

(No Model.)

A. J. SEYBERT.
WARP BEAM FOR LOOMS.

No. 504,442.

Patented Sept. 5, 1893.

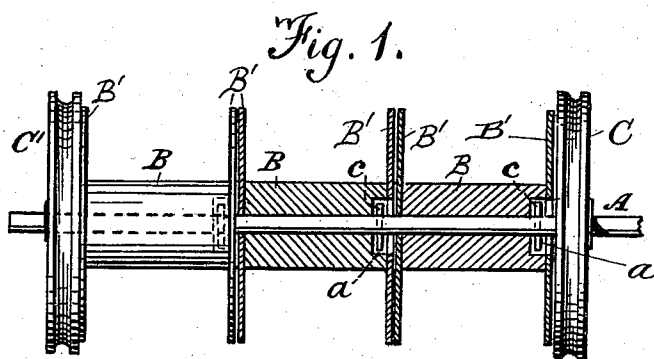
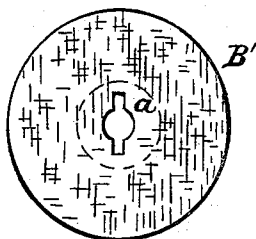


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

ANDREW J. SEYBERT, OF ARMSTRONG COUNTY, PENNSYLVANIA.

WARP-BEAM FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 504,442, dated September 5, 1893.

Application filed May 4, 1892. Serial No. 431,840. (No model.)

To all whom it may concern:

Be it known that I, ANDREW J. SEYBERT, a citizen of the United States of America, residing in the county of Armstrong, (East Brady P. O., Clarion county,) State of Pennsylvania, have invented certain new and useful Improvements in Warp-Beams for Looms, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to looms, which are more especially adapted for weaving carpets, and consists in an improved construction for the warp beam of such looms as hereinafter described and claimed, having for its object more especially to provide for the ready building up of the loom with more or less of the spools, which latter are independently and removably secured thereon in a novel manner which is illustrated in the accompanying drawings, in which—

Figure 1 represents partly in side elevation and partly in section, a warp beam embodying my improvements, and Fig. 2 is an end view of one of the spools removed.

Like letters of reference refer to like parts in both figures of the drawings.

The warp beam is composed of the shaft A which is perforated or pierced at specified intervals to receive the means which prevent the displacement of the spools after the latter have been placed upon the shaft.

B are the spools each of which is formed with a recess *a* in its hub or body portion back of the head B' said recess or slot extending through the head and upon opposite sides of the central opening therein through which the shaft passes as seen best in Fig. 2.

In placing the spools upon the shaft, a pulley C, preferably grooved as shown in Fig. 1, is fixed upon the shaft and then a spool B is sleeved upon the shaft and moved along the same toward the said pulley C, the pin *c* being first placed through the perforation in the shaft near said pulley and said spool being moved along the shaft until the slot or recess therein moves over the pin as shown in Fig. 1. Another pin *c* is then placed in the next perforation of the shaft and another

spool moved along the shaft until said pin is entered in the recess or slot thereof and so on until the requisite number of spools are in place on the shaft. After the last spool has been placed in position a grooved wheel C' is placed upon the shaft adjacent to the outer end of the last spool and said wheel is retained upon the shaft in any suitable manner. As will be seen from Fig. 1 the recess of each spool and the pin which holds the same to the shaft are covered by the adjacent head of the adjacent spool. It will then be seen that the spools may be easily placed in position and in any desired manner retained upon the shaft to revolve therewith and as easily removed when desired. The pins which serve to retain the spools are hidden from view and are incased within the hubs of the spools where they do not present any obstructions or means for collecting dirt, lint and other foreign substances.

I am aware that pulleys and wheels have been secured upon a shaft by means of slot and key and also by a pin passed through the shaft and engaging ratchet teeth on the pulley or wheel or a portion thereof, and do not seek to cover such constructions broadly, but

What I do claim is—

A warp beam for a loom, consisting of a shaft perforated at intervals, a pulley fast upon one end of the said shaft, spools on the shaft one of which is adjacent to the pulley and each having a diametrical recess in the head and end of the hub thereof, and pins passed removably through said perforations in the shaft and received in said recesses in each of the spools, and a removable pulley on the other end of said shaft, the recess and pin of each spool being covered by the adjacent head of the adjacent spool, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

ANDREW J. SEYBERT.

Witnesses:

A. C. GUTH,
R. R. MCGREGOR.