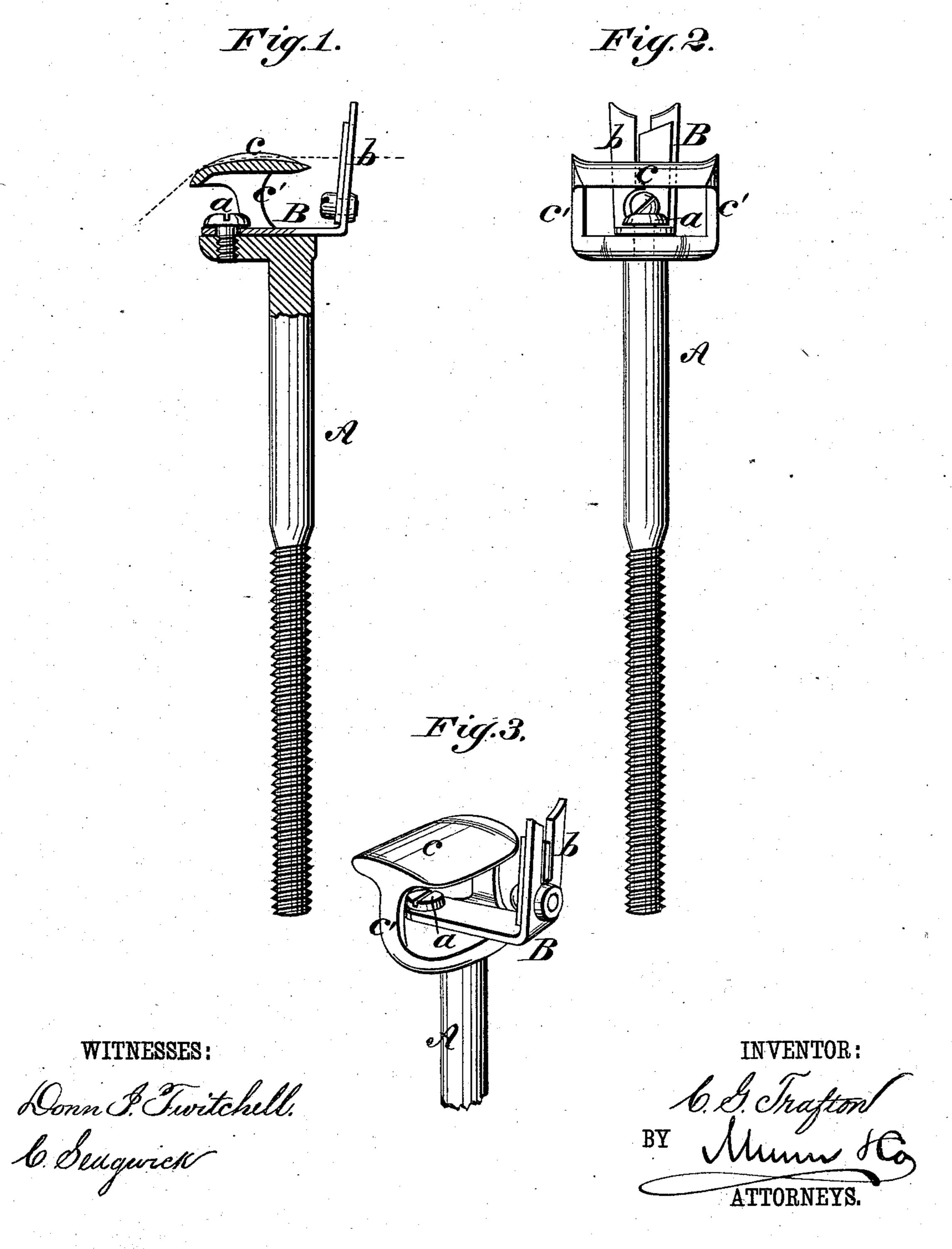
(No Model.)

C. G. TRAFTON.

Thread Guide for Spooling Machines.

No. 238,992.

Patented March 15, 1881.



United States Patent Office.

CHARLES G. TRAFTON, OF SLATERSVILLE, RHODE ISLAND.

THREAD-GUIDE FOR SPOOLING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 238,992, dated March 15, 1881.

Application filed November 11, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES G. TRAFTON, of Slatersville, in the county of Providence and State of Rhode Island, have invented a new and Improved Thread-Guide for Spooling-Machines, of which the following is a specification.

My improvements relate to thread-guides for use in spooling machines, to guide the thread as it runs from the bobbin to the larger spool. A self-adjusting guide for that purpose is shown in the Letters Patent granted to me July 27, 1880.

The object of my present invention is to relieve the self-adjusting guide of all pressure tending to increase the friction of its movement, so that the action shall be most delicate; and the invention consists in a guide-plate pivoted to a supporting-rod that is formed with the friction-surface over which the yarn runs, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a sectional side elevation of my improved thread-guide. Fig. 2 is an elevation of the same at right angles to Fig. 1, and Fig. 3 is a top perspective view.

Similar letters of reference indicate corresponding parts.

A is the supporting-rod, fitted for being 30 screwed into the rail of the spooling-machine, and formed with a flanged head.

B is the guide-plate, attached upon the head of rod A by screw a, so that the plate may swing freely in a horizontal plane. The guide-plate is preferably made of sheet-steel stamped to shape, and is formed at its outer end with a flange, b, that is slotted for the yarn to pass through.

The rod A is formed or fitted with a curved cap-piece, c, supported on the head of the rod 40 and above the plate B by side arms, c', which also limit the swinging movement of the guidepiece. The cap c is the friction-surface over which the yarn runs, and, if desired, may be made in tubular or other form.

In use the yarn from the bobbin passes over the cap c, and through the slot of flange b, to the spool on which it is to be wound. The guideplate readily adapts itself to the direction of the yarn as the spool increases in size, so that the yarn passes in a direct line from bobbin to spool. The downward pressure of the yarn is taken on the surface of cap c, so that the guide-piece is relieved of such pressure. Its action is therefore most delicate, the draft on the yarn is equal at all times, and there is no tendency to wear a groove in the side of the yarn-slot.

This construction furnishes a guide that is durable and perfectly self-adjusting when used 60 with any size of yarn.

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

The combination, with the rod A, having a 65 flanged head and a cap-piece, c, supported by arms c', of the guide-plate B, secured to head by screw a, and provided with the slotted flange b, arranged with respect to the cap-piece as shown and described.

CHARLES G. TRAFTON.

Witnesses:
ERNEST B. WOOD,
ISAAC T. HOLMAN.