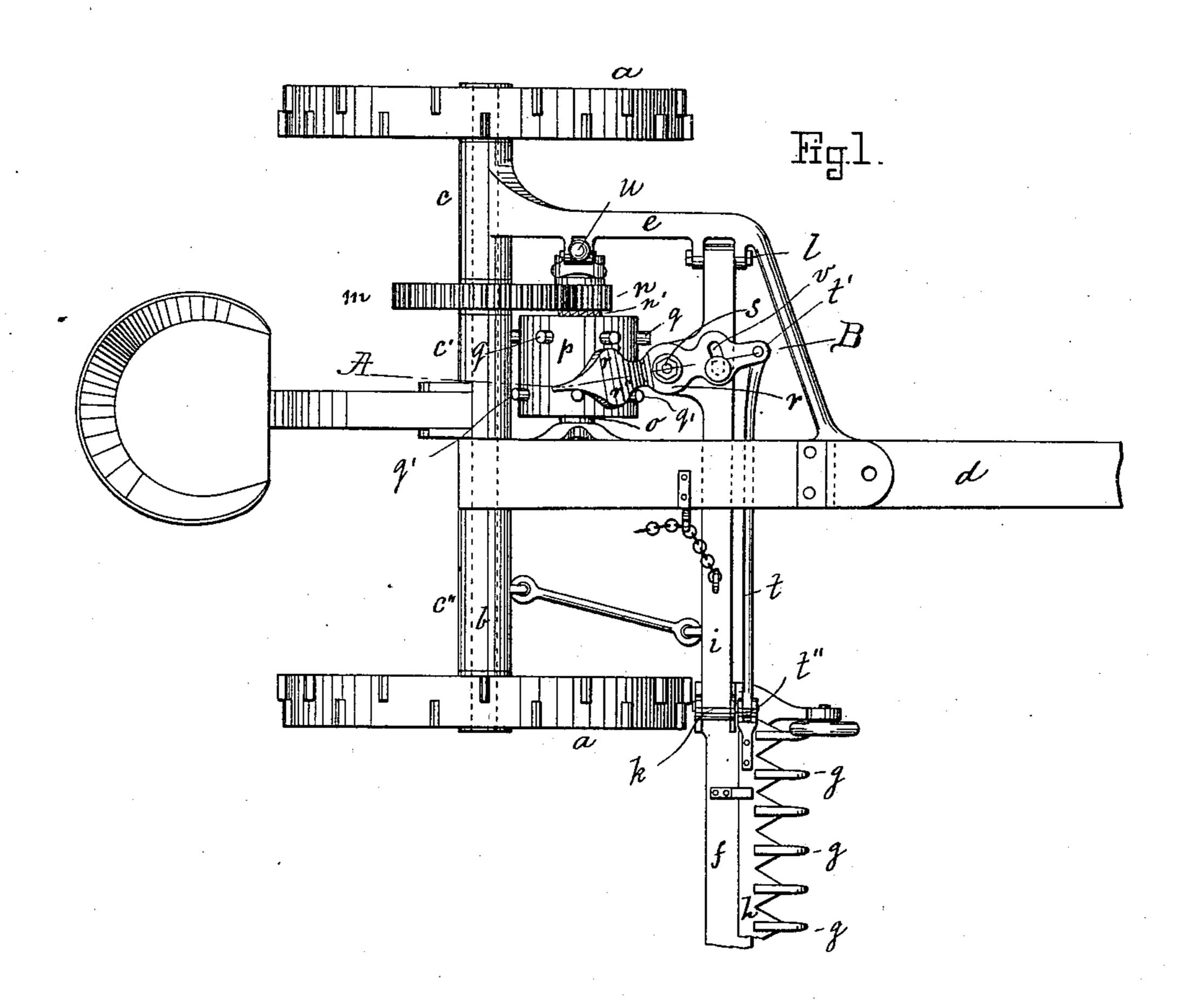
A. TELFER.

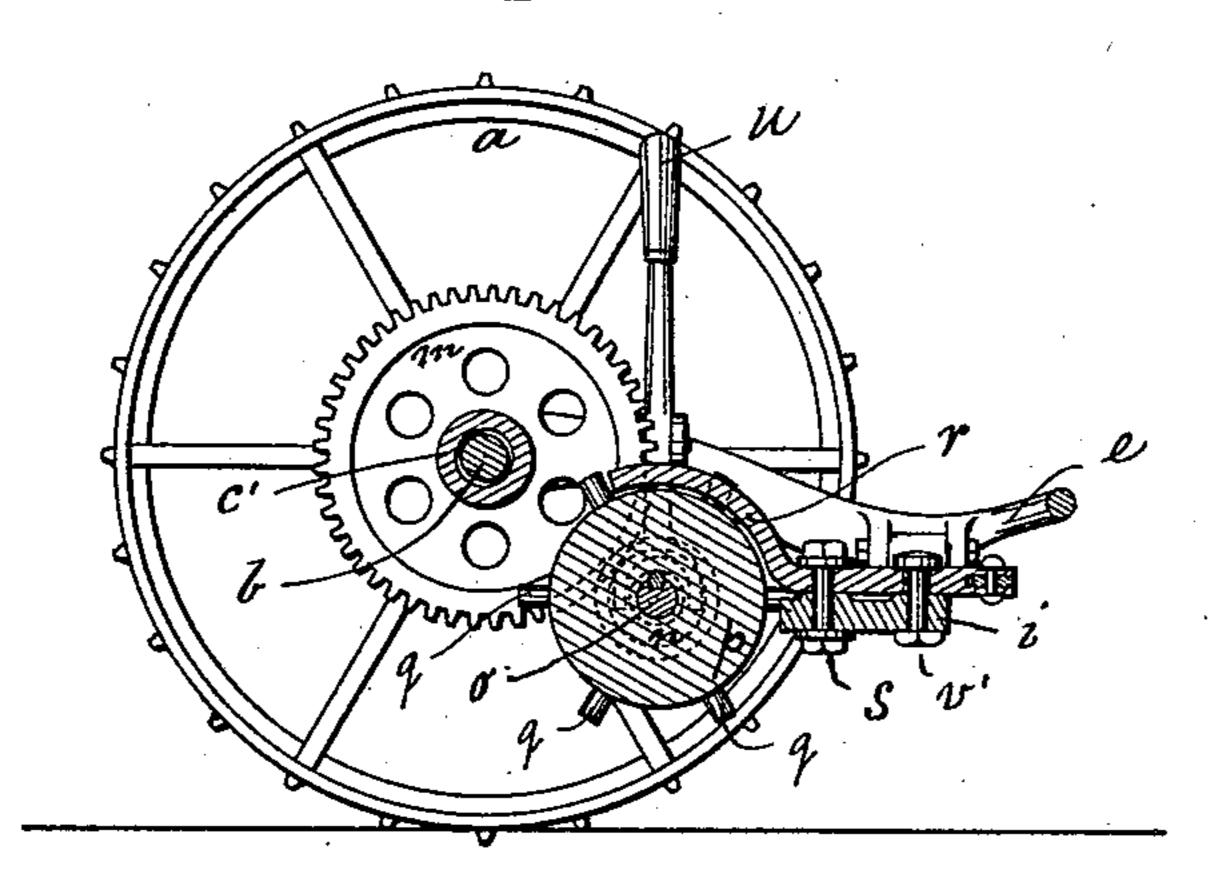
MOWING MACHINE.

No. 251,389.

Patented Dec. 27, 1881.



Fg.Z.



Witnesses

Henry Chadbourn.

Inventor.

andrew Telfer by Manfudren. his atty.

United States Patent Office.

ANDREW TELFER, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO A. C. WOODWORTH, OF CHICOPEE, AND ORRAN G. CILLEY AND THEO-DORE S. VERY, OF BOSTON, MASSACHUSETTS.

MOWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 251,389, dated December 27, 1881.

Application filed April 29, 1881. (No model.)

To all whom it may concern:

Be it known that I, ANDREW TELFER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Mas-5 sachusetts, have invented certain new and useful Improvements in Mowing-Machines; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to improvements in mowing-machines; and it consists of an improved mechanism for converting the rotary motion of the driving shaft to a reciprocating motion on the scythe, such mechanism being · 15 equally well adapted for horse-clipping and other machines in which it is desired to convert a rotary motion into a reciprocating one, as will now be herein more fully shown and described, reference being had to the accom-20 panying drawings, in which—

Figure 1 represents a plan view of my invention as applied to a mowing-machine, and Fig. 2 represents a cross-section on the line A

B shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a a represent the driving-wheels, as usual, secured to the shaft b, which latter is made to 30 revolve in the bearings c c' c'' in the ordinary manner when the machine is drawn over the ground.

d is the draw-bar.

e is a frame uniting the bearing c to the

35 draw-bar d, as shown.

f is the cutter-bar, with its guard-fingers g g and reciprocating scythe h, in the usual manner.

· i is the bar to which the cutter-bar f is joint-40 ed at k, as shown, the opposite end of the bar i being hinged, as at l, to the frame e, as usual. m is a spur-wheel secured firmly to the driving-shaft b, which spur-wheel is geared into the teeth of the pinion n, the latter being loose 45 on the intermediate shaft, o, that is journaled in bearings secured to the draw bard and frame e, or other stationary parts of the machine.

To the shaft o is secured the drum or cylinder p, which is provided on its circumference

with two alternating rows of pins or project 50 tions, q q q' q', between which is arranged the upper end of the lever r, that is provided with cams r'r'' on its two opposite sides, as shown. The lever r is hung on the fulcrum-pin s to the bar i, as shown, its forward end being jointed 55 at t' to the scythe rod or link t, the opposite end of which is jointed at t'' to the inner end

of the scythe h.

u is a locking-lever for the purpose of connecting or disconnecting the clutch n' or simi- 60 lar locking device to and from the drum p. A slot-hole, v, is made through the forward part of the lever r, through which is inserted the guide-bolt v', passing also through the bar i, as shown, for the purpose of holding said le- 65 ver r in its proper position on the bar i during the reciprocating motion of the said lever r.

The operation of the device is as follows: When the machine is drawn forward over the ground a rotary motion is imparted, by means 70 of drivers a a, shaft b, and spur-gears m n, to the drum or cylinder p. The alternating rows of projections q q' q' during their rotation cause the lever r to be reciprocated on its fulcrum s by the cams or inclines r' r'', being act- 75 ed upon respectively by the pins or projections q q q' q', and in this manner a reciprocating motion is imparted to the rod t and the scythe h without any extra gearings, save the ones, m and n, heretofore described.

When it is desired to drive the machine on the road without working the scythe, it is only necessary to disconnect the pinion n from the drum p by means of the hand-lever u and clutch n', or similar or equivalent devices, and then 85 to raise the cutter-bar and scythe, as usual.

The device as shown for imparting a reciprocating from a rotary motion, is very simple in construction, is composed of very few parts, has very little frictional resistance, and con- 90 sequently can be operated with a minimum of power as compared with other devices now in use for this purpose.

I desire to state that I do not claim the particular arrangement of the cutter-bar, its scythe, 95 and connections to the frame, as shown and described, as such are well known in mowing-

machines now in use; but

What I desire to secure by Letters Patent, and claim, is—

In combination, the rotary drum p, its alternating pins or projections $q\,q'$, the curved rocking lever r, adapted to fit the surface of the drum p, and provided with curved cam-faces r' r'', slot-hole v, and guide-bolt v', as described, and for the purpose set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

ANDREW TELFER.

Witnesses:

JAMES FAIRBAIRN,

HENRY CHADBOURN.