

T. F. TAFT.
Spool.

No. 218,646.

Patented Aug. 19, 1879.

Fig. 1.

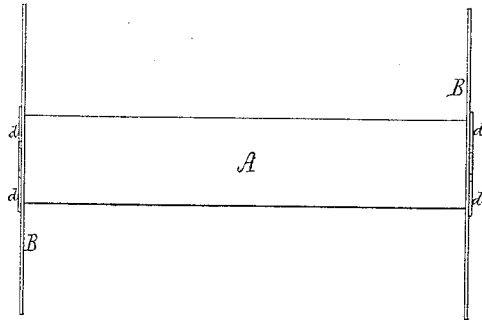


Fig. 2.

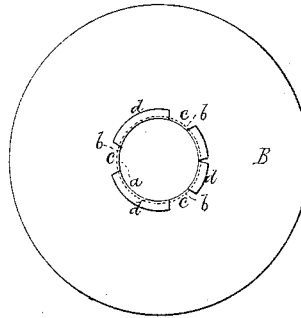


Fig. 3.

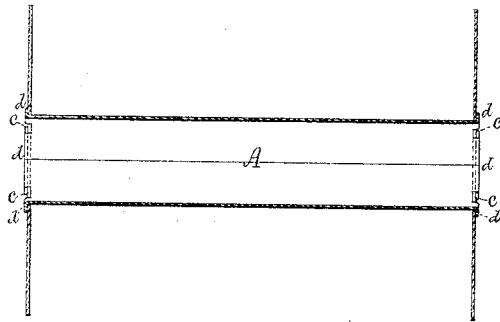


Fig. 4.

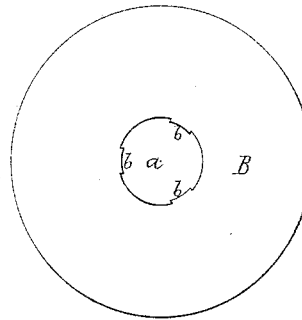


Fig. 6

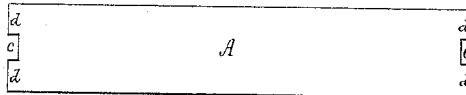


Fig. 5.

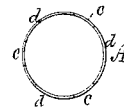
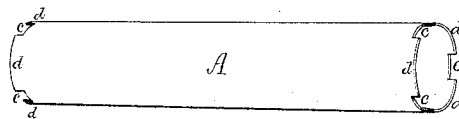


Fig. 7.



Witnesses
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IMPROVEMENT IN SPOOLS.

Specification forming part of Letters Patent No. **218,646**, dated August 19, 1879; application filed June 5, 1879.

To all whom it may concern:

Be it known that I, TIMOTHY F. TAFT, of the city and county of Worcester, and State of Massachusetts, have invented a new and useful Improvement in Bobbins or Spools; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side view, Fig. 2 an end view, and Fig. 3 a longitudinal section, of a spool embracing my improvement. Fig. 4 is a top view of one of its heads detached. Fig. 5 is an end view, Fig. 6 a side elevation, and Fig. 7 a perspective view, of the body.

A spool made of metal, in the manner hereinafter described, is specially useful for holding wire to be used in binding grain, or may be used for spooling thread or yarn, especially when provided with points or journals, as is the case with jack or dresser spools.

My improvement relates to the method of constructing the body and either or each of the heads with means or devices for connecting them, the body being a metallic tube, and each head being a metallic disk.

In the drawings, A denotes the body, and B B the two heads, of the spool.

In carrying out my invention, I construct either or each head of the spool with a central opening or eye, *a*, not only of a diameter corresponding to that of the body, but with a series of projections, *b b b*, extending from the circumference of the opening toward its center, as represented, usually arranging such projections at equal distances apart.

Furthermore, I construct the body, at either or each end thereof, with a series of notches, *c c c*, arranged in it to receive the projections *b b b*, each of the said notches, as shown, having a depth greater than the thickness of the projection, *b*, to be received into it.

Having introduced the body into the eye of the head so that the projections *b* shall extend within the notches *c*, I upset or bend over and down closely upon the head each of the parts *d* thereof between the notches.

I herein make no claim to a metallic spool or bobbin constructed and having its heads applied to its body in manner as represented in the United States Patent No. 213,761.

By my improvement I save the necessity of

channeling and bulging out the body at each end entirely around it to form a seat for the head, and I so apply the head to the body that the former cannot be revolved on the latter.

In my improved spool the body, in its entire distance from head to head, is cylindrical, or of one size transversely, or has near and between the heads no bulges to render the load of yarn or wire otherwise than cylindrical, or of the same size in transverse section throughout its length.

There are also material differences between my construction of a spool and such as are described in the United States Patent No. 200,706, in which each head is necessarily provided with a hub, and the tubular body, though slotted, does not, after being inserted into the hub, project beyond its outer end or surface, so as to be bent over on such hub; and, furthermore, a necessary element of the spool of such Patent No. 200,706 is a conical or tapering plug driven into the barrel.

My spool has no hub to either head, nor has it any plug for expanding the body; but it has its head a simple disk, provided with a circular eye and with projections extending inward from its circumference; and, besides, its tubular barrel has no shoulder or shoulders, but is simply notched to receive the projections of the head, and to enable the body, after being applied to the head, to project a short distance beyond the outer surface of the latter, so as to be upset or bent down upon such surface.

Therefore, in the improved spool as described, I claim as my invention—

The combination of the unhubbed head or disk B, having the eye *a* and projections *b*, arranged as set forth, with the tubular body B, provided at its end with the notches *c*, to receive and support the said projections *b* in the manner shown, and extended into the eye *a*, and beyond the outer surface of the head B, and having the parts *d*, projecting beyond the head, fastened thereto, or bent down or upset upon it, all being substantially as represented.

TIMOTHY F. TAFT.

Witnesses:

R. H. EDDY,
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