H. C. HART.

Lawn Mower.

No. 110,457. Patented Dec. 27, 1870.

Fig: 1.

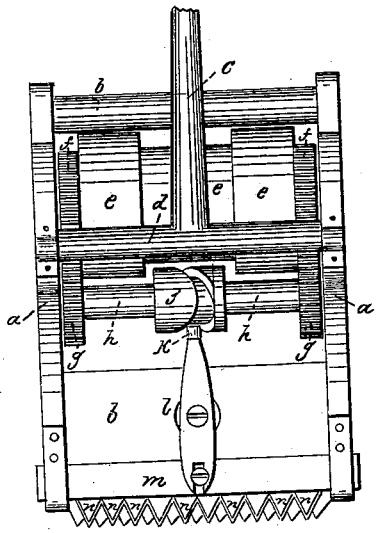
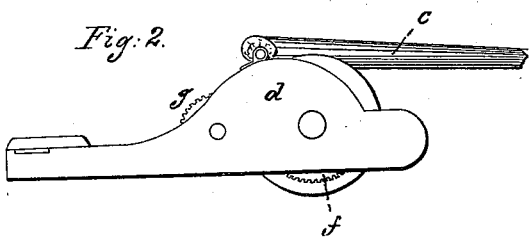


Fig: 2.



Witnesses:
Fred. K. Pierson
Newton Crawford

Inventor:
H. C. Hart by
H. W. Bradley
Associate Atty

UNITED STATES PATENT OFFICE.

HUBERT C. HART, OF UNIONVILLE, CONNECTICUT.

IMPROVEMENT IN LAWN-MOWERS.

Specification forming part of Letters Patent No. **110,457**, dated December 27, 1870.

To all whom it may concern:

Be it known that I, HUBERT C. HART, of Unionville, in the county of Hartford and State of Connecticut, have invented certain Improvements in Lawn-Mowers, of which the following is a specification:

My improvements are applied to that class of small hand-mowing machines termed "lawn-mowers;" and consists in an arrangement for driving a set of reciprocating cutting-teeth, situated in front of the machine, by intermediate mechanism, which takes the driving-power from the main roller of the machine.

Referring to the accompanying drawing, Figure 1 is a plan view. Fig. 2 is a side elevation.

The letters *a a* indicate the frame, connected and held together by the cross-pieces *b b*. *c* is the handle, attached to the roller *d*, which turns freely in bearings in the frame.

The letter *e* indicates the main roller, with a gear-wheel, *f*, at one or both ends, driving the gears *g*, which are fixed to the shaft *h*, upon which is the cylindrical cam *i*, in the surface of which cam is the serpentine groove *j*, in which groove runs a pin, fixed in the end of the lever *k*, which lever is pivoted to the cross-piece *b* at *l*, and at its farther extremity is pivoted, by a pin, to the reciprocating cutting-bar *m*, which is provided in front with cutting-teeth *n*.

Directly under the reciprocating bar is a stationary bar, having teeth similar to those on the cutter-bar *m*.

It will be readily understood that, by means of the mechanism just described, the cutter-bar will be caused to reciprocate as the machine is pushed forward, and thus cut the grass.

The cylindrical cam *i* can be made of any desired size, as it projects back into the body of the main roller; and, also, the groove *j* can be made to have as many convolutions as desired. This arrangement of sinking the cam *i* into the body of the roller allows of placing the shaft *h* very close to the roller, and, at the same time, permits of making the cam *i* of any desired size, thus securing a large number of convolutions in the groove and attaining the necessary speed.

I do not claim the elements described in themselves; but

I claim as my invention—

The combination of the main roller *e*, cam-shaft *h*, with cam *i j*, gearing *f g*, lever *k*, cutter *m n*, and the frame *a*, when the parts are constructed and arranged specifically as described, for the purpose set forth.

HUBERT C. HART.

Witnesses:

MARY MOSES,

THOMAS BROOKS.