

(No Model.)

J. V. CHARPANTIER.
CALCULATOR.

No. 322,161.

Patented July 14, 1885.

Fig. 3.

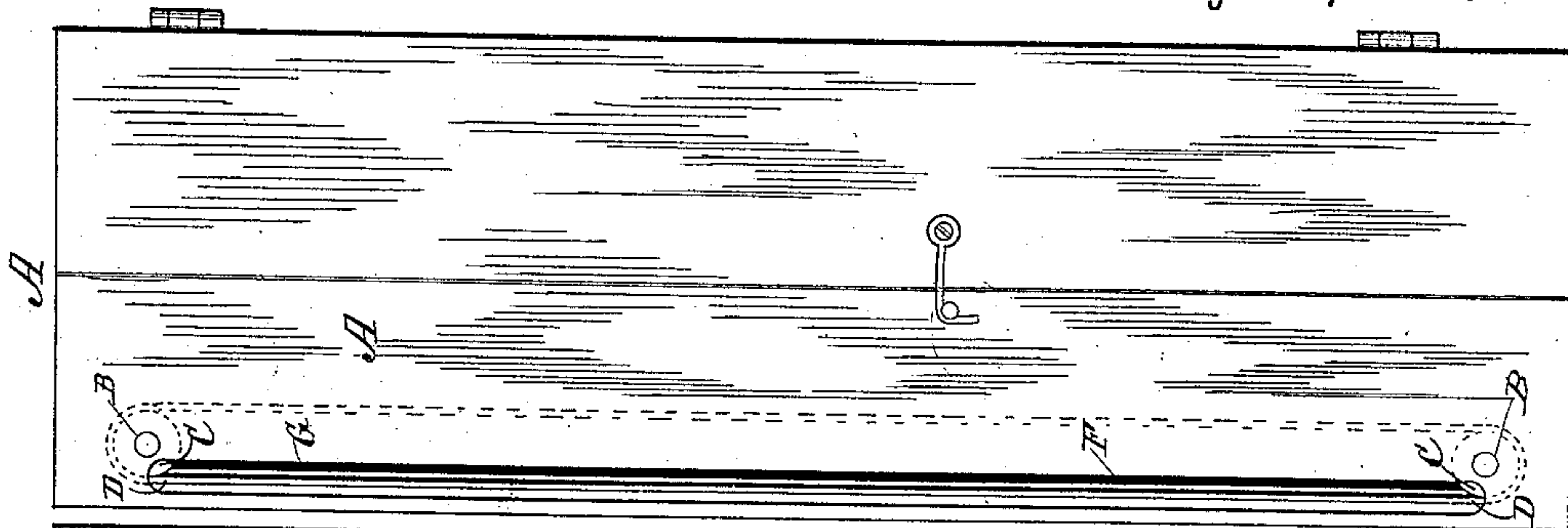


Fig. 2.

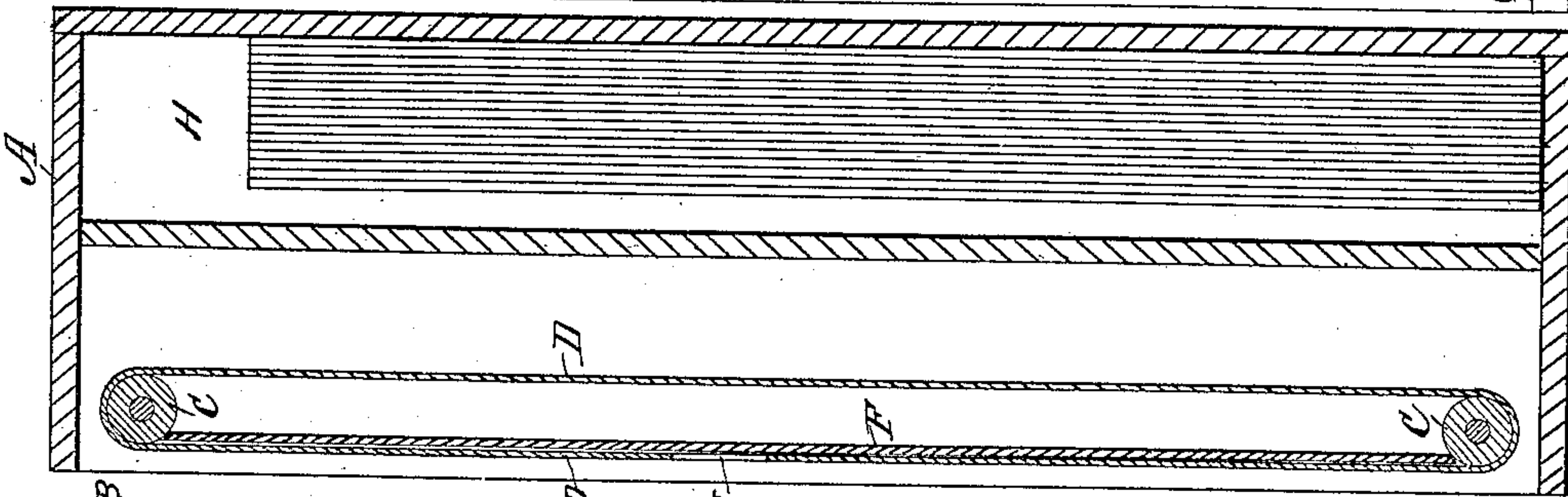
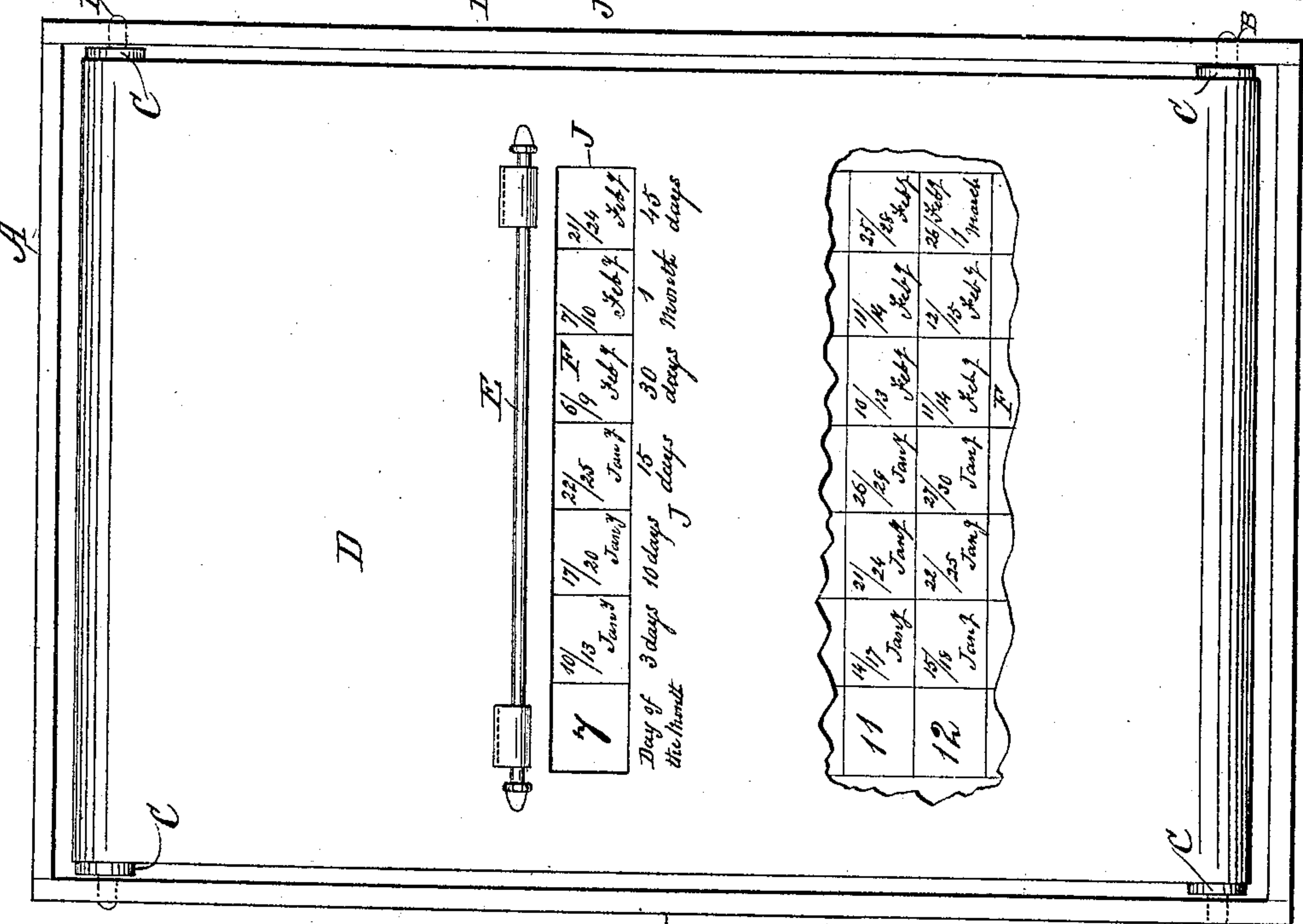


Fig. 1.



WITNESSES:

W. W. Hollingworth
W. R. Stevens

INVENTOR:

J. V. Charpantier
BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JULES V. CHARPANTIER, NEW ORLEANS, LOUISIANA.

CALCULATOR.

SPECIFICATION forming part of Letters Patent No. 322,161, dated July 14, 1885.

Application filed February 11, 1885. (No model.)

To all whom it may concern:

Be it known that I, JULES V. CHARPANTIER, a citizen of the United States, residing at New Orleans, in the Parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Calculators, of which the following is a description.

This invention relates to that class of devices which serve to facilitate computations of time in counting-room and office work. Heretofore it has been common to calculate the date at which notes, &c., come due, by a computation, in which it is necessary to consider the number of days in each month in question. For instance, in computing the date of maturity of a note drawn to sixty days from January 16, you have to consider the number of days in January and in February.

The object of this invention is to provide a calculator which shall show at a glance the date of maturity of any note, draft, acceptance, &c.

To this end the invention consists in a series of tabulated cards, a rotary slotted screen, and a box therefor, constructed and combined, as hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation of my invention. Fig. 2 is a transverse vertical section, and Fig. 3 is a side elevation thereof.

A represents a box having holes B, in which two rods, C, are journaled to revolve as rollers.

D is a screen in the form of a band, fitted closely around the rollers C, and provided with a metallic cross-rod, E, to serve as a handle by which the screen may be raised or lowered.

F represents one of a series of cards, of which I provide thirteen, one for each of the twelve months, and an additional one for February in leap-years. Each of these cards contains a table having as many horizontal lines as there are days in that month, and as many vertical lines or columns as may be required to give the table sufficient range. Each card corresponds in form and proportions to the face of the screen D, so that the said card

may be inserted behind the front half of the screen. To admit the card there is a slit, G, in the edge of the box in a plane tangent to the front sides of the rollers C. Through this slit the cards may be inserted and removed. H represents a receptacle in the box to the rear of the screen in which the cards not in use may be kept.

J represents an aperture in the screen, as wide and long as the width and length of the horizontal lines in the tables, and adapted to register with the said lines, so as to expose one line at a time when the table is behind the screen, and when the screen is in proper vertical adjustment. The screen is divided into a series of spaces along one edge of the aperture J, registering with the columns of the table. These spaces may be marked with units of time indicating periods which are the most common measures of duration of notes, drafts, acceptances, &c., such as three days, ten days, fifteen days, thirty days, one month, forty-five days, &c. The left-hand space may read "day of month" to register with the column of days on the table. The use of the table is as follows: The table shown in the drawings is for January. Supposing we wish to know at what date a note will mature which was drawn January 7, at thirty days from date. We set the aperture in the screen at the seventh line on a card having "January" on its left. Now, by looking in the thirty-days' column on the screen, we see "February 6 to 9" marked on the card, which are the days of maturity and grace sought. Supposing the note had been drawn "one month from date," then we see that the 7th and 10th of February are the days of maturity and grace. The columns of the tables and the screen may be provided with units of larger dimensions, such as "60 d.," "120 d.," &c. Each date on a line is the result of adding the number of days indicated on the screen in the same column to the day of the month at the left on that line, the limit of the days of grace also being given. Each card or table is a calendar of the dates in question, all measured forward from the days of the month for which that table is the calendar, and all the cards are made to register with the screen and to be

held in place by resting their upper and lower edges in the angle between the screen and the rollers.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the box A, having the holes B, the two rollers C journaled in the said holes, the screen D, mounted as a belt on the said rollers, and having the transverse aperture J spaced along its edge, and the spaces marked indicating different units of time, and the tabulated cards F, spaced to correspond with the spaces on the screen D, substantially as shown and described.

2. The combination of the box A, having the holes B in its side edges, and the slit G in the edge in a plane tangent to the front sides of the said rollers, the screen D, fitted around the rollers, and the tabulated cards F, of a length to be held between the screen and rollers, substantially as shown and described.

3. The combination of the box A, the rollers C, journaled therein, the screen D, mounted as a belt on the rollers and having the transverse aperture J, and the cards F, placed behind the screen, each card having dates marked in columns and horizontal lines on it, and the screen marked at the edge of the said aperture in column with the dates 11 on the cards, the markings on the screen and on the card behind it bearing an arbitrary ratio to each other, substantially as shown and described, whereby any number on the screen being added to a date in the left-hand column of the card, the sum of the addition is indicated on the card on the same horizontal line and in the column of the added number on the screen.

JULES V. CHARPANTIER.

Witnesses:

E. BOUNY,

J. F. MEUNIER.