

(No Model.)

W. T. CARROLL.  
SPINDLE BOLSTER.

No. 333,056.

Patented Dec. 22, 1885.

Fig:1.

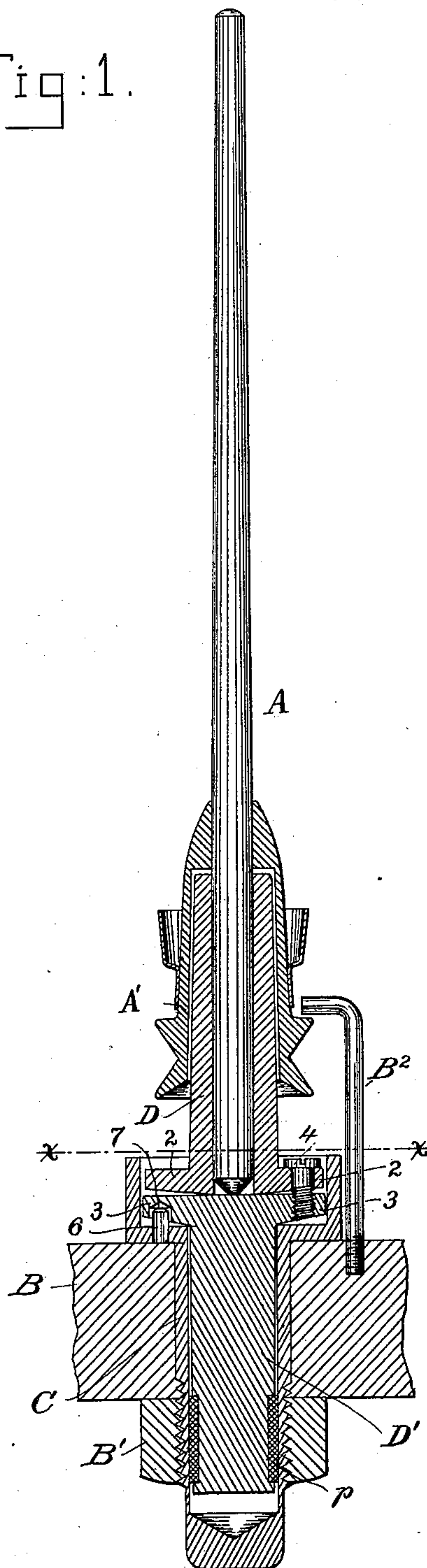
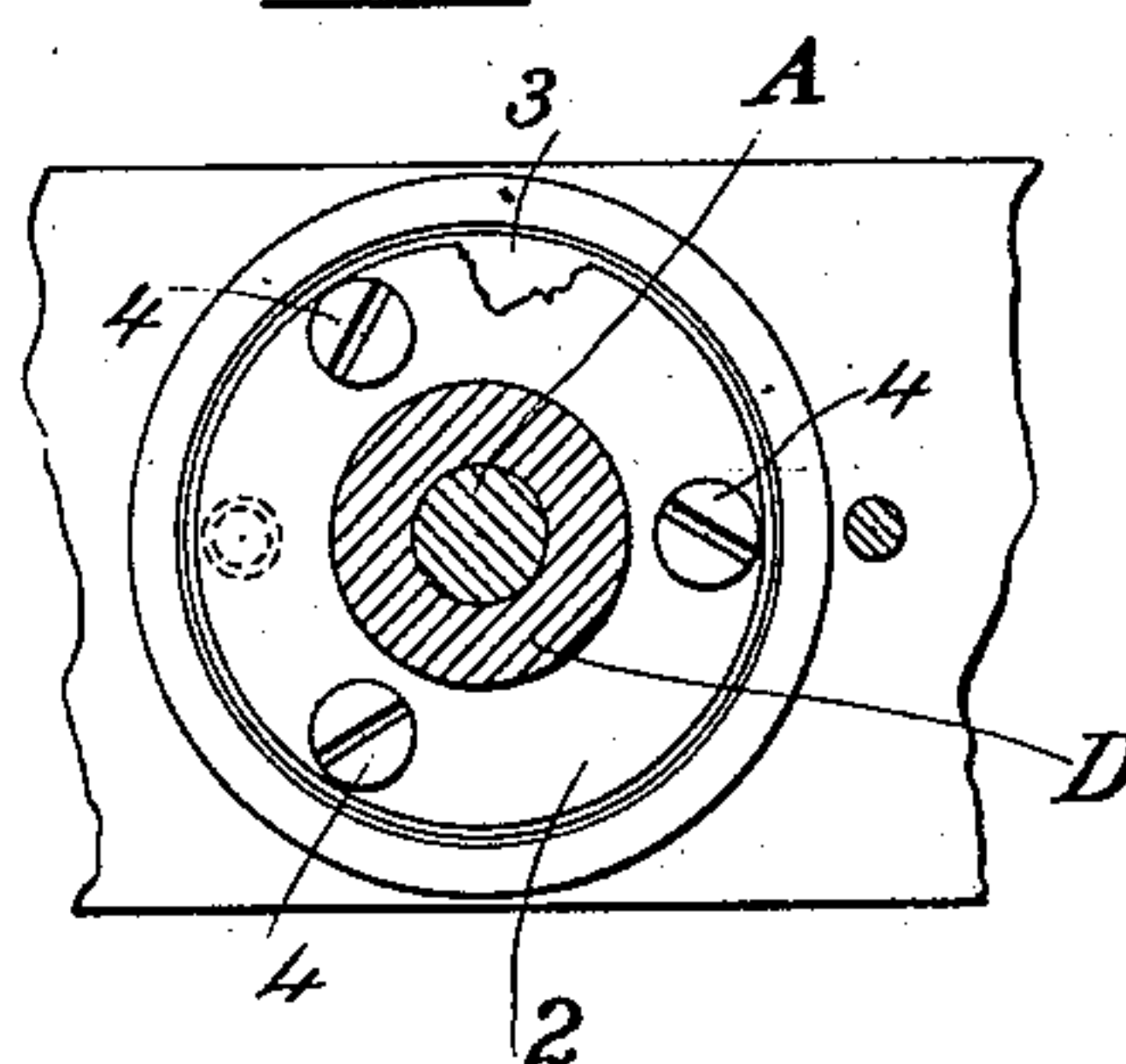


Fig:2.



Witnesses.

*John F. Nelson*  
*John F. C. Prinkert*

Inventor.

*William T. Carroll*  
*by Crosby & Gregory attys.*



# UNITED STATES PATENT OFFICE.

WILLIAM T. CARROLL, OF WORCESTER, MASSACHUSETTS.

## SPINDLE-BOLSTER.

SPECIFICATION forming part of Letters Patent No. 333,056, dated December 22, 1885.

Application filed January 5, 1885. Serial No. 151,990. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM T. CARROLL, of the city and 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.

In another application (Case A) filed currently herewith, Serial No. 152,644, I have shown a bolster adapted to take the place of the supporting case and bolster such as usually employed in connection with sleeve-whirl spindles, and in that application the bolster is shown as provided with a foot and a central collar all in one integral piece, and the lower end of the foot is forked to embrace a pin or projection of a locking-nut.

In this my present invention the bolster and its foot are made in two pieces, the division being made through the central collar, and three screws are employed to adjustably connect the spindle-receiving part of the bolster with the foot of the bolster to permit the spindle-receiving part of the bolster to be adjusted independently of the foot of the same, the contact-faces of the flanges being so shaped as to rock or turn one on the other. The bolster is kept from rotation with the spindle by a pin, which enters a notch in the flange of the foot part of the bolster.

Figure 1 in elevation represents a spindle of the sleeve-whirl class, the said sleeve-whirl, together with the bolster, oil-well, rail, and bushing, being in section; and Fig. 2 is a cross-section in the line  $x x$ , Fig. 1.

The spindle A, its attached sleeve-whirl A', the rail B, and nut B', and hook B<sup>2</sup> are and may be of usual construction. The rail has the oil-well C placed in it, and held in place by the nut B', the under side of the neck of the oil-well resting on the top of the rail.

The bolster is divided into two parts—the pintal or spindle-receiving part D, a homogeneous piece of metal made stiff and rigid, and the foot part D'—the part D having a flange, 2, and the foot part a flange, 3, the under side of the flange 2, as herein shown, being rounded or made convex to enable the spindle-receiving part of the bolster to rock slightly on or with relation to the top of the flange of the

foot part, the said two flanges being connected by three screws, (marked 4 4 4.) These screws permit the adjustment of the spindle-receiving part of the bolster independently of the foot part, to provide for difference in band-pull or other usual or working strains.

The oil-well has a pin, 6, that enters a hole, 7, in the flange 3, to restrain the rotation of the bolster with the spindle; but it is obvious that the pin might be on the disk and enter a notch of the oil-well, and yet effect the same result.

Dividing the bolster, as described, at the junction of the spindle-receiving portion and the foot therefor permits the spindle-receiving part D, which only is subjected to very considerable wear, to be renewed and replaced readily and cheaply with a new or unworn part, and, further, by supporting the end of the spindle on the top of the flange of the foot the top of the flange may be dressed off to deface any wear-marks, and by dividing the bolster into two parts the oil has ready access to the foot of the spindle. The foot part of the bolster enters the oil-well loosely, where it will be free to move entirely to accommodate the spindle to its load. The foot portion D' of the bolster has a loose fit in the oil-well C, and preferably will be surrounded by flexible or yielding packing  $p$ .

I claim—

1. The oil-well closed at its lower end, the bolster provided with a foot and placed in the said oil-well loosely, and a pin or projection to restrain the rotation of the bolster in the oil-well, combined with a sleeve-whirl spindle, the pintle of the spindle entering a hole in the upper part of the bolster, the latter being surrounded and inclosed by only the sleeve-whirl, substantially as described.

2. The oil-well and means to support it, combined with the bolster D, provided with a flange, a foot part, D', also provided with flange and entered into the oil-well, and with means, substantially as described, to adjustably connect the upper part of the bolster with the foot part thereof, substantially as described.

3. The oil-well and the bolster composed of the upper portion, D, and the detachable foot portion D', and adjusting-screws to connect them, combined with means, substantially as

described, to restrain the rotation of the bolster in the oil-well, as set forth.

4. The oil-well, the bolster-foot extended therein loosely, and provided with a flange on the top of which the spindle rests, and the upper portion, D, of the bolster having a flange at its lower end, which is adapted to rest on the flange of the foot, and means, substantially as described, to connect the said two flanges together, combined with the spindle and with an elastic packing applied between the exterior of the foot and the interior of the oil-well, substantially as described.

5. The spindle, the oil-well, the foot portion

D' of the bolster, and a pin or projection to restrain the bolster from rotation in the oil-well, combined with the sleeve-like portion D, to receive and form a lateral bearing for the spindle, and with screws to adjust the said portion D upon the foot portion, for the purposes set forth.

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

WILLIAM T. CARROLL.

Witnesses:

E. D. BANCROFT,  
WM. J. WOODS.