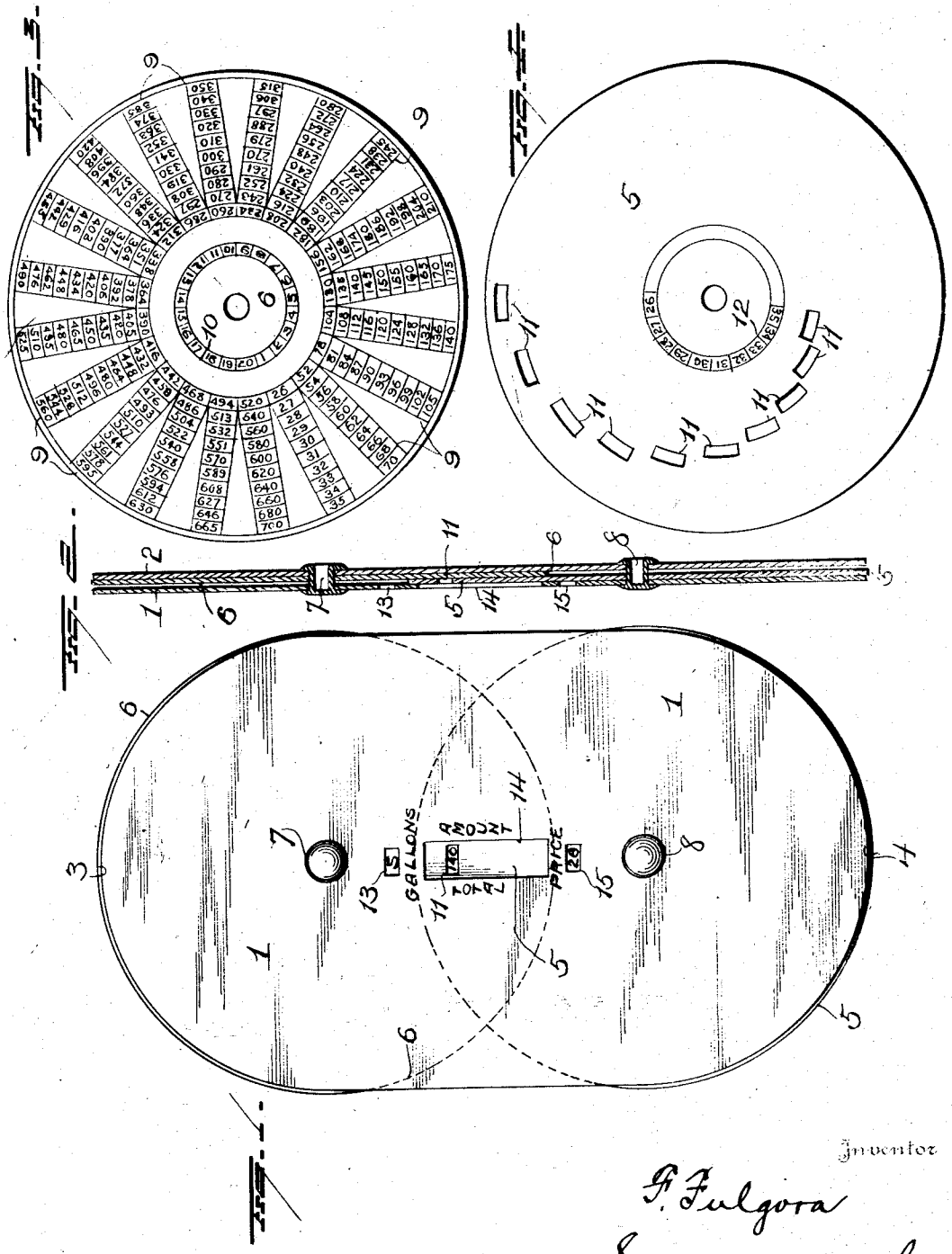
April 29, 1924. 1,492,026

F. FULGORA

CALCULATING DEVICE

Filed Feb. 16, 1922



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Patented Apr. 29, 1924. 1,492,026

UNITED STATES PATENT OFFICE.

FRED FULGORA, OF PITTSBURGH, PENNSYLVANIA.

CALCULATING DEVICE.

Application filed February 16, 1922. Serial No. 537,036.

To all whom it may concern:

Be it known that I, FRED FULGORA, a citizen of the United States, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Calculating Devices; and I do hereby 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.

This invention relates to improvements in portable calculating devices and more particularly to such as may be made of thin material, such as cardboard for example and at such cost as to permit their use for advertising purposes,—one object of the invention being to provide a device of the character designated which may be conveniently operated to accurately calculate the total cost of a given quantity of material at one or another price per unit of measure.

With this and other objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view of a calculator embodying my improvements. Figure 2 is a sectional view of the same, and Figures 3 and 4 are views of the calculating disks.

For convenience of description and illustration, I have shown and will describe my improvements as a calculator for determining the total cost of any desired number of gallons of gasoline, at any one of various selling prices of this product, per gallon, but it will be understood that my improvements are applicable for calculating the cost of a plurality of units of other materials having a particular unit value, whether the units be reckoned by either liquid or dry measure or weight.

My improved calculator comprises a frame consisting of two elongated members 1 and 2 disposed parallel with each other and having curved upper and lower edges as indicated at 3 and 4, and two circular disks 5 and 6 disposed between the members 1 and 2 and pivotally connected with the same, as indicated at 7 and 8. The disks 5 and 6 are so mounted between the members 1 and 2 that the disk 5 will overlap the disk 6 and said disks have such size that they will project slightly beyond the curved end portions 3 and 4 of the members 1 and 2 to be readily engaged by the finger of the user for turning them.

The disk 6 is provided with an annular series of radial columns 9 having indicated therein the total cost of given quantities of material, which quantities are indicated on said disk by numerals representing quantities, said numerals being arranged in circular formation between the center of the disk and the inner ends of the columns as indicated at 10 and each in radial alignment with one of the radial columns 9.

The disk 5 is provided with a plurality of slots 11 which are arranged in spiral relation so that any one of said slots may overlie any one of the radial columns 6 and each slot will permit a reading of a single number in the column. Near the center of the disk 5 is an arcuate series of numbers, each number being alined radially with one of the slots 11, as indicated at 12 and these numbers represent prices of units of weight or measure of material. One end of this partially circular series of price numbers is in radial alignment with one end of the spiral series of slots and the other end of said partially circular series of price numbers is in radial alignment with the other end of the spiral series of slots.

The front member 1 of the frame is provided on its medial longitudinal line with a slot or opening 13 through which the quantity designations 10 on the disk 6 may be seen (one at a time) and adjacent this slot or opening upon the face of the frame member 1 may appear a suitable designating legend, as "Gallons," for example. Below the slot or opening 13, the front member 1 is provided with an elongated medial longitudinal slot 14 and the disk 5 is so arranged that it will pass behind the slot 14 and cause one or another of the slots 11 to expose a number in one of the radial columns of the disk 6 and thus indicate the total cost of a certain number of gallons at a certain price,—the price per gallon indicated in the arcuate series of numbers 12 on the disk 5 being seen through an opening 15 in the front member 1. The slot 14 may be designated "Total amount" and the opening 15 being designated "Price."

It will be noted that the slots 13, 14 and 15 are alined longitudinally of the frame plate at the center thereof with the smaller openings 13 and 15 at the opposite ends of

the longer slot 14 and equally spaced therefrom, and that the quantity designations 10 and the price designations 12 occupy corresponding positions upon their respective disks.

My improved calculator can be manufactured at small cost and its front and back members 1 and 2 are admirably adapted to receive advertising matter.

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

A calculator comprising a front frame member and a pair of disks pivotally mounted upon the back of said frame member with a portion of one disk overlapping a like portion of the other disk at the center of the frame member, the said frame member being provided at its center with a longitudinally extending slot and with openings adjacent and equally spaced from the opposite ends of the slot, the disks having upon their faces in corresponding positions arcuate series of price and quantity designations respectively, said designations being viewable single through the respective smaller openings in the frame member, the overlapped disk having upon its face radial columns of total cost designations alined with the respective quantity designations on said disk and adapted to register with the longitudinal slot in the frame member and the overlapping disk being provided with a series of openings alined radially with the respective price designations on said disk and disposed at progressively greater radial distances from said designations whereby they may register singly with the longitudinal slot in the frame member and expose through said slot a total cost designation constituting the product of the price and quantity designations exposed through the smaller openings at the ends of the slot.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

FRED FULGORA.

Witnesses:
W. D. DUDLEY,
GEORGE ABERNATHY.