

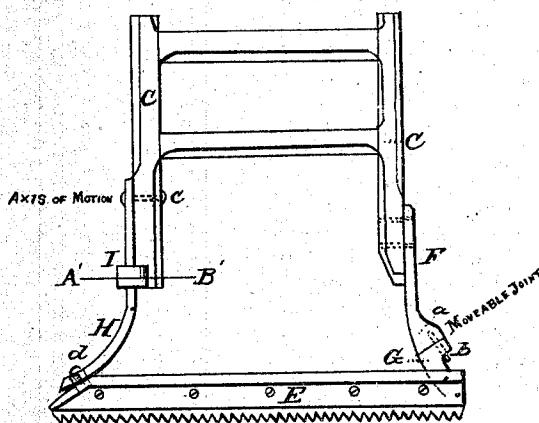
H. C & D. C. Markham.

Mower.

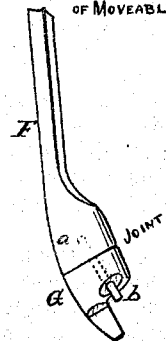
N^o 112365

Patented Mar. 7, 1871

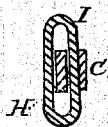
Plan



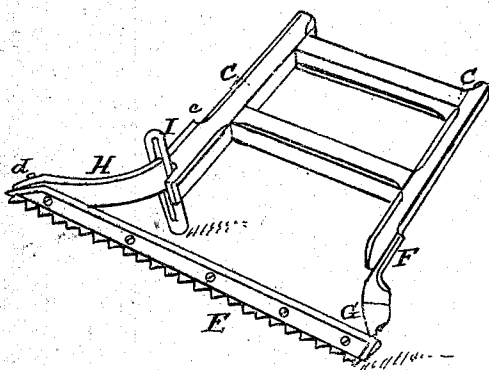
ENLARGED VIEW
OF MOVEABLE JOINT.



SECTION IN LINE A'B'



View



Witnesses:

A. J. Woodruff
W. H. Lewis

Inventor

Horner C. Markham
Gerritt C. Markham

UNITED STATES PATENT OFFICE.

HOMER C. MARKHAM AND DEWITT C. MARKHAM, OF COLLINSVILLE, N. Y.

IMPROVEMENT IN MOWING-MACHINES.

Specification forming part of Letters Patent No. **112,365**, dated March 7, 1871.

To all whom it may concern:

Letters Patent were issued to John D. Wilber, of Poughkeepsie, New York, bearing date of February 10, 1863, No. 37,656, for a new form and construction of mowing-machines, by him called the "Eureka."

Be it known that we, HOMER C. MARKHAM and DEWITT C. MARKHAM, both of Collinsville, in the county of Lewis and State of New York, have invented what we deem valuable Improvements in the Construction and Working of the above-mentioned invention of the said Wilber, which improvements we desire to secure by Letters Patent, and of which the following is a complete and accurate description, reference being had to the accompanying drawing, in which we give a horizontal plan and a perspective view of the same, also a section of the loop-support and a view of the joint attachment.

Making no claim to any improvement in the working parts of the machine, whereby motion and power are derived and transmitted to the scythe-bar, these parts have not been represented in the drawing.

In the drawing, C C is a wooden frame, supported upon the axle-tree of the machine, and carrying the gearing of the same. P is a heavy metallic support, made fast to one of the side pieces of the frame, extending forward and turning outward, the outer end of which is enlarged and carries a stout steel stud, *a*. G is a heavy metal collar fitted to the stud *a*, and secured upon the same by a nut or key, *b*. This collar is so adjusted that the bearing-surface between it and the support F may have the form of the section of a sphere. The opposite end of the collar is made fast to the end of the finger-bar E, forming a rigid joint with the same, and carrying the stud upon which vibrates the elbow which imparts motion to the scythe-bar. H is a heavy bent metallic arm attached to the frame C, at the point *c*, by a stout bolt, so ad-

justed as to allow of a motion of the opposite extremity of this arm in a vertical plane, the arm H passing through and being restricted and supported by the loop I, made fast upon the end of the arm of the frame C.

On the end of the finger-bar E there is a stout stud, which passes through the end of the arm H, in which it has a slight play.

Operation: When the machine is working upon smooth and even ground, the arm H, with the finger-bar E, will be found to retain a position very nearly in the same plane as the frame C C'. But let one of the driving-wheels, say on the side C, pass any obstruction, thus tilting up that side, then, instead of raising up that end of the finger-bar, the arm H, having a motion at *c*, prevents this end of the finger-bar from still lying in close contact with the ground, making a slight rotation upon the stud *a* in the bearing F, and at the same time not interfering with the action of the scythe-bar.

Again, should the wheel upon the side C drop into any depression, the above action would be reversed simply, the finger-bar still following the surface of the ground where the cutting is to be done.

If, however, the wheel upon the side C' is the one subject to these irregularities of motion, the construction of the joints at *a* and at *d* still admits of the bar E retaining its desired position near the surface of the turf.

Having thus described the construction and operation of our invention, what we claim, and desire to secure by Letters Patent, is—

The combination of the flexible connection F G H with the cutter-bar E and frame C C', the several parts being constructed and arranged to operate as heretofore set forth.

HOMER C. MARKHAM.
DEWITT C. MARKHAM.

Witnesses:

S. A. HILLIARD,
WM. H. LEWIS.