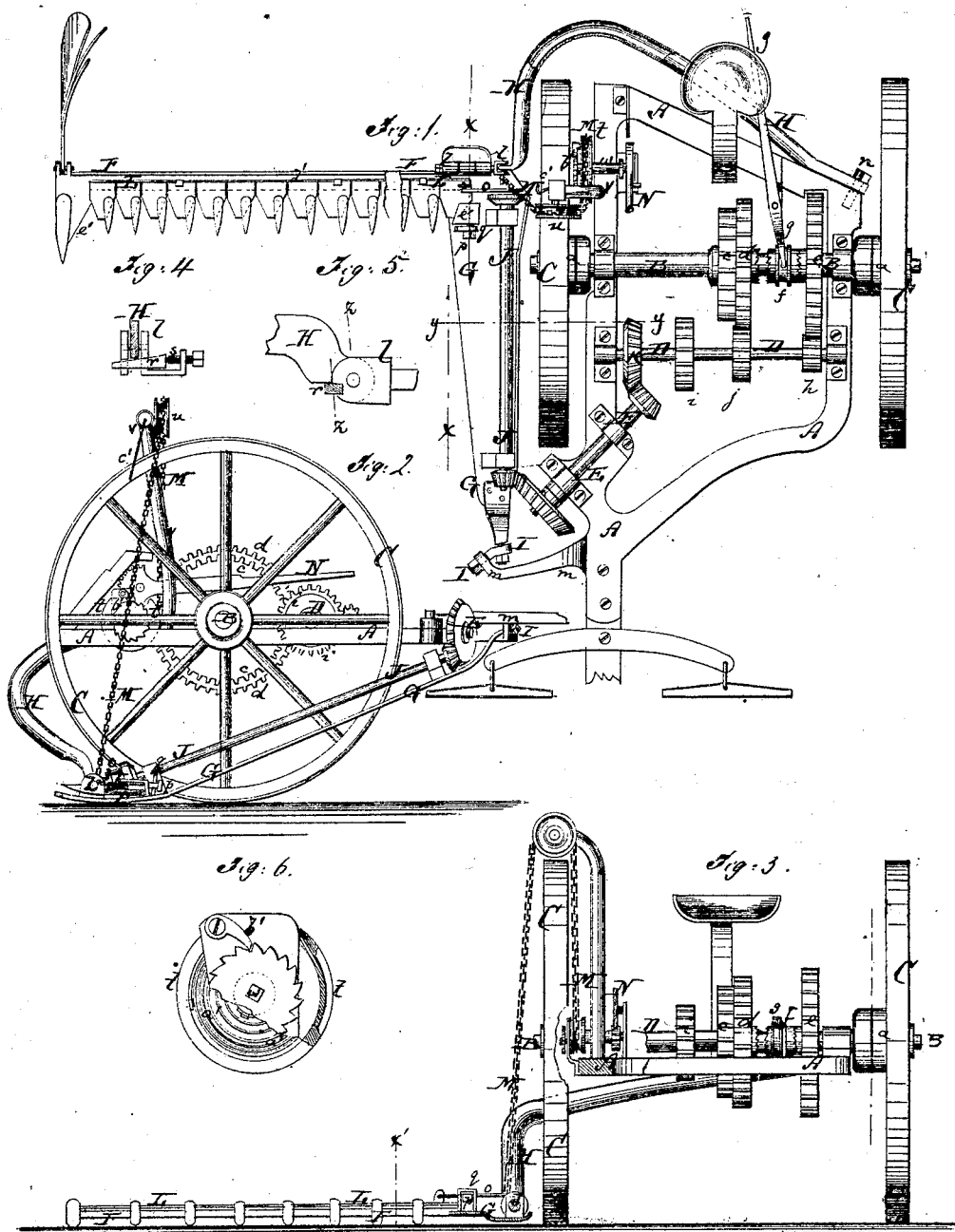


D. Mulock, Mower.

No. 112,166

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Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL MULOCK, OF MOUNT HOPE, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **112,166**, dated February 28, 1871.

To all whom it may concern:

Be it known that I, DANIEL MULOCK, of Mount Hope, in the county of Orange and State of New York, have invented an Improvement in Mowers and Reapers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a plan or top view, partly in section, of my improvement in mowers and reapers. Fig. 2 is a side elevation, partly in section, of the same, *x x*, Fig. 1, being the section-line. Fig. 3 is a front elevation, partly in section, of the same, *y y*, Fig. 1, being the section-line. Fig. 4 is a detailed transverse section of the adjustable wedge for regulating the drop of the cutter-bar, *z z*, Fig. 5, being the section-line. Fig. 5 is a detailed longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to mowers and reapers; and consists in certain features of improvement thereon, which will be first described in connection with all that is necessary to a full understanding thereof, and then clearly specified in the claims.

A in the drawing represents the horizontal main frame. B is the axle; C C, the wheels, which are connected by ratchet device in the usual manner.

When the cutters are to be operated rapidly for mowing thick grass, the small pinion *h* is rotated by the largest wheel *e* on axle B, the latter wheel being held in gear by the clutch. For slower operation the clutch is thrown against the wheel *d*, and *j* brought in gear therewith.

The finger-bar F is, by a pin, *l*, pivoted to ears projecting from the drag-frame G, which frame is in rear indirectly pivoted to a brace, H, and in front to a swivel-bolt, I, that hangs in an arm, *m*, of the frame A.

The finger-bar F is, as aforementioned, pivoted to the frame G by a pin, *l*, and has a slight lateral play on said pin, said play being regulated by a forwardly-projecting pin, *p*, working in a slotted ear, *q*, that projects from the frame G.

The inclination of the finger-bar longitudi-

nally is or can be regulated by means of an adjustable wedge, *r*, applied to its pivoted end, and made adjustable by means of a set-screw.

The lower end of the frame H is pivoted to the extremity of the bolt *l*, which constitutes thus the indirect lower support of the frame G.

The wedge *r* is fitted through part of the bolt *l* under the brace H. The more it is pushed ahead by the screws *s* the more will it lower the inner and thereby elevate the outer end of the finger-bar.

A chain, M, connects the inner-end of the finger-bar or the bolt *l* with a drum, *t*, hung on the frame A. The chain passes over a roller, *u*, which is hung to a tubular arm, V, projecting from the frame A.

The drum *t* is hung loosely on an arbor, *w*, hung to A, and is connected with the same by a suitable spring, *a'*. This spring can be wound up and so held by ratchet and pawl *b'*, Fig. 6.

The spring *a'* holds the drum *t* elastic, and constitutes a yielding support of the finger-bar, allowing the same to drop as far as desired. The more the spring is wound up the stronger will it become. If, with this arrangement, the finger-bar is slightly elevated to pass over a stone, the power of the spring will draw it up still farther to rapidly and entirely clear the same.

A lever, N, pivoted to the frame A, carries a toothed segment meshing into a pinion of the arbor *w*, and serves therefore to wind up the chain M for elevating the finger-bar.

A hook, *c'*, on the arm *v* serves to hold the chain whenever desired, and to keep the finger-bar suspended in any desired position.

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

1. The brace H, bolt *l*, and adjustable wedge *r*, combined, as described, with the finger-bar L, for adjusting the finger-bar, as set forth.
2. The rack-lever N, pinioned shaft *w*, drum *t*, spring *a'*, and chain M, combined, as described, with the hinged finger-bar, for the purpose specified.

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Witnesses:

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