

(No Model.)

R. C. FAY.
SPINDLE BOLSTER.

No. 332,067.

Patented Dec. 8, 1885.

Fig:2.

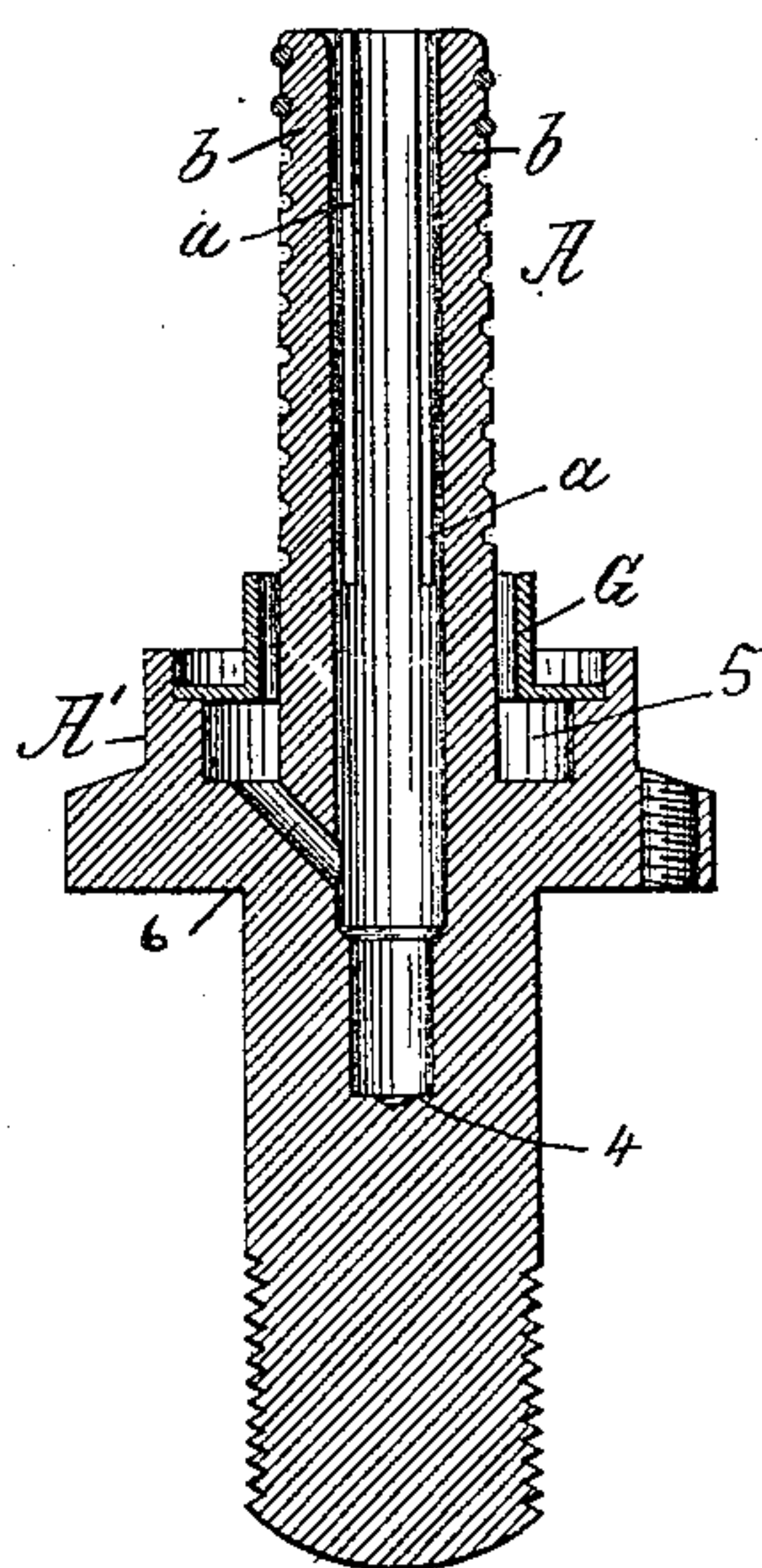


Fig:1.

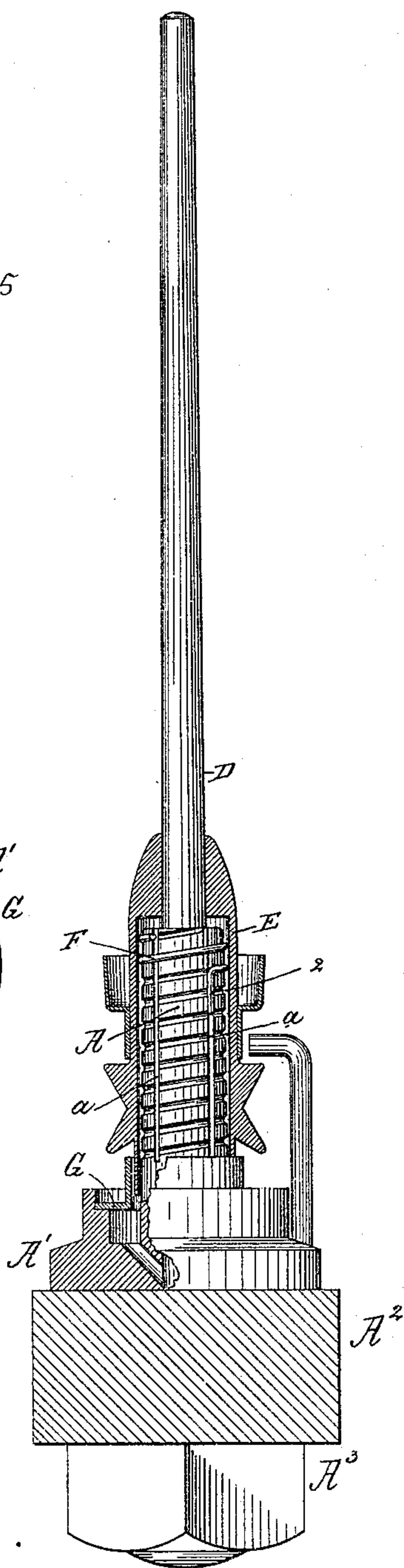


Fig:4.

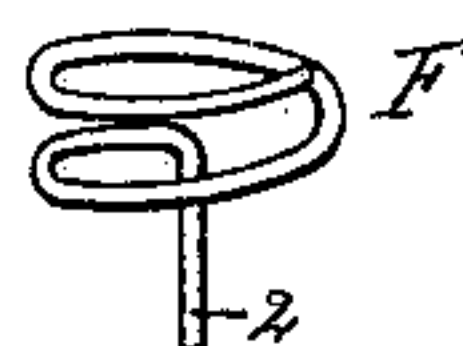
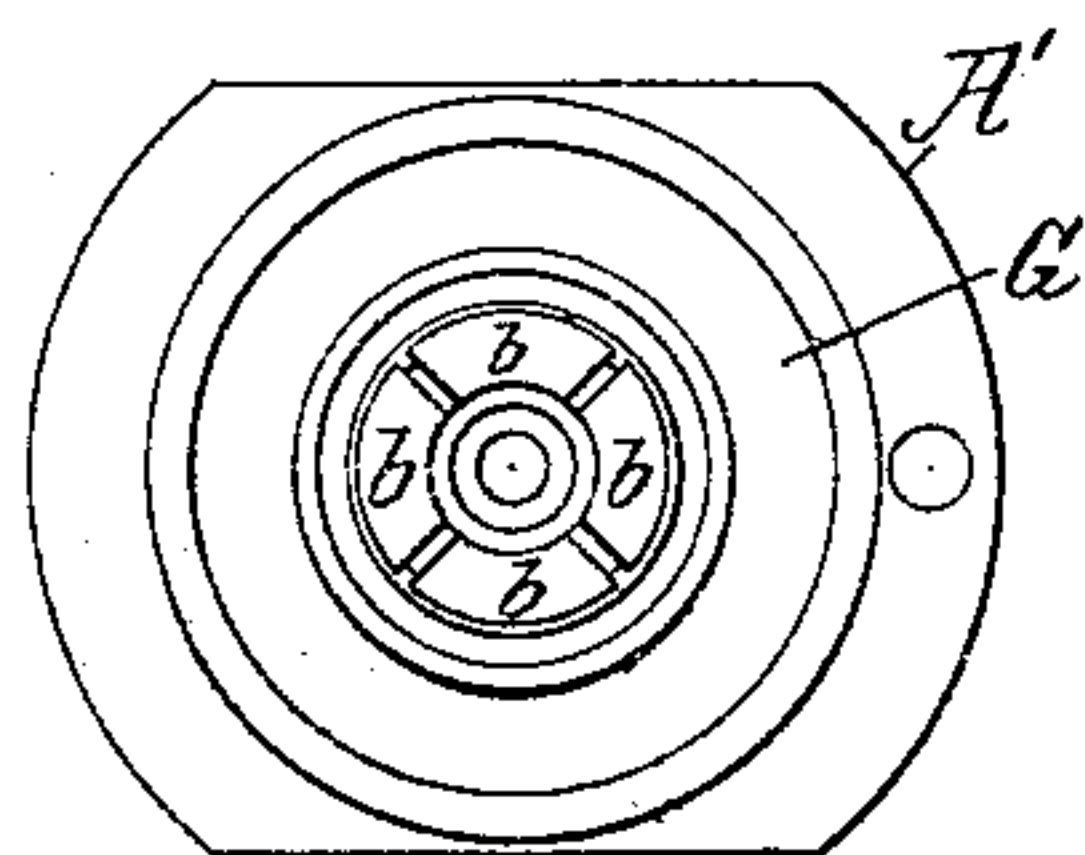


Fig:3.



Witnesses.

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UNITED STATES PATENT OFFICE.

RIMMON C. FAY, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO GEORGE DRAPER & SONS, OF SAME PLACE.

SPINDLE-BOLSTER.

SPECIFICATION forming part of Letters Patent No. 332,067, dated December 8, 1885.

Application filed November 24, 1884. Serial No. 148,651. (No model.)

To all whom it may concern:

Be it known that I, RIMMON C. FAY, of Hopedale, county of Worcester, State of Massachusetts, have invented an Improvement in Spindle-Bolsters, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to provide a serviceable and efficient yielding support for a spindle.

My improved support is composed, essentially, of a rigidly-held tube slotted from its top downward, leaving separate arms to receive against their inner concaved faces the exterior of the spindle, the said arm being surrounded by a yielding holder, the tendency of which is to retain the arms of the spindle-support in a yielding manner, and to make them fit the spindle more or less snugly.

Figure 1 in elevation represents a spindle and its support embodying my invention, the base or flange of the support being partially broken out to show the construction of the same, the sleeve-whirl of the spindle and the usual rail being shown in section while the nut below it is in elevation. Fig. 2 is a vertical section of the spindle-support. Fig. 3 is a top view of the said support, and Fig. 4 a separate view of the spring-holder to clamp the arms of the support.

The bolster-support is composed of a tube or sleeve-like portion, A, extended upward from a base, A', which rests on a rail, A², of usual construction, the lower end of the base below the rail receiving the nut A³. The tube or sleeve-like portion A is provided with two or more slots, *a a*, from its top downward, the slits separating the bolster into independent arms *b b*. (See Figs. 2 and 3.)

In the present instance of my invention the tube or sleeve-like portion is shown as provided with four slots, *a*, thus making four independent arms, *b*, between which that part of the spindle D below its junction with the whirl E is inserted, the said arms having sufficient elasticity to yield slightly to the spindle in its rotation, thus enabling the spindle to run steadily and to adapt itself to its load, although unevenly distributed.

To prevent any undue or excessive movement of any one arm *b* by means of strain exerted by the spindle, I have provided the arms externally with a spring clamp or holder, F, made, as herein shown, of wire in the form of a coiled spring, (see Fig. 4,) the wire at one end of the spring being bent, as at 2, to occupy a position substantially parallel with relation to the center line of the spring, so as to enter one of the said slots *a*, as in Fig. 1.

To enable the clamp or holder to embrace the arms more or less closely, so as to require greater or less strain on the spindle to move the arms, I have made the exterior of the said tube or sleeve tapering from bottom to top, and have provided the exterior surface thereof with a spiral thread or groove, *h*, in which the clamp or holder is placed, rotation of the clamp or holder on the said tube or the arms to move it downward thereon from the top toward the lower end of the arms causing them to be held more snugly or be drawn closer together. The foot of the spindle rests against the portion 4 of the support, and oil to lubricate the spindle is inserted in the channel 5 and the oil-hole 6. The channel and oil therein is protected from dust and dirt by the removable cap or cover G. (Shown in section at the left of Fig. 1.) In some classes of work the holder F may be altogether omitted. Wear between the arms and spindle may be compensated for by the rotation of the holder on the arm, the end 2 of the holder being lifted from the slot *a* when the holder is to be rotated.

I do not claim a bolster open at both ends, located above the whirl of the spindle, and split for part of its length to form arms which are surrounded by and kept from yielding by a nut, as in United States Patent No. 227,066.

I claim—

1. A spindle-support containing a tube or sleeve slotted entirely through its vertical wall to form independent arms, combined with a yielding spring-like holder embracing the said arms externally, but permitting the arms to yield laterally, substantially as described.

2. A spindle-support containing a tube or sleeve slotted entirely through its vertical wall to form independent arms, and made ta-

pering from its bottom upward toward its top, combined with the yielding spring-like holder, to operate substantially as described.

3. A spindle-support containing a tube or
5 sleeve slotted entirely through its vertical wall to form independent arms, and made tapering from its bottom upward toward its top, and provided externally with a thread or groove, combined with a yielding spring-like
10 holder, to operate substantially as described.

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

RIMMON C. FAY.

Witnesses:

F. J. DUTCHER,
GEO. A. DRAPER.