(No Model.)

A. POLLOCK.

BELT TIGHTENER.

No. 439,790. Patented Nov. 4, 1890.

Fig. 1

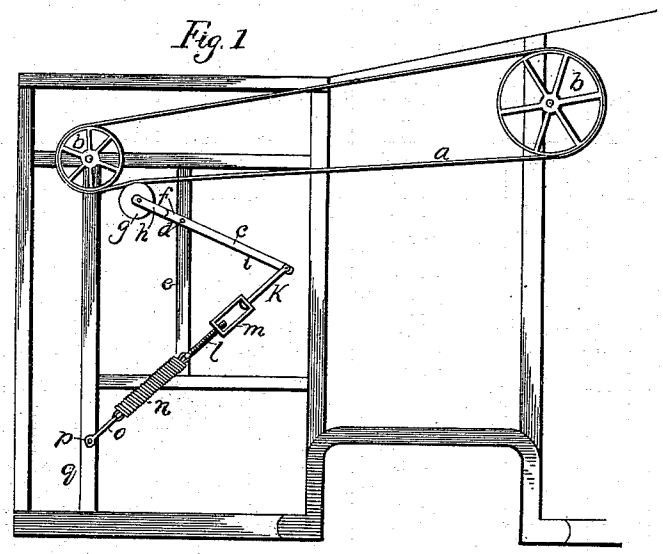


Fig. 3.

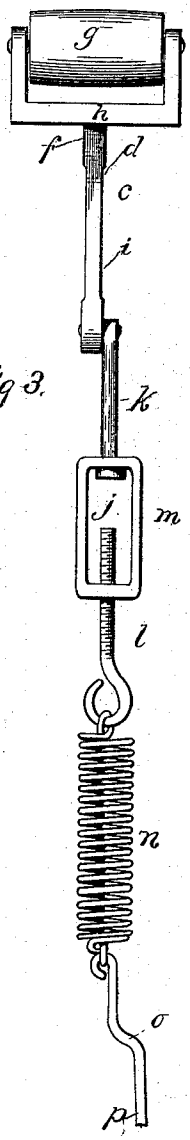
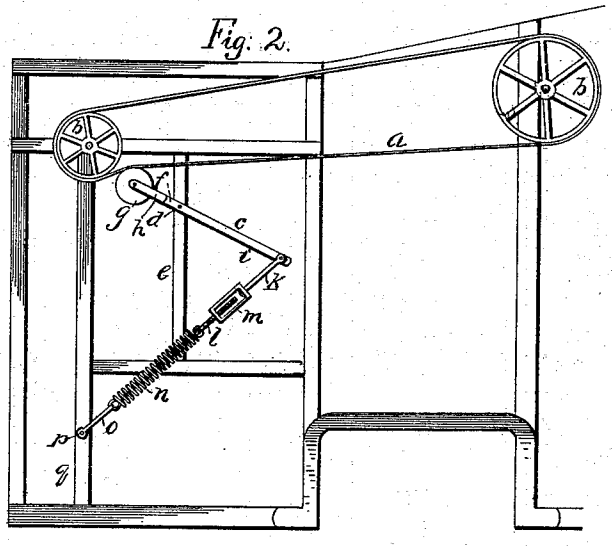


Fig. 2.



Witnesses
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per R. H. Dewey & Sons
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AMAZIAH POLLOCK, OF HALLSVILLE, ILLINOIS.

BELT-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 439,790, dated November 4, 1890.

Application filed July 11, 1890. Serial No. 358,436. (No model.)

To all whom it may concern:

Be it known that I, AMAZIAH POLLOCK, a citizen of the United States, residing at Hallsville, in the county of De Witt and State of Illinois, have invented certain new and useful Improvements in Belt-Tighteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has special reference to those belt-tighteners in which a roller upon the end of a lever is held against the belt by means of an adjustable spring or weight.

The object I have in view is to provide a more easily adjustable device than those hitherto in use; and with this purpose in view my invention consists of a lever having upon one arm a frame carrying a roller adapted to bear against the belt and having the other arm connected to a rod or bar provided with a turn-buckle which is secured to the end of a coil-spring, and this spring is also fastened to a link or bar by which it may be secured to a rigid object.

In the accompanying drawings, Figure 1 represents my device as applied to an ordinary thrashing-machine. Fig. 2 is a similar view, the spring being drawn out farther by means of the turn-buckle; and Fig. 3, an enlarged detail of the tightening device detached.

The reference-letter *a* represents an ordinary belt, which travels over pulleys *b* upon a thrashing-machine of any common construction, and to this belt my tightening device is applied. This device consists of a lever *c*, fulcrumed at *d* upon a vertical bar *e*. The short arm *f* of the lever is provided with a frame *h*, in which is mounted a pulley *g*, adapted to bear against the belt to make it tighter, and the long arm *i* is hinged to a bar *j*, composed of two pieces *k* and *l*, connected together by a turn-buckle *m*. The opposite end of the arm is loosely joined or otherwise loosely connected to the end of a coil-spring *n*, having its opposite end connected to a link *o*, provided with an eye *p* to receive a bolt for attaching it to any suitable object. In the present instance it is attached to one of the vertical studs *q* of the machine.

When it is desired to tighten or loosen the pressure of the roller upon the belt, this can be easily and quickly done by operating the turn-buckle. By this means the most minute degree of tightness can be secured.

The hinged bar *j* and spring are capable of being swung around to almost every position which may be necessary in applying my device to the belts of various kinds of machinery, and the link upon the outer end of the spring permits it to be readily attached to any rigid object.

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

1. In a belt-tightener, the combination of a lever having a frame upon its short arm, said frame being provided with a roller, a rod or bar hinged to the other arm and composed of two pieces, a turn-buckle interposed between said pieces, and a coiled spring hinged to said bar and adapted to be connected at its opposite end to the frame-work of the machine to which the tightener is applied, substantially as specified.

2. In a belt-tightener, the combination of a lever having a frame upon its short arm, said frame being provided with a roller, a rod or bar hinged to the other arm and composed of two pieces, a turn-buckle interposed between said pieces, a coiled spring hinged to said bar, and a link loosely connected to the spring and having an eye in its outer end to receive a bolt or pin whereby it may be attached, all arranged and adapted to operate as specified.

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

AMAZIAH POLLOCK.

Witnesses:
EDWARD WELCH,
G. A. BARNETT.