(No Model.)

G. R. PARKER.

BAR LIFTING ATTACHMENT FOR MOWERS.

No. 532,092. Patented Jan. 8, 1895.

FIG. 1

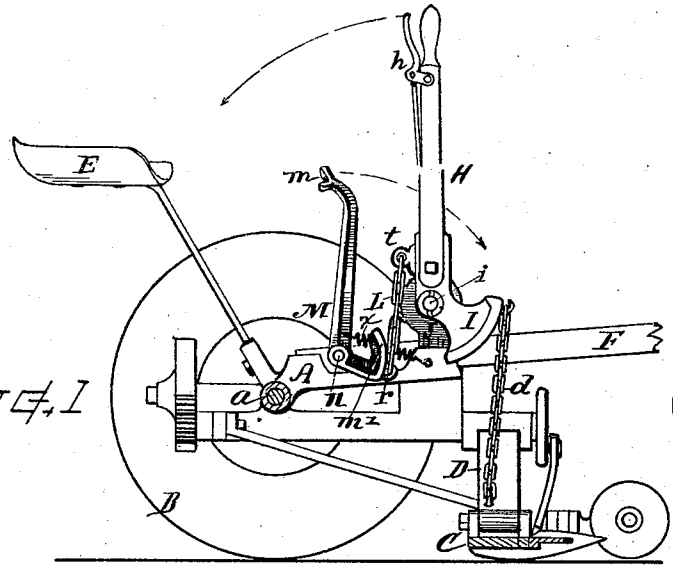


FIG. 3

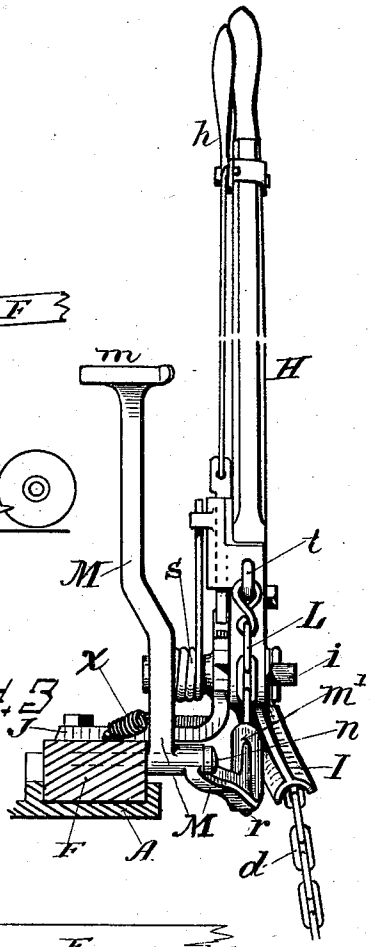
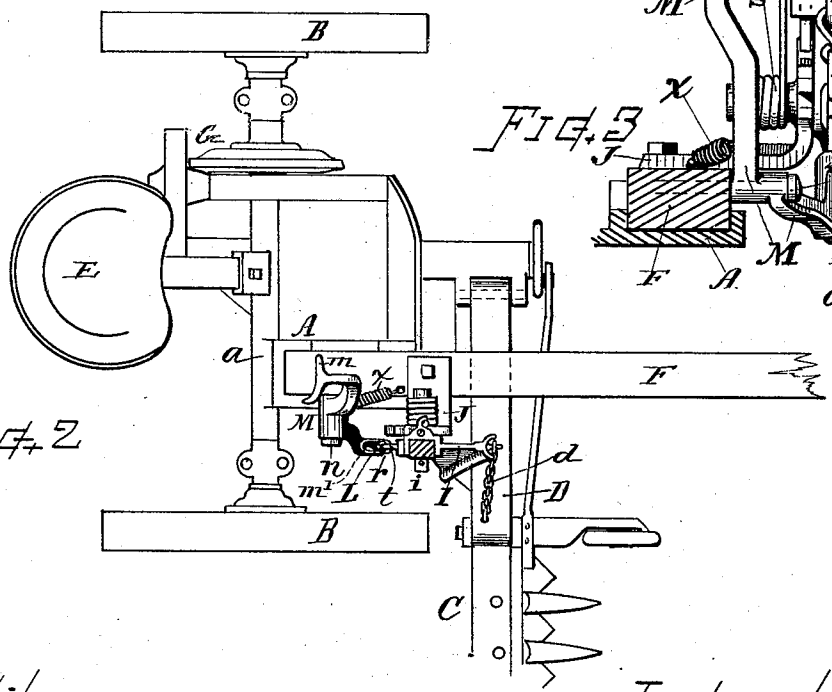


FIG. 2



Witnesses.
Ella P. Blevins
Simion & King

Inventor
Gardner R. Parker
By Chas. H. Burleigh
Attorney

UNITED STATES PATENT OFFICE.

GARDNER R. PARKER, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO THE RICHARDSON MANUFACTURING COMPANY, OF SAME PLACE.

BAR-LIFTING ATTACHMENT FOR MOWERS.

SPECIFICATION forming part of Letters Patent No. 532,092, dated January 8, 1895.

Application filed February 26, 1894. Serial No. 501,476. (No model.)

To all whom it may concern.

Be it known that I, GARDNER R. PARKER, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Bar-Lifting Attachments for Mowers, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

My present invention has for its object the provision of a simple and efficient forwardly acting foot mechanism for working the finger-bar lifter as a convenient auxiliary to the common hand-lever devices in mowers of the type illustrated, and to render the device practically applicable to short machines, or in which the driver's seat is so nearly over the axle as to preclude the use of a backwardly acting foot-lever.

My invention consists in a mechanism of the specific construction and operation explained in detail in the following description; the particular subject matter claimed being hereinafter definitely specified.

In the drawings, Figure 1 is a side view of the mechanism embraced in my invention as applied to a mowing machine. Fig. 2 is a plan view of the same, and Fig. 3 is a rear view of the same, on a somewhat larger scale, the tongue and frame being shown in section.

My improvement is applicable to that class of mowing machines or harvesters in which a hinge-jointed front-cut finger-bar is employed, and having a rocking lifter segment pivoted on a bracket attached to the pole or machine frame; said segment connected by a chain with the hinging joint piece of the finger-bar, and provided with a hand-lever, latching devices and spring of usual construction. The general construction of such machines being well known need not be herein described otherwise than by brief reference to the principal parts to indicate their location and to show the relation thereto of my improvement.

A denotes the machine frame; *a*, the main axle; B, the wheels; C, the finger-bar and cutters; D, the hinging-joint piece that carries the finger-bar; *d*, the lifting chain attached thereto; E, the driver's seat; F, the pole or tongue, and G, the operating gearing of any suitable construction.

The lifter segment I, to which the upper end of the chain *d* is attached, is mounted on a pivot stud *i* fixed in the bracket J, which latter is bolted to the pole F or to the machine frame. The hand-lever H is fixed to the segment and the usual relieving spring *s*, notched sector, latch and latch-operating device *h* are combined therewith, as heretofore employed, for retaining the parts when the finger-bar is elevated.

In accordance with my present invention there is provided adjacent to and in rear of the lifter-segment a lever M fulcrumed on a stationary pivot or axial stud *n* fixed to the pole F or upon the side of the machine frame. Said lever has an upwardly projecting arm furnished with a transversely disposed foot-bar *m* at its top end, and a forwardly projecting lower arm furnished with a scroll segment *m'* as illustrated. At its lower end said lever has an eye *r* from which a short chain L extends to and is connected with a backwardly projecting eye *t* arranged upon the lifter-segment casting at the rear of the hand-lever at a position above and back of the axis on which said lifter-segment swings.

The upwardly extended arm of the lever M is laterally offset so that it can swing forward past the hand-lever H and its latching devices without interfering therewith; and its lower arm is offset from the fulcrum hub so as to bring the scroll-segment in line with the hand-lever and its eye *t*. The head or foot-bar *m* of the lever M is normally at such position that the driver sitting upon the seat E can place his foot thereon and conveniently swing forward the upper arm of said lever by extension of his leg, thereby depressing the scroll segment *m'* and causing, by the chain L, an action of the lifter-segment I for elevating the finger-bar. As the lever M swings forward the hand lever H swings backward, and vice versa.

A small coiled spring *x* is preferably connected with the lever M to take up any backlash and to normally maintain a degree of tension on the connecting chain L when the segment is moved solely by the hand-lever H.

My improvement provides a very simple and convenient means for a foot-operated appliance to be employed on machines of this class in which the seat is located but a short distance back from the position of the lifting-segment axis; and it is also of such adaptation that it can be readily applied to machines already constructed.

I do not herein make claim broadly to the employment of a foot actuating device for operating the lifter; but my claim has reference to the specific arrangement and mode of operation embodied in the improved mechanism described.

I claim and desire to secure by Letters Patent—

In combination with the finger-bar, its hinging piece, the lifting chain, and the pivotally supported lifter segment having the hand-lever fixed thereto and provided with a backwardly directed eye above and in rear of the pivot axis; the forwardly acting foot-lever fulcrumed upon an axis at the side of the frame or pole in rear of the lifter-segment axis, its upwardly extended arm furnished with the transverse foot-bar, and its lower arm having a chain-attaching eye thereon, the connecting chain having its ends joined respectively to said eyes and connecting said foot-lever and hand-lever as shown, and a spring that acts on said foot-lever to normally maintain extension of said connecting chain, all substantially as set forth.

Witness my hand this 22d day of February, A. D. 1894.

GARDNER R. PARKER.

Witnesses:
CHAS. H. BURLEIGH,
GEO. M. RICE.