDER, a citizen of the United States, residing at Streator, in the county of Lasalle and State of Illinois, have invented new and useful Improvements in Pencils, of which the following is a specification.

The invention relates to pencils, and more particularly to the class of pencils having a computing attachment.

The primary object of the invention is the provision of a pencil in which the body thereof is provided with rotatable members, the outer surfaces of which are provided with multiplication numbers, whereby the same will coöperate with a scale upon the body of the pencil, so as to permit a person to compute the price or prices and quantity of material to be distributed.

Another object of the invention is the provision of a pencil in which the body thereof carries a computing device for the convenience of the user of the pencil, whereby calculations may be instantly had, without mental effort.

A further object of the invention is the provision of a pencil of this character which is simple in construction, thoroughly reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawings: Figure 1 is a side elevation of a pencil constructed in accordance with the invention, showing the computing attachment applied thereto. Fig. 2 is a vertical longitudinal sectional view through the same. Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, the pencil comprises a hollow tubiform body 5 provided with an expanded end 6, and an opposite contracted end 7, into which latter is removably fitted a ferrule 8, containing a pencil 9 of the ordinary type.

Detachably telescoping within the expanded end 6 of the body 5 is the contracted end 10 of a rotatable cap 11, carrying the usual pencil eraser tip 12, the contracted end 10 of the rotatable cap 11 being formed with an internal cog gear 13, meshing with cog pinions 14 fixed to rotatable shafts 15, the same being disposed longitudinally in parallel relation within the body 5, said shafts 15 being journaled in an end wall 16 formed on the expanded end 6 of the said body 5. The shafts 15 are also journaled in a bearing 17 formed on the inner end of the ferrule 8. The shafts 15 are provided with annular shoulders 18 which engage the bearing 17, so as to prevent any longitudinal displacement of said shafts when journaled interiorly of the body 5 of the pencil. Carried upon the shafts 15 and suitably fixed thereto are cylinders 19, the outer surfaces of which are provided with suitable indicia 20 arranged in rows, so as to form a multiplication table of numerals, which are visible through an elongated slot 21 provided longitudinally in the body 5. Arranged at one side of the slot 21 on the body 5 is a row of numerically arranged figures ranging, for instance, from 1 to 25, which are readable with the numerals on the cylinders 19, whereby a person manipulating the rotatable cap 11 may instantly compute either the price or quantity of material to be distributed, without mental calculation.

The body 5 of the pencil is provided with a further elongated slot 22 diametrically opposite and coextensive with the slot 21, so that the indicia upon the computing cylinders 19 may be read from either side of the pencil, as will be obvious. The pencil may be used as an ordinary pencil, and in addition thereto, computing of figures may be attained.

From the foregoing, taken in connection with the accompanying drawings, it is thought that the construction and operation of the invention will be readily understood, without requiring a more extended explanation.

What is claimed is:

A pencil of the class described, comprising a hollow cylindrical body having a slot therein extending substantially the length of the same, a partition formed in said body near one end thereof, internal threads formed on the body at the opposite end, a ferrule having a contracted externally

threaded end engaging the internal threads in the body, a rotatable cap mounted in the opposite end of the body, the said partition and the contracted end of the ferrule being provided with perforations adapted to aline with each other, shafts journaled in said perforations, computing scale cylinders carried by said shafts and visible through the slot in the body, cog gears fixed to said shafts, and internal cog teeth formed on the cap and meshing with said gears.

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

DANIEL F. ROEDER.

Witnesses:
JAMES P. ROLLO,
CATHERINE WHITE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."