(No Model.)

A. B. LINN.

CARPET SWEEPER.

No. 557,280. Patented Mar. 31, 1896.

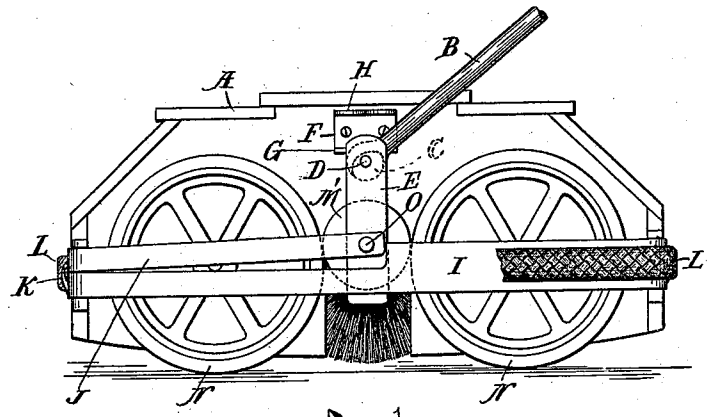

FIG. 1.

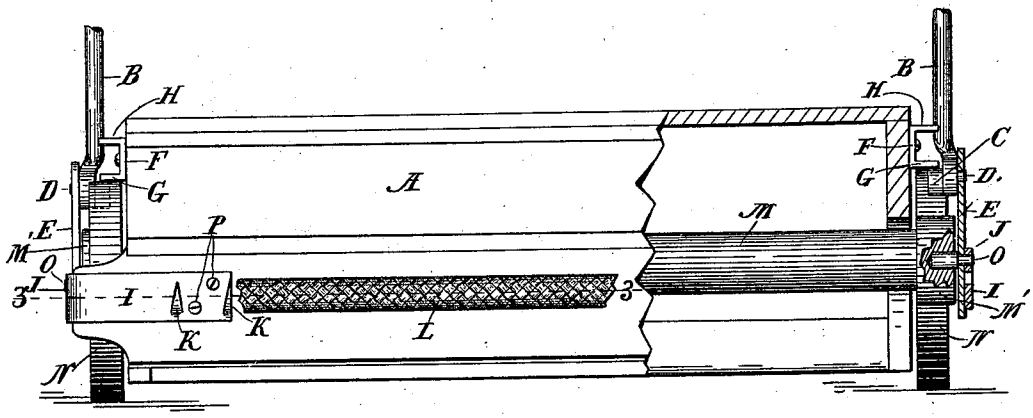

FIG. 2.

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UNITED STATES PATENT OFFICE.

ALLEN B. LINN, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO T. STEWART WHITE, THOMAS FRIANT, GAIUS W. PERKINS, AND CHARLES J. REED, OF SAME PLACE.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 557,280, dated March 31, 1896.

Application filed April 4, 1895. Serial No. 544,509. (No model.)

To all whom it may concern:

Be it known that I, ALLEN B. LINN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers; 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 relates to improvements in carpet-sweepers; and its object is to provide the same with certain new and useful features hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is an end elevation of a device embodying my invention; Fig. 2, a side elevation of the same with parts broken away to show the construction.

Like letters refer to like parts in both figures.

A represents the case; B B, the ends of the bail, which are pivoted at D to the upper ends of upwardly-projecting arms rigidly secured at their lower ends to the springs J by rivets O O, which rivets project inward to form journals to support the brush-shaft M, which shaft is provided with pulleys M′, engaged by the drive-wheels N and rotated thereby. The spring-supports J are formed of a portion of the guard-bars I, which bars are divided longitudinally from a point near said journals to a point somewhat beyond the angle in said bar, near the corner of the case, and the upper divided portion separated from the balance of said bar near said journal and bent upward, whereby a flexible arm J is formed, said flexibility being principally by torsion of that part of the divided upper portion J of said bar which is beyond the angle in the same. Downward pressure on the bail B will depress these spring-arms J and lower the brush. To normally adjust the said brush, cams C are provided on the inner sides of the ends of the bail B, which cams engage the under side of the lower flanges G on plates F secured to the ends of the case. The upper flanges H on said plates have concave outer edges, which engage the arms B of the bail and hold the same in vertical position. By turning the bail at various angles the brush may be normally adjusted higher or lower, according to the shape of the cams C C.

To secure the elastic band L in place, upwardly and outwardly projecting spurs K are struck up from the strip composing the guard-bar and integral therewith, which spurs enter the said band. Said spurs may be of separate stock and attached to said bars, but I prefer to strike them up, as shown.

What I claim is—

1. In a carpet-sweeper, in combination with the case, guard-bars divided longitudinally in part and having one of said divisions of each bar detached at one end to form flexible arms, a brush-shaft journaled on said arms, means for rotating said shaft, and a bail connected to said arms whereby pressure on said bail will lower the brush, substantially as described.

2. In a carpet-sweeper, in combination with a case, guard-bars, flexible arms formed of portions of the guard-bars, a brush-shaft journaled upon and supported by said arms, a bail connected to said arms, cams on said bail, and plates fixed to the case engaging said cams, substantially as described.

3. In a carpet-sweeper, in combination with a case, guard-bars, flexible arms formed of portions of the guard-bars, a brush-shaft journaled on said arms and supported thereby, means for rotating said shaft, upwardly-projecting arms connected to the brush-shaft journals, a bail pivoted to said arms, cams on said bail, plates secured to the case, having lower flanges engaging said cams and upper flanges notched to support said bail, substantially as described.

4. In a carpet-sweeper, in combination with a case, guard-bars provided with outwardly and upwardly projecting spurs, and an elastic guard-band mounted upon said spurs, substantially as described.

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

ALLEN B. LINN.

Witnesses:

LEWIS E. FLANDERS,

LUTHER V. MOULTON.