

(No Model.)

H. S. HACK
CALENDAR.

No. 436,415.

Patented Sept. 16, 1890.

Fig. 1.

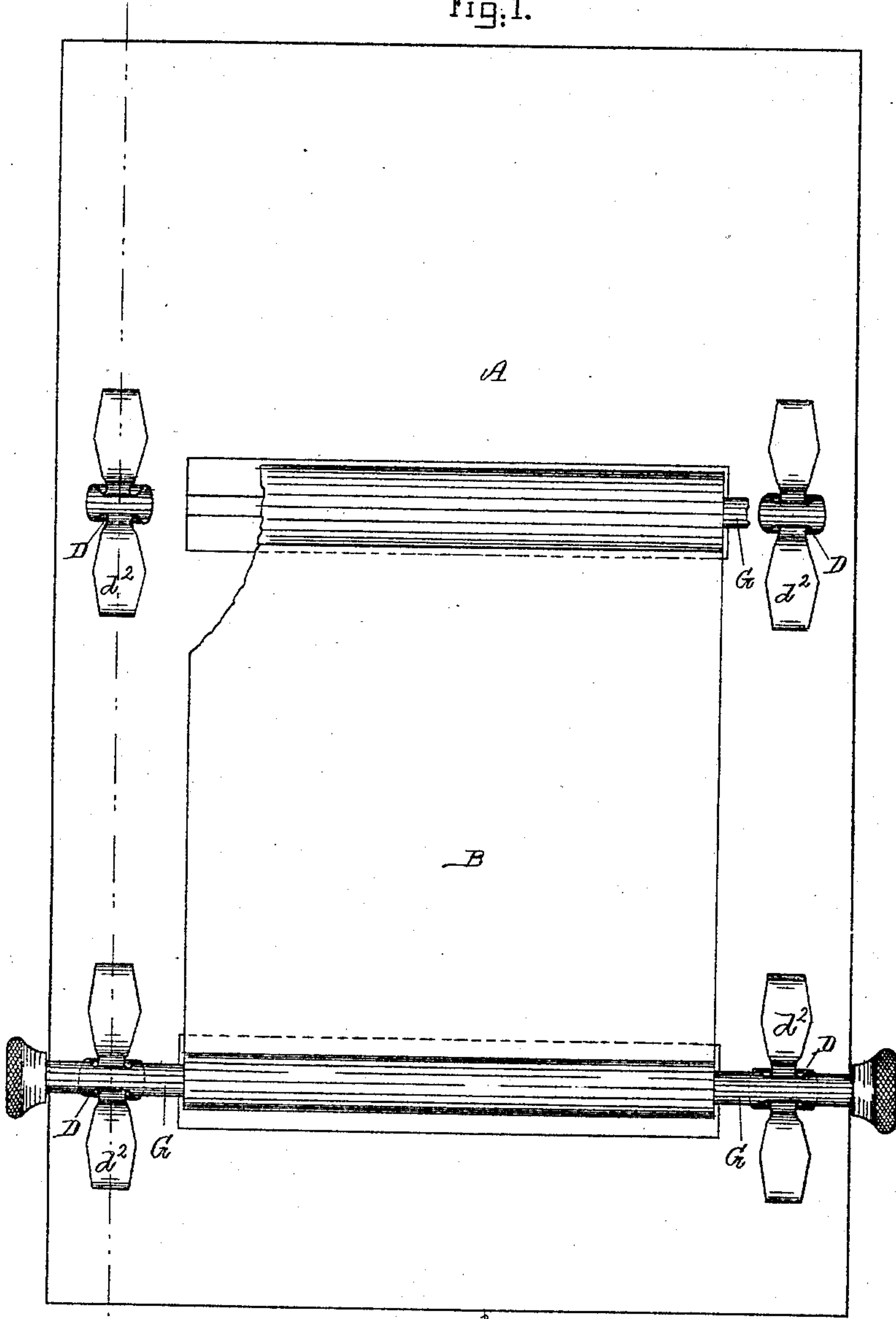


Fig. 2.

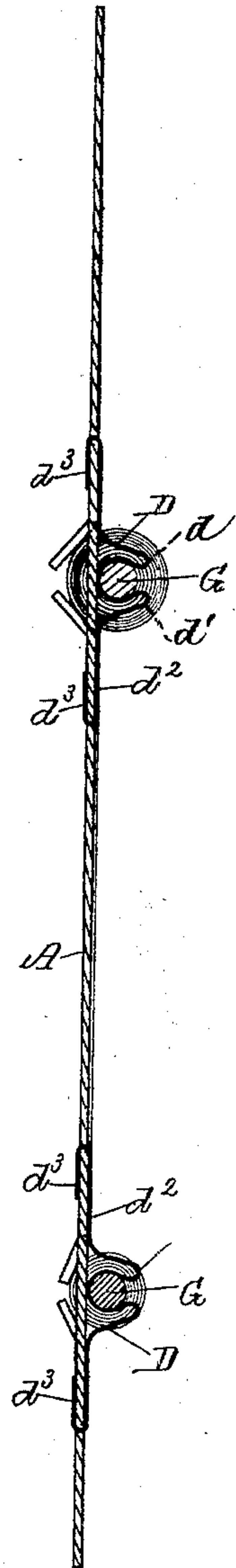


Fig. 3.

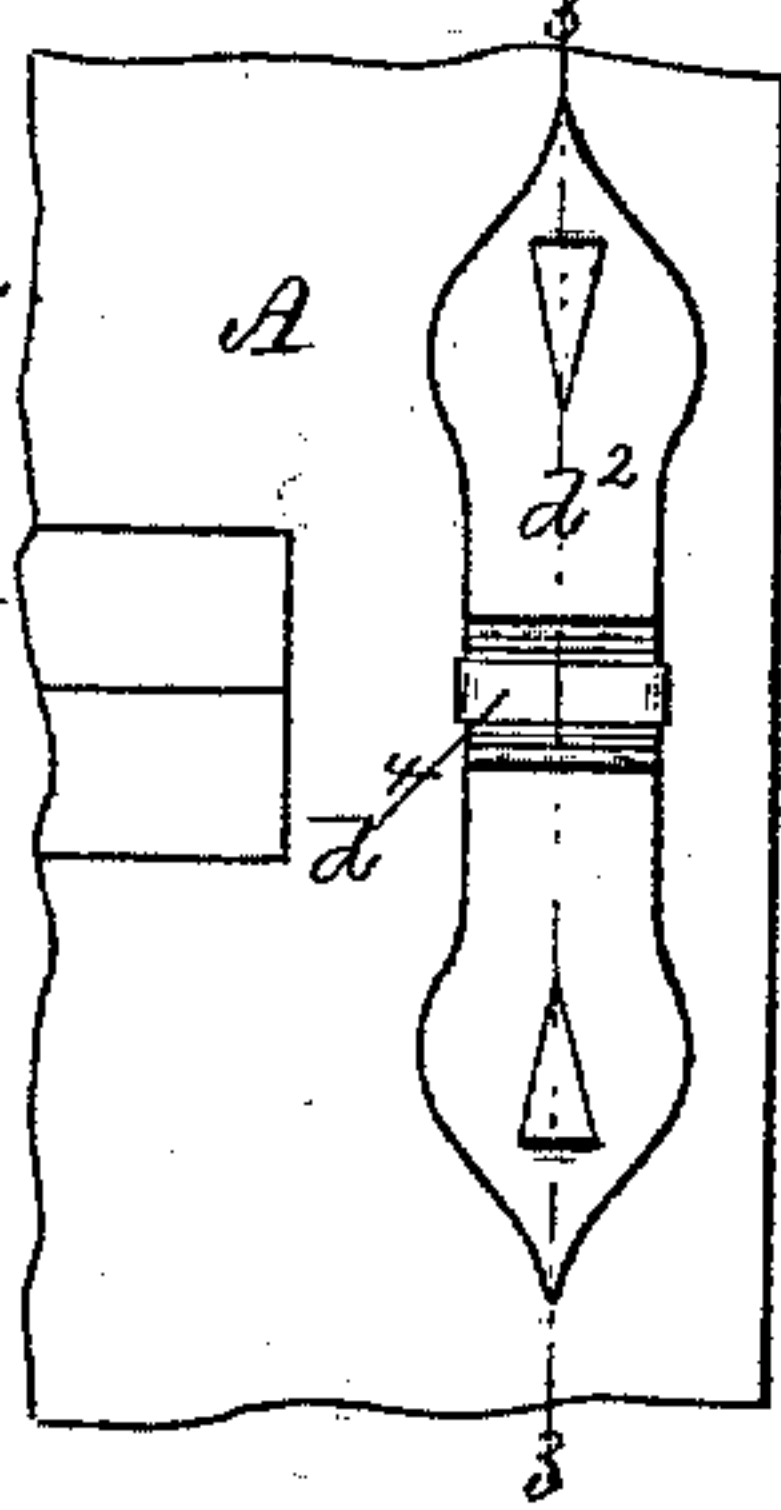


Fig. 4.

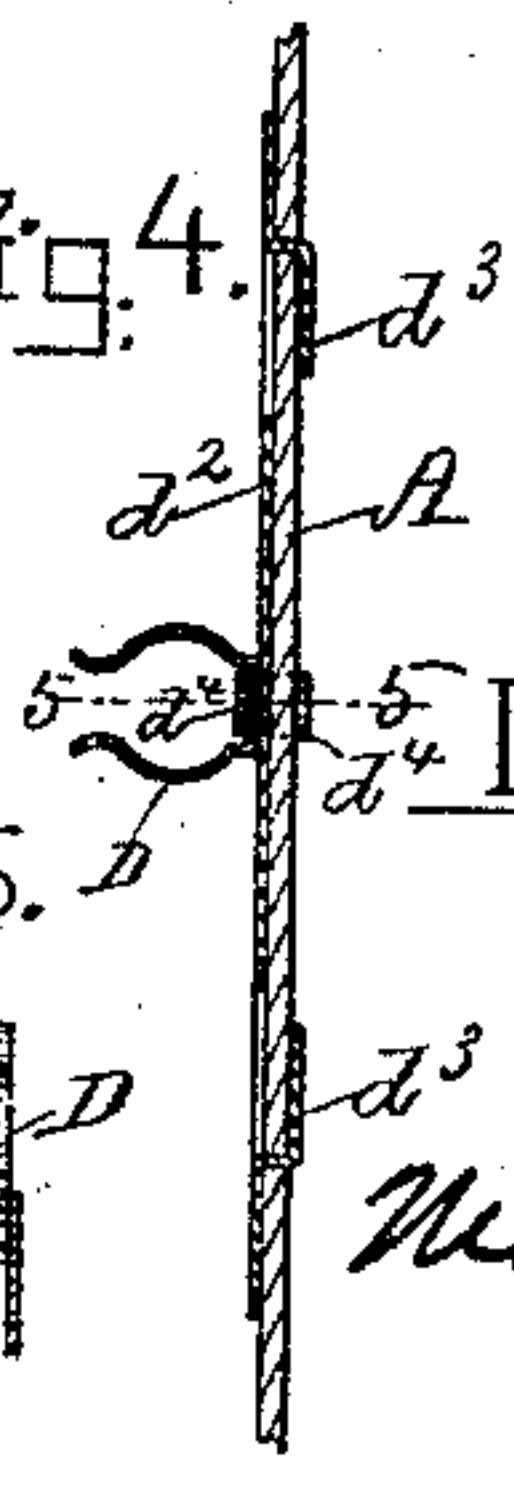


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY S. HACK, OF TAUNTON, MASSACHUSETTS.

CALENDAR.

SPECIFICATION forming part of Letters Patent No. 436,415, dated September 16, 1890.

Application filed March 31, 1890. Serial No. 345,956. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. HACK, of Taunton, in the county of Bristol and State of Massachusetts, have invented an Improved Calendar, of which the following is a specification, reference being had to the accompanying drawings, making a part hereof, in which—

Figure 1 is a plan, and Fig. 2 a section, on line 2 2 of Fig. 1, illustrating one form of my invention. Figs. 3 and 4 are a plan and section illustrating another form of my improved calendar. Fig. 5 is a section on line 5 5 of Fig. 4.

The calendar shown in Fig. 1 is in its general construction like that described in patents already issued to me, and my present invention relates primarily to a novel construction of the devices by which the spindles are held, but also to stiffening the back board upon which the spindles are mounted; and my invention consists in a spindle-holder with lips, between which the spindle can be crowded, and with prongs or legs by which it is held to the back board of the calendar. In order to stiffen the back board, which in many cases is essential, I combine with this device a stiffening-plate, and this combination constitutes a second feature of my invention.

In the drawings, A is the back board, and B the calendar-strip. (Shown mounted upon spindles G.) In that form of calendar shown the back board is slit clear through below the spindle G, and also by two short slits at the end of and across the long slit, all as fully described in a patent already issued to me.

Heretofore in all roll-calendars known to me the spindle-holders were necessarily applied after the spindle was in place, or else the spindle was in sections so that it could be thrust endwise through its holders; but my improved holder D is constructed with two lips $d d'$, so that the spindle with the calendar-strip B upon it can be pressed into place after the holders D are secured to the back board A, and yet be securely held, and this

is the main feature of my invention. When the back board A is a sheet of paper-board, it usually requires to be re-enforced, more especially if slit, as above referred to, and the second feature of my invention is the open holder D, combined with a re-enforcing strip d^2 , having prongs d^3 , by which it is fastened to the back board A. When the holder D is of sheet-brass, the re-enforcing strip d^2 may be integral with the holder D and prongs d^3 , as in Figs. 1 and 2, where the prongs d^3 connect the strip d^2 to the back board A, and the strip d^2 serves to secure the holder D in place, the holder D and the strip d^2 being in one piece; but when the holder D is of sheet-steel tempered, as in Figs. 3 and 4, the prongs d^3 cannot be made integral with the holder D, and the prongs d^3 of the re-enforcing strip d^2 serve only to connect the strip d^2 to the back board A, while the holder D of steel is connected to the strip d^2 by a staple d^4 , whose legs preferably pass through back board A, and serve to connect the holder D and strip d^2 with back board A, as shown in Figs. 3, 4, and 5. The larger sizes of my improved calendar are not made as shown in Figs. 3, 4, and 5.

What I claim as my invention is—

1. In a roll-calendar, the back board A and spindle-holders D, provided with the lips $d d'$ and prongs d^3 , by which the holders are held to the back board, the spindle-holders being arranged upon the back board to receive the spindle of a roll-calendar, substantially as described.

2. In a roll-calendar, the back board A and spindle-holders D with the lips $d d'$, combined with the re-enforcing strip d^2 , the holders D and strips d^2 being held to the back board by prongs, and all the parts being arranged substantially as described.

HENRY S. HACK.

Witnesses:

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