(No Model.)

C. E. HUNTON.

FRICTION MECHANISM FOR THE WARP BEAMS OF SLASHERS.

No. 262,596. Patented Aug. 15, 1882.

Fig. 1.

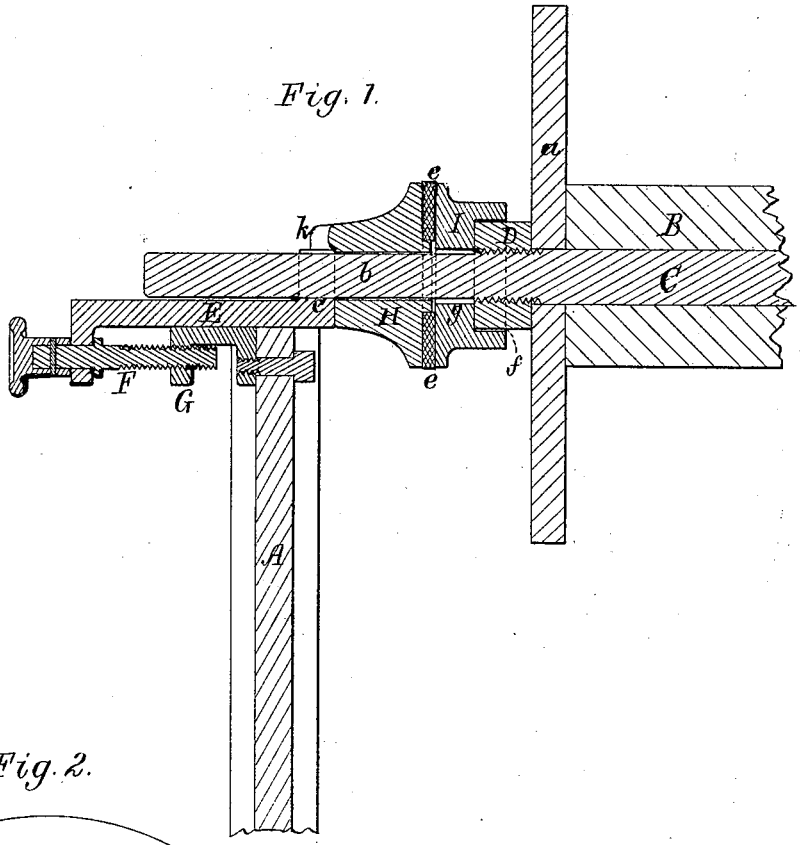


Fig. 2.

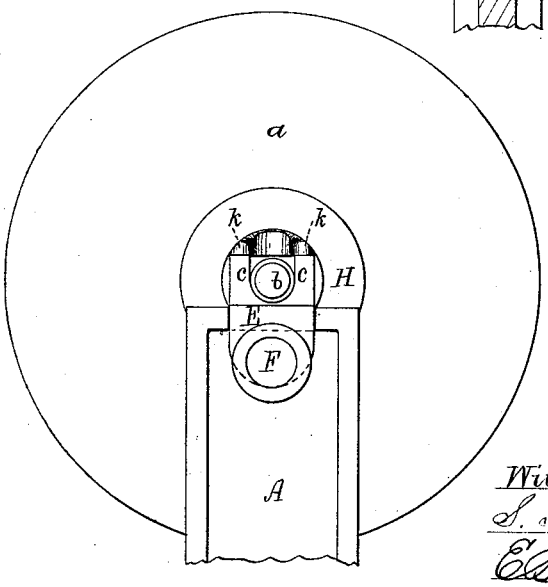
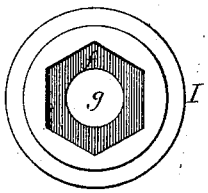


Fig. 3.



Witnesses.
S. N. Piper.
E. B. Pratt.

Inventor
Chas. E. Hunton.
by R. H. Eddy atty

UNITED STATES PATENT OFFICE.

CHARLES E. HUNTON, OF WALTHAM, MASSACHUSETTS.

FRICTION MECHANISM FOR THE WARP-BEAMS OF SLASHERS.

SPECIFICATION forming part of Letters Patent No. 262,596, dated August 15, 1882.

Application filed March 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. HUNTON, of Waltham, in the county of Middlesex, of the State of Massachusetts, have invented a new and useful Improvement in Friction Mechanism for the Warp-Beams of Slashers; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a longitudinal section, and Fig. 2 a front elevation, of my invention in its application to the creel and warp-beam of a slasher. Fig. 3 is a rear view of the rotary friction-head.

The nature of my invention is duly set forth in the claim hereinafter presented, the principle object of such invention being to keep the warp from being imperfectly delivered from the beam.

In Figs. 1 and 2 of the said drawings, A denotes one of the posts of the creel, and B one of the warp-beams of a slasher, the shaft of such beam being shown at C and one journal thereof at *b*. One of the beam-heads is represented at *a* as held in place, as usual, by a prismatic nut, D, screwed on the shaft. The shaft-journal *b* rests in a bearing, *c*, extending up from a movable slide, E, which rests on the head of the creel-post A, such slide being provided with a screw, F, for forcing it either away from or toward the beam. This screw, combined with the slide E, so as to be revoluble therein, but not movable in other respects independently of the slide, screws into an ear or bracket, G, projecting, as shown, from the creel-post A. There is to be to each supporting creel-post of the warp-beam a slide, E, provided with such an adjusting-screw, such slides and screws being to enable the warp-beam to be suitably adjusted in the direction of its axis.

The friction mechanism to be used with one journal of the slasher warp-beam consists of two metallic circular heads, H I, they being arranged on the journal *b* in manner as shown. The inner head, I, has, besides a cylindrical hole, *g*, made concentrically and axially through it to receive the shaft C, a prismatic socket, *f*, to receive and fit to the nut D. Consequently this head by means of the nut will be revolved by the warp-beam while the latter may be in revolution. The fellow head H, which I usually face on its inner surface, or that next the head I, with a leather disk, *e*, is bored axially to receive the shaft C, and is non-revoluble, it being provided with one or more ears, *k*, extending from it, as shown, over and upon the bearing *c*, the outer end of such head also resting against the inner upright face of the bearing. By means of the screw F the head H may be forced toward the head I, as occasion may require, to increase the friction, tending to prevent the warp-beam from revolving under the draft of the warp.

From the above it will be seen that the screw F and the slide E answer not only to aid in effecting adjustment of the warp-beam in a direction laterally of the slasher, but subsequently to regulate the friction required for the proper retardation of revolution of the warp-beam.

With my invention I avoid the use of a friction-pulley, strap, and weight, as heretofore generally employed with such warp-beam, the friction-heads H I being readily separable from a warp-beam, and as readily applicable to it, as occasion may require.

I claim as my invention as follows, viz:

The friction-heads H and I, constructed as explained, and arranged and combined, substantially as set forth, with the slasher warp-beam B, its shaft C, nut D, supporting bearing-slide E, and its adjusting-screw F, the said slide and screw being adapted to the creel, and to operate therewith and the friction-heads, essentially in manner as specified.

CHARLES E. HUNTON.

Witnesses:

CHESS H. HORTON,

F. J. ORCUTT.