

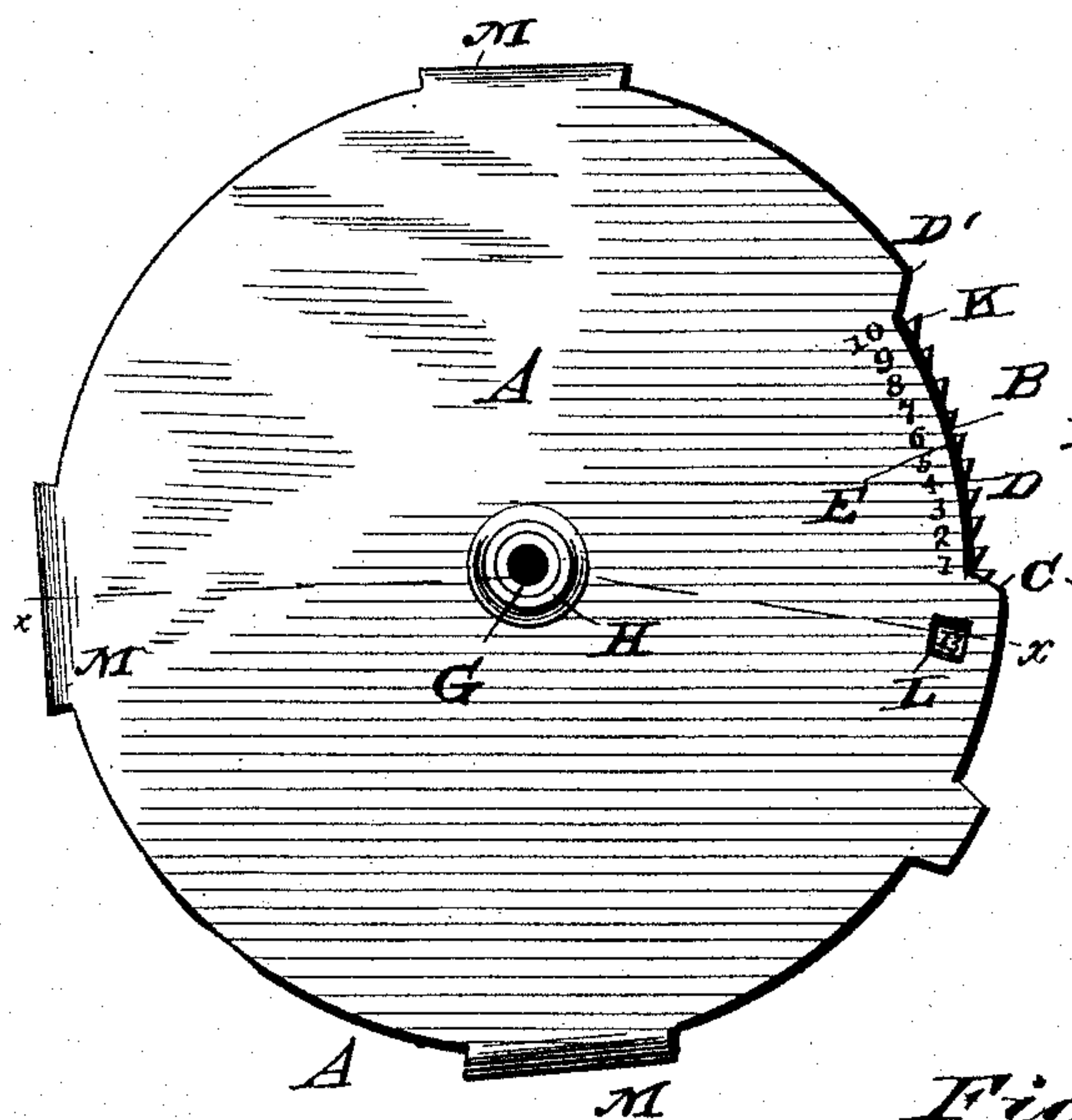
(No Model.)

A. E. HIX.  
ADDING MACHINE.

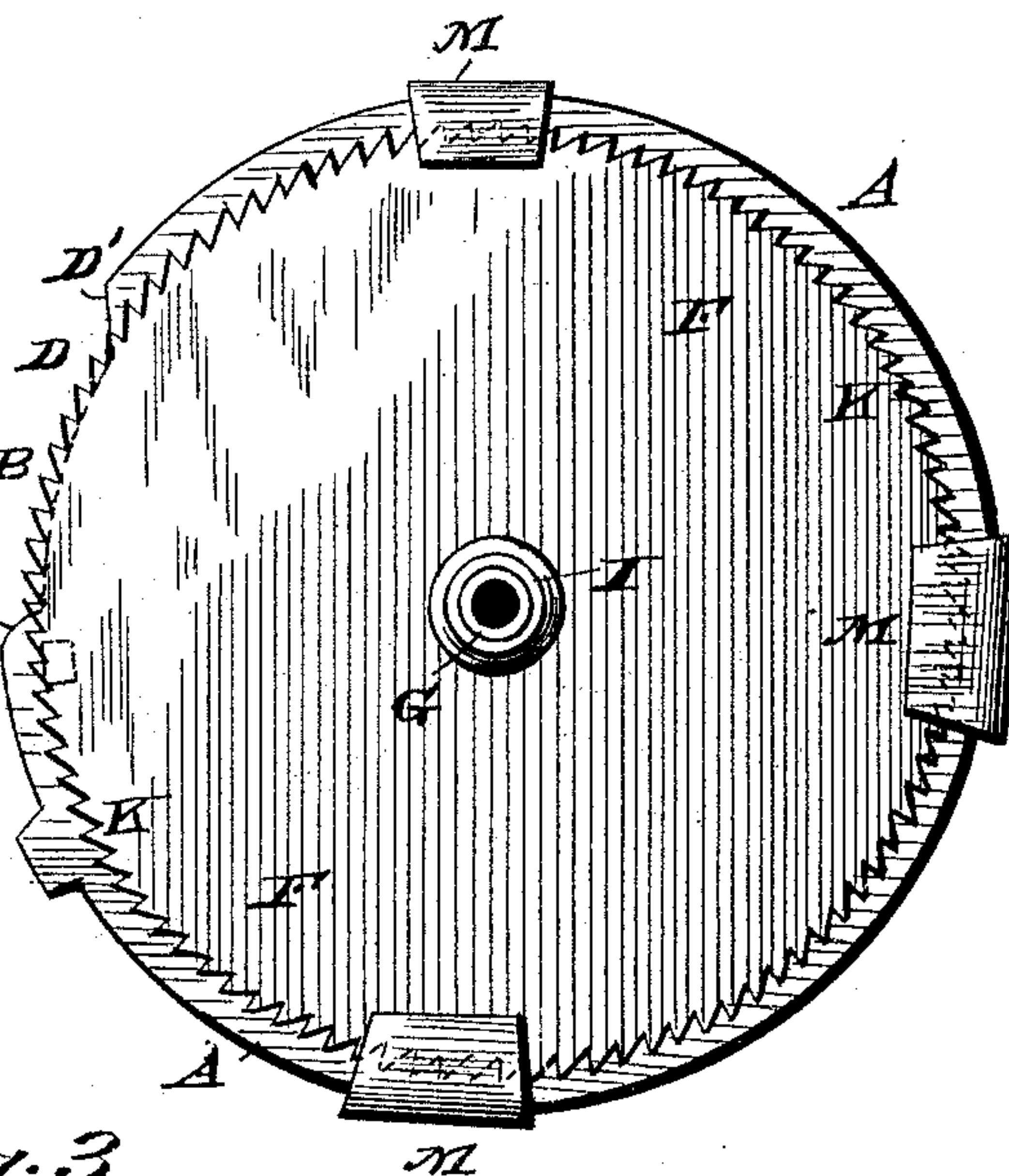
No. 354,789.

Patented Dec. 21, 1886.

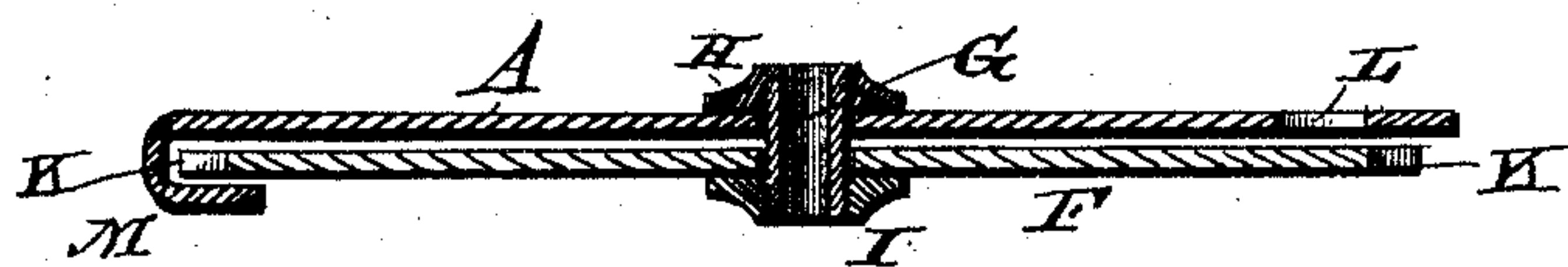
*Fig. 1.*



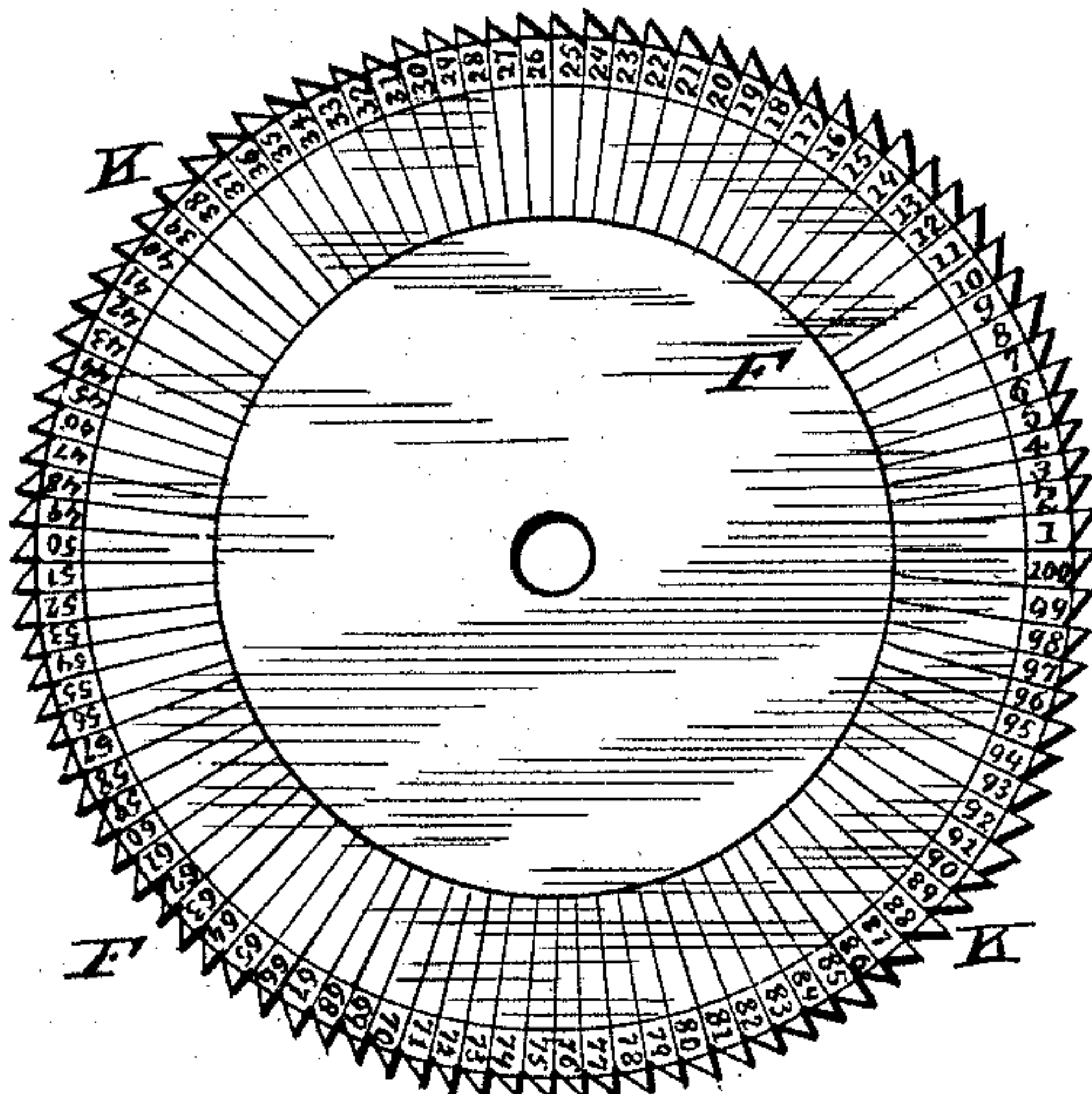
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



WITNESSES

*Phillips.*  
*Ben Fugitt*

INVENTOR

*A. E. Hix.*  
*by Anderson & Smith*  
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# UNITED STATES PATENT OFFICE.

ALBERT EUGENE HIX, OF SYCAMORE, ILLINOIS.

## ADDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 354,789, dated December 21, 1886.

Application filed June 30, 1886. Serial No. 206,734. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT EUGENE HIX, a citizen of the United States, residing at Sycamore, in the county of De Kalb and State of Illinois, have invented certain new and useful Improvements in Adding-Machines; 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 ap-  
10 pertains 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 representation  
15 of a top plan view of my improved adding-machine. Fig. 2 is a bottom plan view of the same. Fig. 3 is a transverse section on the line *xx*, Fig. 1, and Fig. 4 is a plan view of the numbered disk.

20 My invention relates to adding-machines; and it consists in the construction and novel combination of parts, as hereinafter fully described, and pointed out in the claim.

Referring by letter to the accompanying  
25 drawings, A designates a circular cap-plate, which is cut away at B in its edge, leaving a shoulder or stop, C, at the lower end of the space D, and an inclined edge, D', at the other end of said space D. Along and just within  
30 the arc E, formed by removing the portion of the disk just mentioned and commencing just above the shoulder or stop C, are stamped the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, the number 10 being just above the lower terminus of  
35 the incline D', and the figure 1 a distance equal to the width of the base of one tooth on the toothed disk F, which is pivoted at its center to the under face of the disk or cap-plate A by a short threaded tube, G, screw-threaded  
40 externally on both ends to receive nuts H I, which are screwed on the projecting ends of said tube and hold the cap-plate and toothed disk thereon, and at the same time permit the toothed plate or disk F to be revolved thereon.

45 The toothed plate or disk F is provided on its edge with one hundred teeth, K, and these teeth K are numbered consecutively from 1 to 100, the figures designating the teeth being placed directly opposite the bases of said teeth  
50 in the upper face of the disk, said figures being stamped in by dies, and, if desired, filled in with some suitable material that will cause them to show distinctly; but this is not essential.

In the cap-plate A, directly opposite the  
55 stop or shoulder C, a slot or view-hole, L, is cut, through which slot any one figure on the disk F, or the sum of any two numbers, where the number to be added to is less than ninety, may be viewed after any number between 1  
60 and 10 has been added thereto, by placing the forefinger of the right hand on the tooth K, opposite the number to be added to the number already shown through the slot L.

The machine has a capacity of adding only  
65 to one hundred units without repeating the units-column; but the tens-column may be treated as units of that denomination and added as units, and then set down in the tens place in the sum of the column, and this sys-  
70 tem may be carried on to the left as many columns as may be necessary.

Flanges M may be provided at intervals on the periphery of the cap-plate, to guard the  
75 toothed plate, and also to serve as points to hold the cap-plate between the thumb and forefinger of the left hand. The thumb of the right hand is also used to give steadiness to the right hand, and is rested against the periphery of the cap-plate at any convenient point below  
80 the cut-away portion B, while the forefinger of the right hand is used to turn the toothed wheel or disk to bring the desired sum under the view-slot.

Having described this invention, what I  
85 claim, and desire to secure by Letters Patent, is—

The combination, with the cap plate or disk having the cut-away portion with the stop at its lower end, and the view-slot below the stop,  
90 and the figures 1 to 10, inclusive, displayed along the arc of the cut-away portion, the figure 1 being nearest the stop, of the toothed disk provided with one hundred peripheral teeth, said teeth being designated by visible  
95 numbers opposite the bases of said teeth, said cap-plate and toothed disk being mounted on a common central pivot and adapted to be revolved thereon, substantially as specified.

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

ALBERT EUGENE HIX.

Witnesses:

P. M. ALDEN,  
C. E. WALKER.