(No Model.)

A. SCHEID.

SPINDLE.

No. 574,948. Patented Jan. 12, 1897.

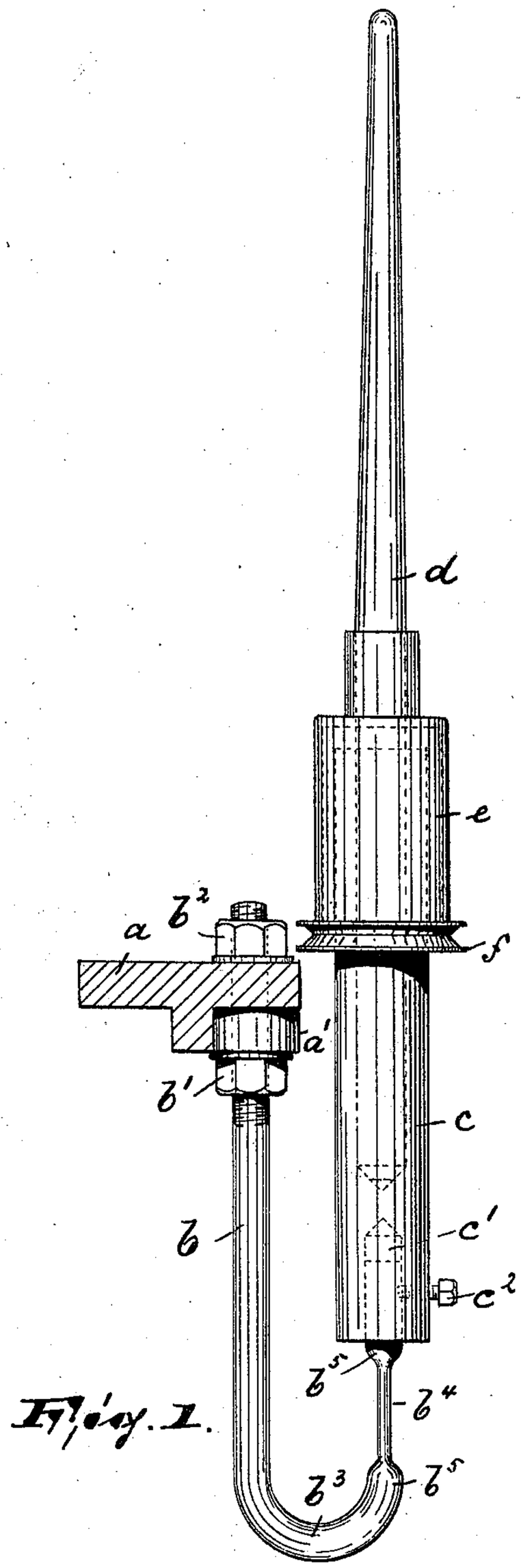

Fig. 1.

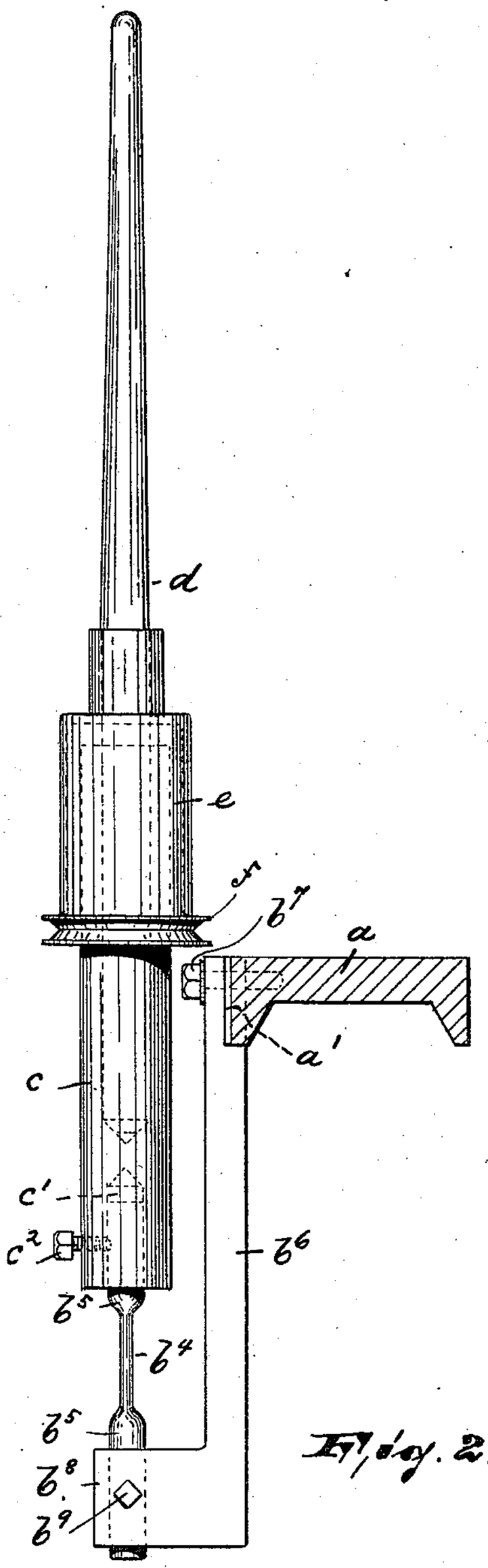

Fig. 2.

WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

ADAM SCHEID, OF HARRISON, NEW JERSEY, ASSIGNOR TO THE SAWYER SPINDLE COMPANY, OF PORTLAND, MAINE.

SPINDLE.

SPECIFICATION forming part of Letters Patent No. 574,948, dated January 12, 1897.

Application filed November 17, 1896. Serial No. 612,516. (No model.)

To all whom it may concern:

Be it known that I, ADAM SCHEID, a citizen of the United States, residing in Harrison, Hudson county, and State of New Jersey, have invented certain new and useful Improvements in Spindles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my present invention is to provide a spindle-support for spinning-spindles of simple, strong, and durable construction, and by means of which the spindle and its supporting-tube are arranged on a flexible rod supported by or formed on a brace, which in turn is flexibly mounted on the spindle-rail.

The invention consists in the improved spindle-support, its flexibly-mounted supporting-brace, and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, Figures 1 and 2 are side elevations illustrating two forms of my improved spindle-support.

To the spindle-rail a is secured a downwardly-projecting brace b, as in Fig. 1, or b^6, as in Fig. 2. In Fig. 1 said brace is screw-threaded at its upper end and engaged by the nuts b^2 and b', arranged above and below the rail, with an intermediate collar or washer a' between one of the said nuts and the said rail, by means of which the said brace can easily be adjusted on the rail to thus regulate the flexible connection between the latter and the brace. The lower end of said brace is substantially U-shaped, as at b^3, and the upwardly-projecting shank b^5 thereof is provided with an annular groove b^4, thus reducing the diameter of the said shank and rendering it flexible, as will be manifest. The tube c, containing step and bolster bearing, is provided in its lower portion with a vertical bore or hole c', adapted to be engaged by the upper portion of the shank b^5, and is adjustably secured thereto by means of the set-screw c^2. In the tube c is arranged the spindle d, provided with the sleeve e and whirl f, constituting the motion-receiving means, as will be manifest.

In Fig. 2 the brace b^6 is secured at its upper end to the side of the rail a by means of the bolt b^7 and intermediate elastic washer. The lower end of said brace is provided with a horizontal projection b^8, penetrated by a vertical hole, in which is adjustably arranged, by means of the set-screw b^9, the rod b^5, having an annular groove b^4. Said rod b^5 is the equivalent of the shank b^5 in Fig. 1, and its connection with the tube c is precisely the same as that described in reference to Fig. 1.

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

1. The combination with the spindle-rail, of a downwardly-extending brace flexibly mounted on said rail, a vertical rod carried by said brace and provided with an annular groove, a tube adjustably arranged on said rod and containing step and bolster bearing, and a whirl-driven spindle in said tube, all said parts, substantially as and for the purposes described.

2. The combination with the spindle-rail, of a downwardly-extending brace flexibly mounted on said rail, a lug projecting from the lower end of said brace and provided with a vertical bore or hole, a rod adjustably secured in said bore or hole and having its central portion reduced in diameter, a tube, containing step and bolster bearings, adjustably secured on said rod, and a whirl-driven spindle in said tube, all said parts, substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of October, 1896.

ADAM SCHEID.

Witnesses:

ALFRED GARTNER,

WM. D. BELL.