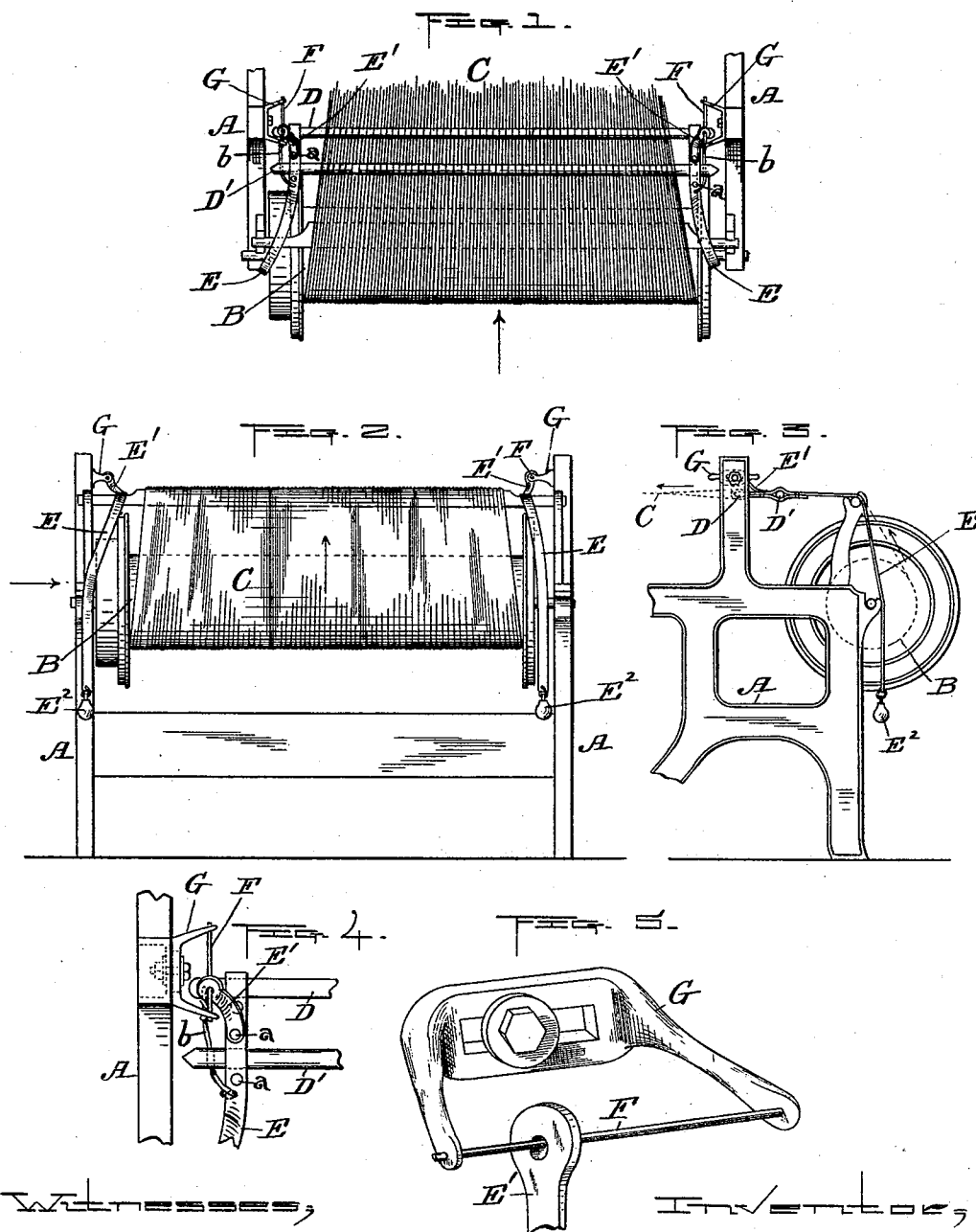


(No Model.)

A. MINNEY.
LEASE RODS FOR LOOMS.

No. 520,444.

Patented May 29, 1894.



Witnesses,
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UNITED STATES PATENT OFFICE.

ALMON MINNEY, OF MILLBURY, MASSACHUSETTS.

LEASE-RODS FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 520,444, dated May 29, 1894.

Application filed July 12, 1893. Serial No. 480,225. (No model.)

To all whom it may concern:

Be it known that I, ALMON MINNEY, of Millbury, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Lease-Rods for Looms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a plan of so much of a loom, as is necessary to illustrate said improvement. Fig. 2 is an end view thereof, looking in the direction of the arrow in Fig. 1. Fig. 3 is a side view of the parts shown in Figs. 1 and 2, looking in the direction of the arrow at the end of Fig. 2. Fig. 4 is an enlarged plan view of part of the construction shown in Fig. 1, which will be hereinafter described, and Fig. 5 is a perspective view upon a still larger scale, of one of the supporting brackets of my improved device.

My invention relates to the yarn checking mechanism of a loom, and consists of certain improvements, whereby a yielding tension is imparted to the yarn or warp to keep it taut between the yarn-beam and harnesses, as will be hereinafter more fully set forth.

In order that others may better understand the nature and purpose of my said invention, I will now proceed to describe it more in detail.

In the drawings: A, represents part of the loom-frame; B, the yarn or warp beam; C, the yarn or warp unwound therefrom, and D D' the lease rods over and under which the yarn or warp strands alternately pass to separate the same and impart the necessary friction thereon to keep them taut, and thereby prevent their becoming snarled or entangled in weaving.

I claim nothing new in the above construction.

My invention consists simply in combining with the aforesaid lease-rods, means whereby a back, yielding tension may be imparted thereto, and consequently to the yarn or warp, of sufficient power to positively insure keeping said yarn or warp taut at all times, and which means will now be described. Said lease rods are arranged independent of frame A and attached at both ends to straps E, E,

(one at each side of the loom) and each provided with a suitable loop or short strap E' whereby they may be suspended from short, longitudinally arranged rods F, F, mounted in brackets G, G. The brackets G G are, in turn, secured to frame A in any convenient manner, and the straps E E extend down over the loom-frame, outside of each end of the yarn-beam C and have weights E² E² attached to their lower ends, which serve to produce a back-draft upon the lease-rods, in an opposite direction to the movement of the yarn, and therefore, keeps the latter constantly taut. Said tension, it is obvious, may be regulated as desired, by increasing or decreasing the size of said weights. The loops E' E' of straps E E, as will be seen, are arranged to slide on the rods F F, and are in their normal positions when near the back end of said rods, as is shown in Fig. 1, therefore allowing of considerable forward, yielding movement of the lease-rods D D', when the yarn unduly draws upon the same, if retarded in any way. The lease-rods may be fastened laterally in the weighted straps by means of rivets a, at each side thereof, and longitudinally by a leather cord or rod b, passed through openings in the ends of said lease-rods, outside of the straps and attached to said straps, as shown, or in any other convenient manner. In this instance, I have shown each weighted strap as being provided with a short piece E' of leather riveted thereto, between the lease-rods, and provided with a hole in its outer end to receive one of the supporting rods F, upon which it slides; but, as various similar ways might be adopted in practice to accomplish the same result, I do not limit myself thereto.

My invention, as will be observed, is simple, durable and inexpensive in construction; and I find, by the application thereof to practice, that the yarn is much less liable to become snarled or broken than by the use of other devices of this nature of which I have knowledge, and consequently the cloth when woven is of a uniform and even texture, and almost entirely free from the usual imperfections caused in weaving.

Having now described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

A yarn-checking device for looms, consisting of the two, loosely suspended lease rods D D' over and under which the yarn or warp strands alternately pass; two weighted straps
5 E E,—one at each end of said lease rods,—adapted to hang down over the loom, and to the inner ends of which are attached the ends of the lease rods, said inner ends of the weighted straps E E also being provided with

means whereby they may be suspended and 10 fitted to slide upon short rods F F mounted in brackets G G, said rods F F and brackets G G—the latter secured to the loom frame, substantially as and for the purpose set forth.

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Witnesses:

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