(No Model.)

S. O. GREENING.

LATHE PITMAN FOR WIRE WEAVING LOOMS.

No. 383,879. Patented June 5, 1888.

Fig. 1.

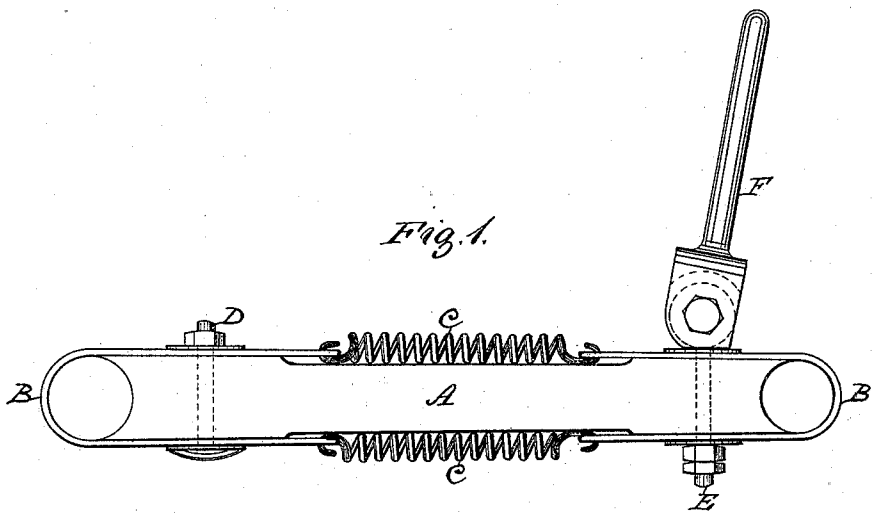


Fig. 2.

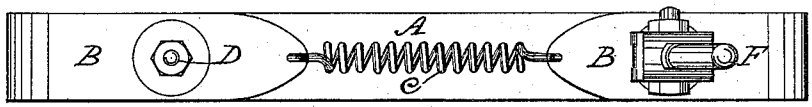
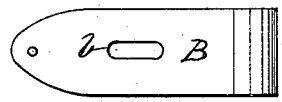


Fig. 3.



Witnesses.
Alfred Young
George Jones.

Inventor.
Samuel O. Greening.
per his Atty. John Hendry.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL O. GREENING, OF HAMILTON, ONTARIO, CANADA.

LATHE-PITMAN FOR WIRE-WEAVING LOOMS.

SPECIFICATION forming part of Letters Patent No. 383,879, dated June 5, 1888.

Application filed April 18, 1887. Serial No. 235,159. (No model.) Patented in Canada May 4, 1887, No. 26,603.

To all whom it may concern:

Be it known that I, SAMUEL O. GREENING, a citizen of Canada, residing at Hamilton, in the county of Wentworth, in the Province of Ontario, Canada, have invented a new and useful Improvement in Lathe-Pitmen for Wire-Weaving Looms, (for which I have obtained Letters Patent in Canada, No. 26,603, dated May 4, 1887,) of which the following is a specification.

My invention relates to improvements in the pitmen or crank-arms for wire-weaving looms, in which the main crank-shaft of a loom is connected to the lathe or beater by means of two pitmen or arms of the same kind; and the objects of my improvements are, first, to provide a pitman or arm that will take up all wear; second, to afford facilities for the proper adjustment of all defects or lost motion and to permit lost mesh to be taken up and the lathe or beater kept in proper position; and, third, to allow of the independent movement of the reed and lathe or beater, apart from the driving and other mechanism of the loom. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal side view of an entire pitman or beater-arm. Fig. 2 is a plan of the same; and Fig. 3 is a plan of an end strap, showing especially one of the slotted holes therein.

Similar letters refer to similar parts throughout the several views.

A is the main part of the body of the pitman or beater-arm, substantially constructed generally of hard wood, with the large end circled out to admit the crank of the main shaft of the loom and the other end circled out for the beater attachment. Each end is provided with a strap, B, secured to the arm by means of bolt D or eyebolt E, each strap having a slotted hole, as shown at *b*, Fig. 3. Thus each strap is adjustable, capable of being moved inward to take up wear; and by releasing the beater end by means of a cam-lever, F, (shown in working position,) any defects or lost mesh can be remedied. The two springs *c*, which are hooked to the two straps, as shown, tend to keep the beater close to the arm in proper position, and also allow the beater to be brought forward beyond the length of the arm at the will of the operator to take up lost mesh, this being accomplished when the loom is at a stand, the operator drawing the beater forward by hand independently of the driven mechanism of the loom.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of arm A with the slotted straps B, bolts D and E, and the cam-lever F, substantially as described.

2. The combination of an arm, A, having straps B, with slotted holes and bolts for the adjustment of the same, with the springs *c*, attached to the ends of the strap, substantially as shown and described.

3. The combination, with the arm A, with its slotted straps and bolts, and the springs *c*, hooked to the said slotted straps, of the cam-lever F, substantially as shown and described.

SAMUEL O. GREENING.

Witnesses:

ALFRED YOUNG.

GEORGE JONES.