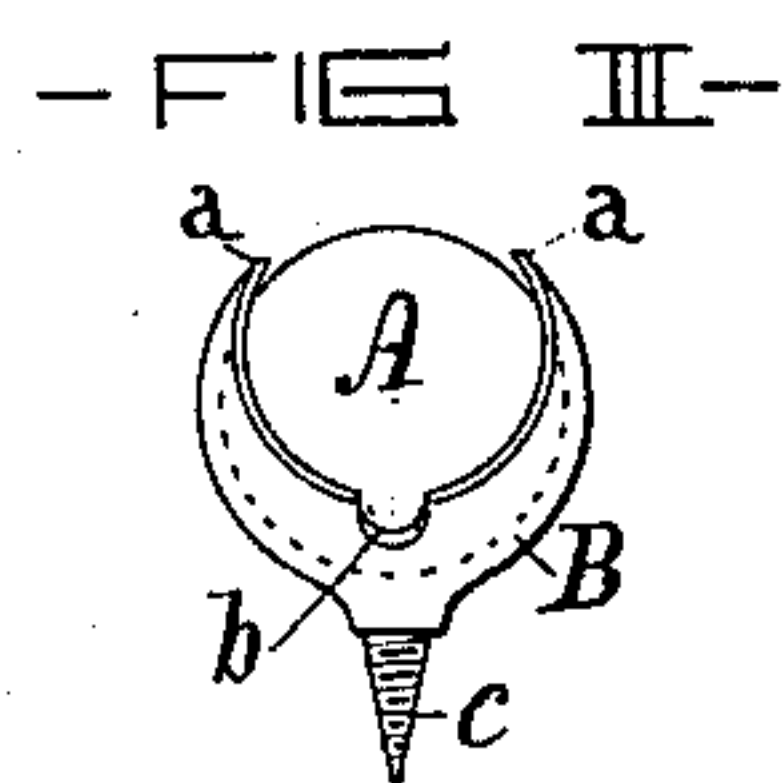
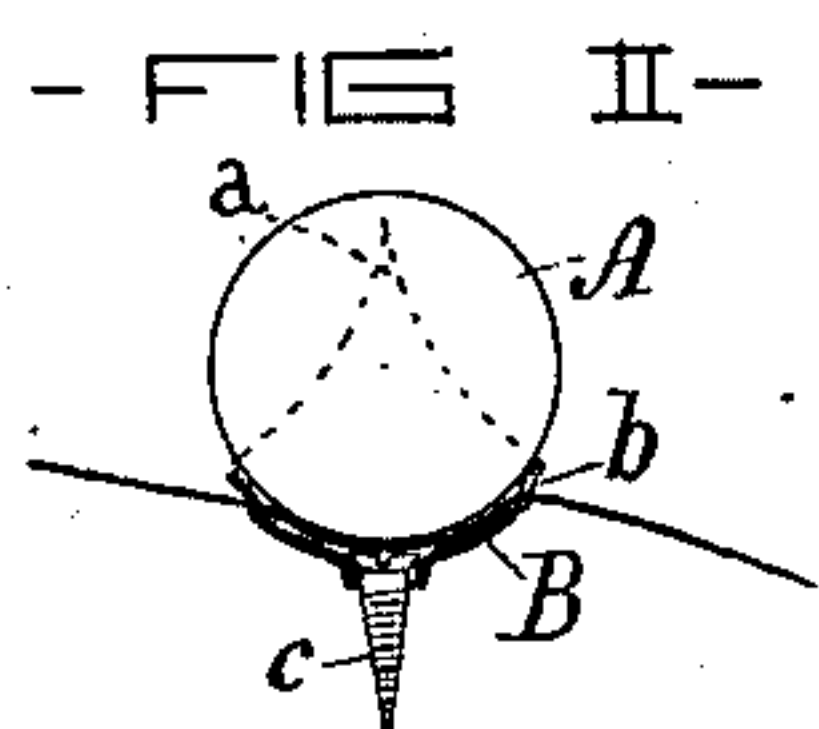
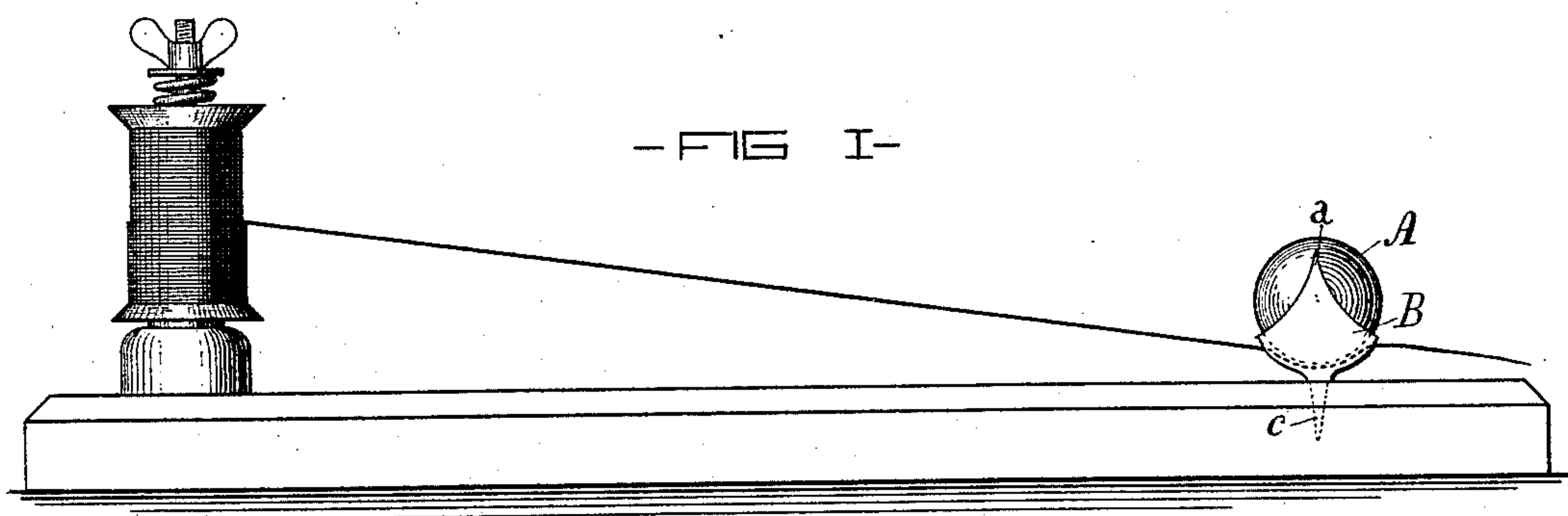


(No Model.)

E. A. SCHOLFIELD.  
THREAD TENSION DEVICE.

No. 303,325.

Patented Aug. 12, 1884.



- WITNESSES -

*Daniel Fisher*  
*Chas. B. Casaday*

- INVENTOR -

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# UNITED STATES PATENT OFFICE.

EDWIN A. SCHOLFIELD, OF WESTERLY, RHODE ISLAND.

## THREAD-TENSION DEVICE.

SPECIFICATION forming part of Letters Patent No. 303,325, dated August 12, 1884.

Application filed November 19, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN A. SCHOLFIELD, of Westerly, of the county of Washington and State of Rhode Island, have invented certain  
5 Improvements in Tension Devices, of which the following is a specification.

This invention relates to an improved device adapted for application to shuttles, sewing, and other machines, to place a regular and  
10 constant tension on a running thread.

In the accompanying drawings, forming a part hereof, Figure I illustrates one of the many uses to which my invention may be applied. Fig. II is a partly sectional view of  
15 the invention. Fig. III is an exterior view of the invention as seen from a different point.

A is a spherical weight, and B an open shell with spherical bottom, in which the weight A is confined. The pointed sides *a* of the shell  
20 B are closed around the weight, so as to prevent its removal, but sufficient space is left to admit of the weight being easily revolved and slightly elevated. The shell B is provided with grooves *b*, to guide the thread to and from  
25 the device and retain the thread directly under

the center of the ball, and it is perforated at its under side for the holding-screw *c*.

In Fig. I of the drawings the device is shown as applied to a thread running from a spool or bobbin; but it may be used in con- 30  
nection with a shuttle or any machine where a running thread is to be held at a constant tension.

I am aware that loose spherical weights have been used in various devices to give ten- 35  
sion to cords and threads, and I do not therefore claim, broadly, a weight inclosed in a holder; but

What I do claim is—

In a tension device, a spherical weight 40  
inclosed in a spherical shell open at the top, and having overlapping sides to limit the upward movement of the weight therein, grooves to guide the thread, and a central perforation, combined with a holding-screw seated in the 45  
said perforation, substantially as specified.

EDWIN A. SCHOLFIELD.

Witnesses:

J. HOWARD MORGAN,  
EUGENE B. PENDLETON.