

J. H. CAIN.

MOWER.

Patented May 22, 1877.

No. 191,025.

Fig. 1.

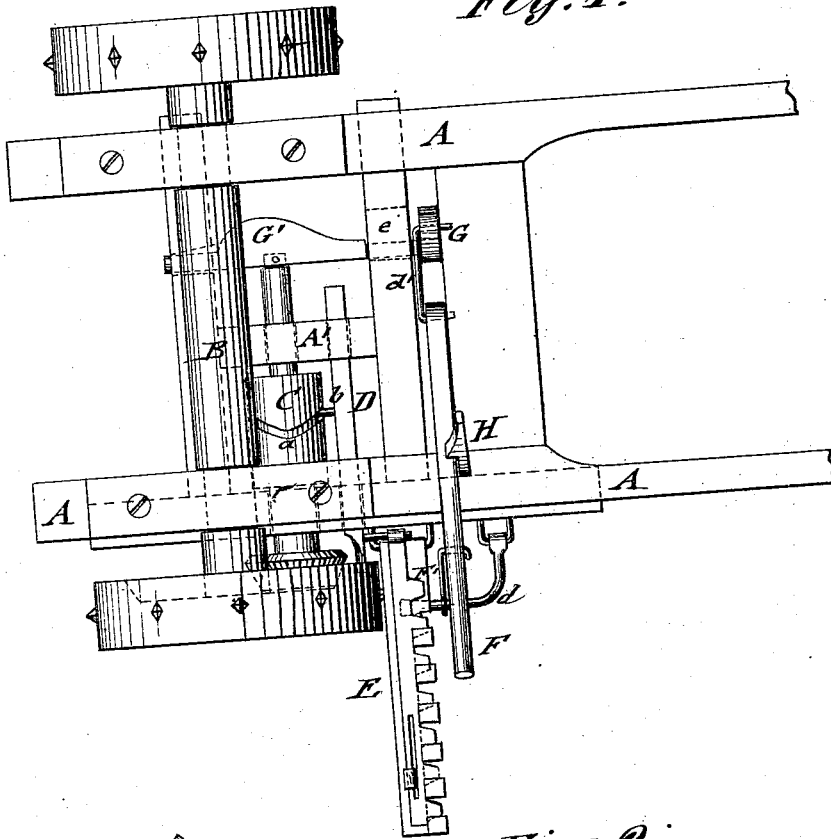
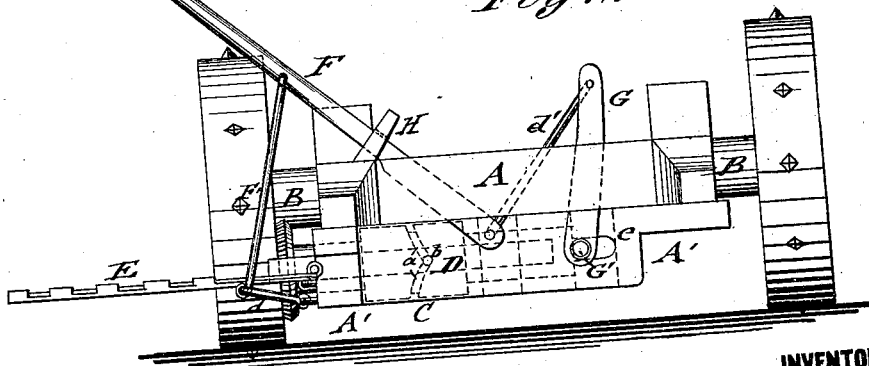


Fig. 2.



WITNESSES:

H. Rydquist
J. H. Scarborough.

INVENTOR:

BY *J. H. Cain.*
Wm. J. Munnell.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES H. CAIN, OF CANA, NORTH CAROLINA.

IMPROVEMENT IN MOWERS.

Specification forming part of Letters Patent No. 191,025, dated May 22, 1877; application filed March 12, 1877.

To all whom it may concern :

Be it known that I, JAMES H. CAIN, of Cana, in the county of Davie and State of North Carolina, have invented a new and useful Mowing-Machine, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a front view, of my improved mowing-machine.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

In the drawing, A represents the supporting-frame of my mowing-machine, which rests on the revolving axle of the wheels by suitable boxes or bearings. One of the supporting-wheels is toothed at the interior of the tire, to gear with a bevel-wheel at the end of a cylinder or wave-wheel, C, which engages, by a wave-groove, *a*, the steel pin *b* of the reciprocating sickle-bar D. The shaft of the cylinder or wave-wheel C turns in suitable bearings of a frame, A', secured to the main or tongue frame A, while the reciprocating bar D is also guided in suitable recesses of the lower frame A'. The mowing-sickle or cutter-blades E are hinged, respectively, to frame A' and to a pin of the reciprocating bar D, and connected, by a brace-rod, F', with the hand-lever F, the brace F' being hinged to a bail, *d*, of the lower cutter-blade. The hand-lever F is fulcrumed to the main frame A, and connected, by a pivot-rod, *d'*, with a sec-

ond fulcrumed lever, G, that operates a horizontal piece, G', which is pivoted to the rear cross-piece of frame A', and guided in a slot, *e*, of the front piece of the same. The end of the cylinder-shaft is pivoted to a socket of the horizontal piece G', and thereby, jointly with the raising or lowering of the hand-lever F and mowing-cutters E, the cylinder wave-wheel C thrown out of, or into, gear with the actuating main wheel.

When the cutter-blades E are thrown into downward position by the lever, they are rigidly braced by the rod F', and retained in position for work by a hook, H, binding on lever F, so as to be operated by the reciprocating motion of the cutter-bar as imparted by the gearing of the wave-wheel with the main wheel. The swinging up of the cutter-blades interrupts the gear of main wheel and wave-wheel by joint action of the levers F and G, and gives, in this manner, to the attendant a full control over the mower.

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

The combination of bar D, blades E, and hand-lever F, one of said blades being hinged to pin of bar D, and one connected by bail *d* with the hinged brace F', as and for the purpose specified.

JAMES HARISON CAIN.

Witnesses:

R. F. CAIN,
M. R. CHAFFIN.