

No. 666,070.

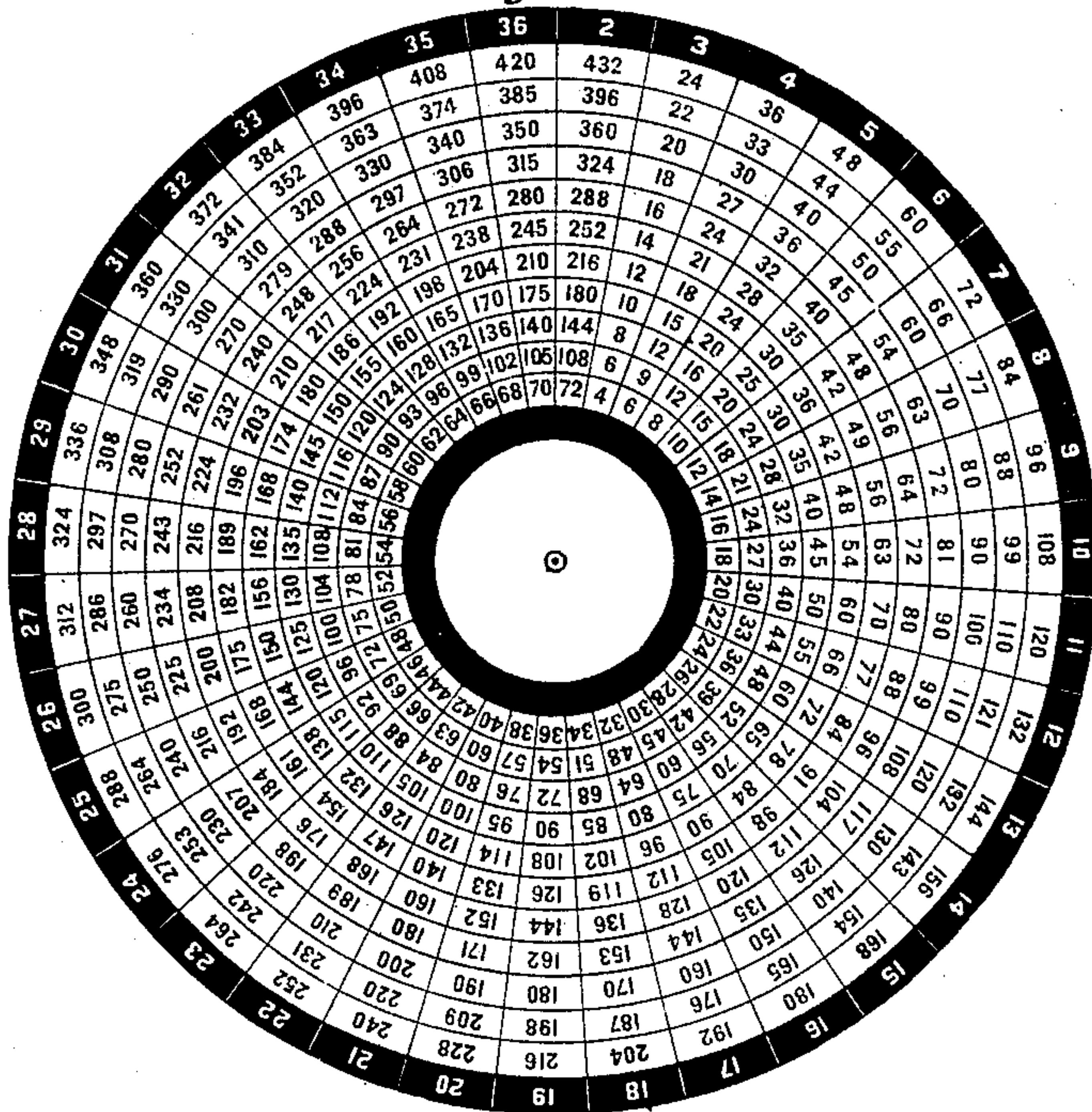
Patented Jan. 15, 1901.

O. SCHLEICHER.  
MATHEMATICAL DEVICE.

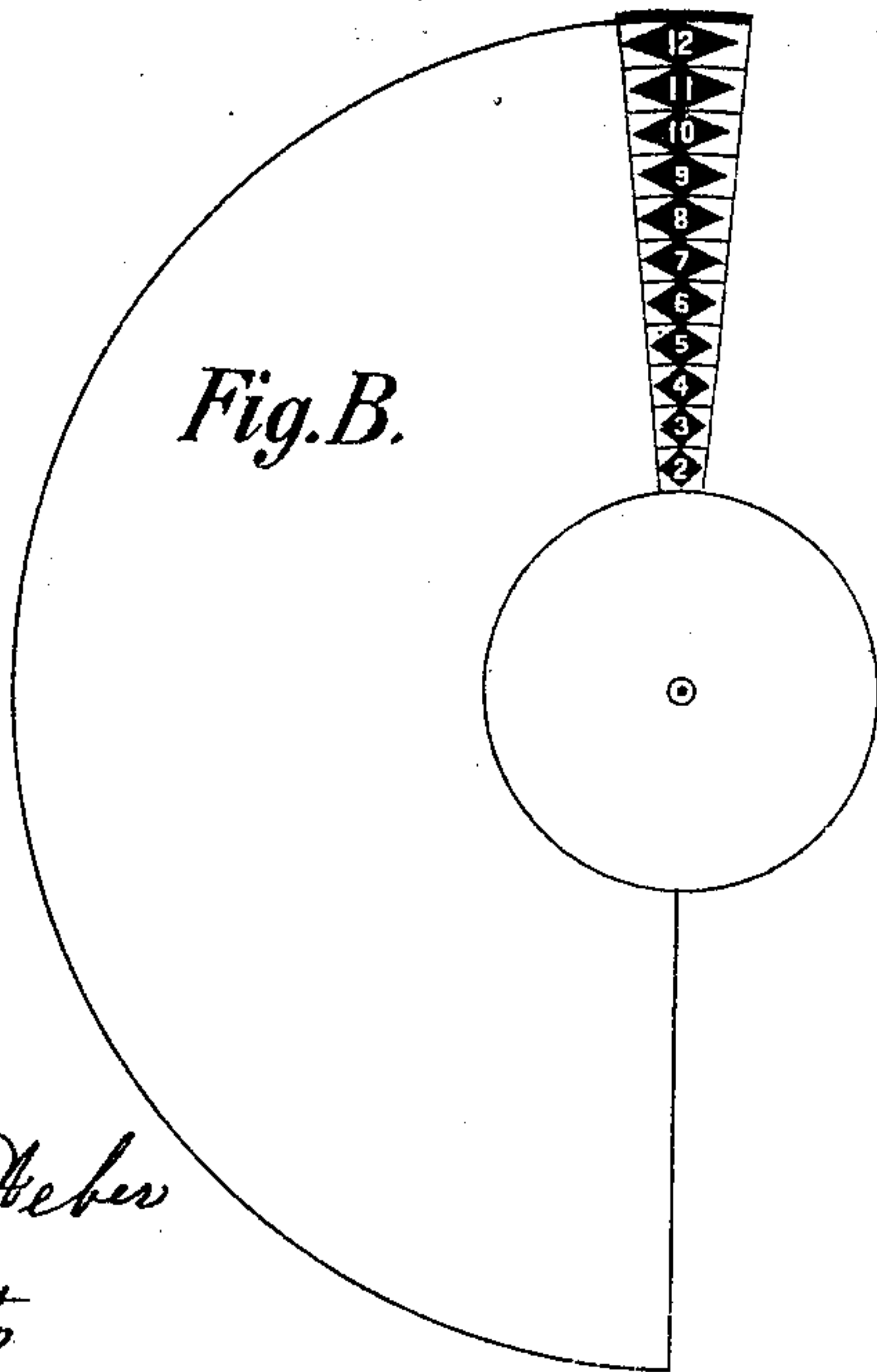
(Application filed Oct. 20, 1900.)

(No Model.)

*Fig. A.*



*Fig. B.*



Witnesses.  
John N. Weber  
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# UNITED STATES PATENT OFFICE.

OTTO SCHLEICHER, OF CINCINNATI, OHIO.

## MATHEMATICAL DEVICE.

SPECIFICATION forming part of Letters Patent No. 666,070, dated January 15, 1901.

Application filed October 20, 1900. Serial No. 33,797. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO SCHLEICHER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton, State of Ohio, have invented and produced a new and original Configuration of an Article of Manufacture of a Mathematical Device, of which the following is a specification, reference being had to the accompanying drawings.

Figure A is a dial arrangement consisting of figures for the purpose of furnishing the total amount multiplied or divided.

Fig. B serves as a sector wherewith to multiply or divide.

For example, to multiply twelve times twenty-seven bring the sector-letter "B" under the figure "27" on dial lettered "A." In the next right-hand column under the figure "28," immediately in front of the figure "12" on the dial "B," will be found the correct answer, "324." For division the rule is just the reverse, as twenty-seven into three hundred and twenty-four goes twelve times. This mode of operation applies to all the different figures on the card.

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

In a calculator, a disk having a series of figures in radial rows and in concentric circles, a pivot in the center of said circles, a sector of a circular disk revolubly mounted on said pivot and extended to cover all except the outside concentric circle of figures, said sector also having a radial row of figures, said figures on the sector corresponding in distance from the center with the figures on the disk, any figure on the disk excepting those in the outer circle being equal to the product of the figure in the outer circle in the radial row next to the left multiplied by the figure on the sector in the same circle, substantially as described.

In testimony whereof I have signed my name to this application in the presence of two witnesses.

OTTO SCHLEICHER.

Witnesses:

E. H. BAKER,  
W. C. HILL.