

(No Model.)

J. B. VANDERVORT.  
REGISTER OR COUNTER.

No. 566,430.

Patented Aug. 25, 1896.

Fig. 1.

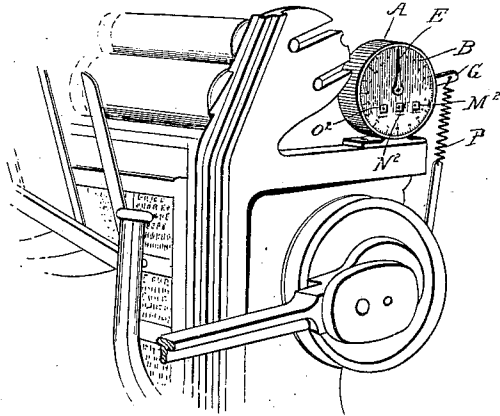


Fig. 2.

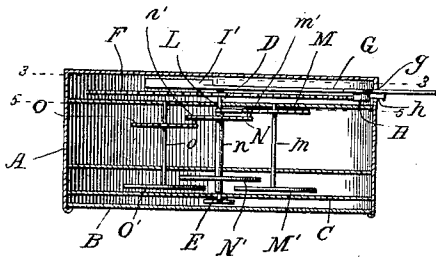


Fig. 3.

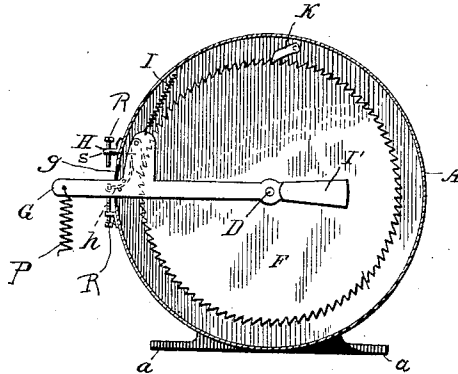


Fig. 4.

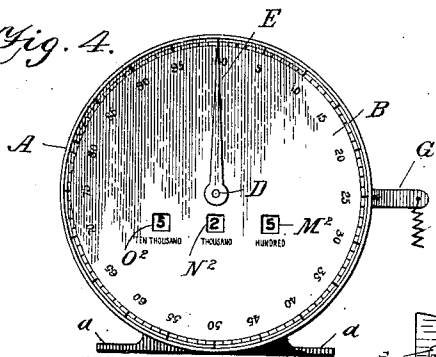


Fig. 5.

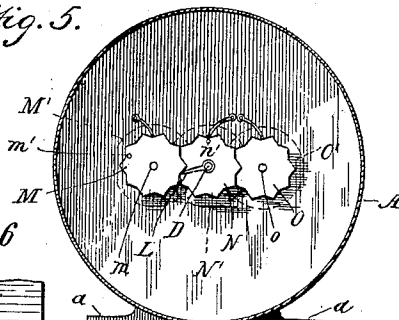
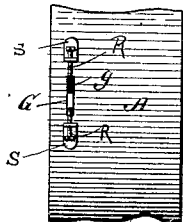


Fig. 6.



WITNESSES:

*E. H. Monroe*  
*Chas. Brock*

INVENTOR  
*J. B. Vandervort.*

BY  
*O'Meara & Co.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JAMES B. VANDERVORT, OF WINONA, MINNESOTA.

## REGISTER OR COUNTER.

SPECIFICATION forming part of Letters Patent No. 566,430, dated August 25, 1896.

Application filed March 31, 1896. Serial No. 585,606. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES B. VANDERVORT, residing at Winona, in the county of Winona and State of Minnesota, have invented a new and Improved Register or Counter, of which the following is a specification.

This invention relates generally to a register or counter, and more particularly to one adapted for use upon printing-presses.

10 The object of the invention is to provide an exceedingly cheap and simple register or counter, and one which can be applied to any of the well-known printing-presses now in use.

15 Another object is to provide an exceedingly simple device capable of registering or counting one hundred thousand.

20 Another object is to provide a register or counter in which the mechanism can be contained within a neat case of small dimensions, and a still further object is to provide a simple form of actuating mechanism.

25 Another object is to provide a register or counter in which the exact number will be indicated and capable of being read at a glance.

30 Another object is to provide a register or counter in which the numbers from "1" to "100" will be indicated on the dial by a pointer, which numbers above "100" will be indicated by figures exposed through openings in the dial, said numbers being in hundreds, thousands, and ten thousands.

35 With these various objects in view my invention consists in the peculiar construction of the several parts and in their novel combination and arrangement, all of which will be fully described hereinafter and pointed out in the claim.

40 In the drawings forming a part of this specification, Figure 1 is a view showing my invention in use. Fig. 2 is a horizontal section. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a front view, and Fig. 5 is a sectional view on the line 5 5 of Fig. 2, and Fig. 6 shows a detail of construction.

45 In carrying out my invention I employ a case A, which is essentially circular in shape, and is provided with legs or supports *aa*, by means of which it is screwed upon any convenient portion of the printing-press the impressions of which it is to record. The case

also has a glass or celluloid front B, and directly back of said glass or celluloid front is the dial C, divided into one hundred points, 55 and every five points numbered. A main shaft D is journaled in the case and carries a pointer E at its forward end in front of the dial, and a ratchet-wheel F is mounted upon the rear end of said shaft. The operating-lever 60 G is loosely mounted upon this shaft D and projects through the case at one end, as shown at *g*, said projecting end being operatively connected with any suitable portion of the machine, so that at each impression the lever 65 will be depressed. This lever G carries a pawl H, which engages the ratchet-teeth F and moves the wheel step by step, and consequently the pointer, the pawl H being held in engagement with the wheel by a spring *h*. 70

The lever is returned by means of a spring I or weight I', or both, if desired, and the wheel F is held from reverse movement by means of the gravity-pawl K, engaging the teeth at the top. 75

The shaft D carries an arm L, which is adapted to engage a spur-wheel M, having ten spurs, said wheel M being mounted upon a shaft *m*, carrying a disk M' at the forward end, said disk resting behind the dial and carrying numerals "1" to "10" thereon, which numerals are exposed through an opening M<sup>2</sup> in the dial. Thus it will be understood that the ratchet-wheel and pointer make a complete rotation at each one hundred impressions, and at each rotation the arm L strikes one point of spur-wheel and moves it one space, exposing the numeral "1." At the next rotation the spur-wheel is again struck and the indicator-wheel shows the numeral "2," 80 and so on. The spur-wheel M carries a stud *m'*, which engages a similar spur-wheel N, mounted upon a tubular shaft *n*, turning on shaft D, and a dial N' is mounted upon the forward end of said shaft *n* and has the numerals "1" to "10" marked thereon, the same as M', and the dial also has another opening N<sup>2</sup> to expose such numerals. The spur-wheel M is intended for hundreds, and the wheel N for thousands, so that upon the tenth move of the wheel M the wheel N will be moved and expose the numeral "1" in the thousands-opening N<sup>2</sup>. 85 The spur N also carries a stud *n'*, which engages a spur-wheel O, mounted upon a shaft *o*, 100

said shaft carrying a disk O' at its forward end, similar to M' and N', and the dial has another opening O<sup>2</sup> to expose the numerals on the disk O'.

5 The disks M', N', and O' have the numerals "0 1 2 3," &c., thereon, and upon the dial over the opening M<sup>2</sup> is printed "Hundreds," "Thousands" over N<sup>2</sup>, and "Ten thousands" over O<sup>2</sup>, and in the drawings I have shown the  
10 numeral "5" through opening O<sup>2</sup> indicating five ten thousands, or fifty thousand. Through N<sup>2</sup> is shown "2," indicating two thousand, and through the opening M<sup>2</sup> is seen the numeral "5," and the pointer stands at "0," thus indi-  
15 cating that fifty-two thousand five hundred impressions have been made and registered.

The case has a suitable opening in the top, so that the pawls can be disengaged and the disk returned to zero whenever desired.

20 The lever G is preferably connected with the operating mechanism by means of a yielding connection P, and in order to limit the throw of the lever G, I employ the adjustable regulating-screws R R, mounted in ears or

lugs S S, projecting from the side of case upon 25 opposite sides of the seat g, as shown most clearly in Figs. 3 and 6.

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

The combination with the slotted case, of 30 the main shaft carrying a pointer at one end and a ratchet-wheel at the other, the lever, weighted at one end, and projecting outside the case at the other end, the arm or extension 35 on said lever, the spring-pressed pawl mounted upon said extension a spring connecting said extension and the interior of the case, the spur-wheels, the studs carried by said spur-wheels, the shafts upon which the 40 spur-wheels are mounted and the disks carried upon the opposite ends of said shafts, all arranged substantially as shown and described.

JAMES B. VANDERVORT.

Witnesses:

WILLIAM HOLTZ,  
WILLIAM M. CRANE.