

(No Model.)

W. SLADE.

FRICTION ATTACHMENT FOR SPOOL CREELS.

No. 447,496.

Patented Mar. 3, 1891.

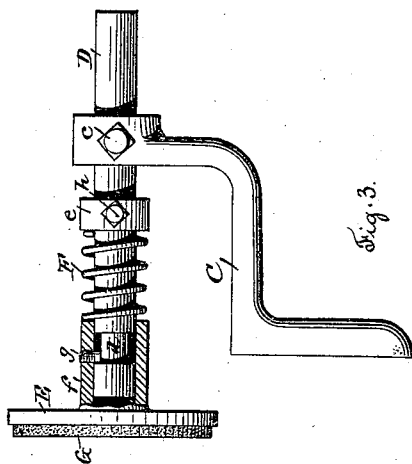


Fig. 3.



Fig. 4.

Fig. 1.

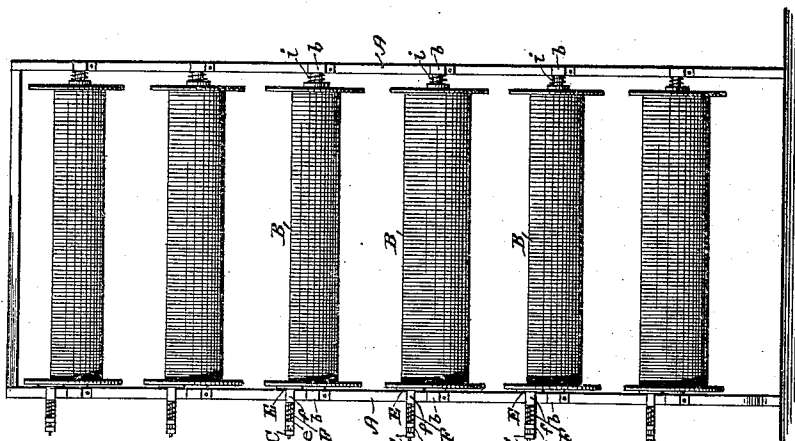
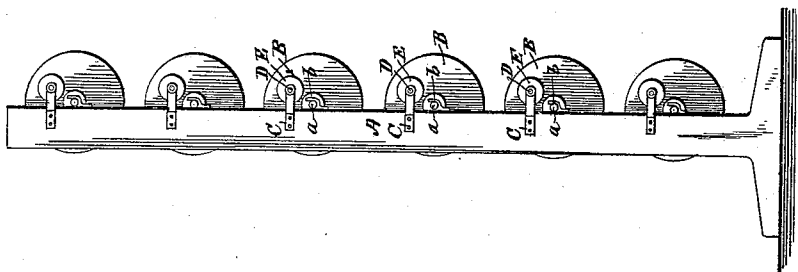


Fig. 2.



Witnesses
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WALTER SLADE, OF PASCOAG, RHODE ISLAND.

FRICITION ATTACHMENT FOR SPOOL-CREELS.

SPECIFICATION forming part of Letters Patent No. 447,496, dated March 3, 1891.

Application filed April 14, 1890. Serial No. 347,859. (No model.)

To all whom it may concern:

Be it known that I, WALTER SLADE, residing at Pascoag, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Friction Attachments for Spool-Creels, of which the following is a specification.

My invention consists in the improved application of friction to the heads of the spools in the creel and in the improved construction of the friction device.

Figure 1 represents a front elevation of a creel for dresser-spools, showing the application of my improved friction device to the outer side of the head of the spool. Fig. 2 represents a side elevation of the same. Fig. 3 represents a side elevation and partial section showing the approved construction of the friction device. Fig. 4 represents a spring which may be placed upon the journal of the spool at the end opposite the friction-head.

In the accompanying drawings, A A represent the opposite side standards of the creel, to one edge of which are attached the bearing-brackets *b b* for the journals *a* of the spools B. To the outer side of one of the standards A are attached the brackets C, which are adapted to support a fixed cylindrical bar D, the said bar being made adjustable in its holding-bracket by means of the set-screw *c*. The inner end of the bar D is provided with an annular recess *d*, and upon the recessed inner end of the bar is placed the disk E, provided with a hub *f*, which loosely fits the bar D, and the disk E is held upon the bar D by means of the screw *g*, the point of which enters the recess *d*, thus allowing a limited movement of the disk back and forth upon the bar. Upon the bar D is also placed the sliding collar *e*, which is held adjustably upon the bar by means of the set-screw *h*, and between the collar *e* and the end of the hub *f* of the disk E upon the bar D is placed the

spiral spring F, which serves to press the disk E forward upon the bar.

I have preferred to have an annular recess *d* made in the bar, so that the disk E can be turned upon the same; but a longitudinal groove in the bar can be employed which will not admit of the turning of the disk upon its axis. The disk E is provided with a facing G, of leather or other suitable frictioning material, which bears against the head of the spool, as shown in Figs. 1 and 2, and the required degree of pressure upon the same may be regulated by the proper adjustment of the collar *e*. The friction-head E G is so arranged and held as to bear upon the head of the spool eccentrically of its axis, as shown in Fig. 2. Upon the journal *a* at the opposite end of the spool from the friction-head is loosely placed the spring *i*, which serves to press against the end of the spool from the bearing-bracket *b*; but the spring *i* can be dispensed with, if preferred.

I prefer to make the friction-head revoluble upon its holding-bar, thus tending to wear the engaged frictional surfaces evenly.

I claim as my invention—

1. A spool-creel provided with an adjustable revoluble friction-head adapted to press eccentrically against the head of the inserted spool, substantially as described.

2. The combination of the eccentrically-arranged sliding friction-head, the supporting-bar, the adjustable collar, and the operating-spring, substantially as described.

3. The combination, with the friction-head adapted to press eccentrically against one head of the spool, of a spring placed upon the journal of the opposite end of the spool, substantially as described.

WALTER SLADE.

Witnesses:

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