A. TÖRNQUIST.
Mowing-Machine.

No. 211,946. Patented Feb. 4, 1879.

Fig. 1

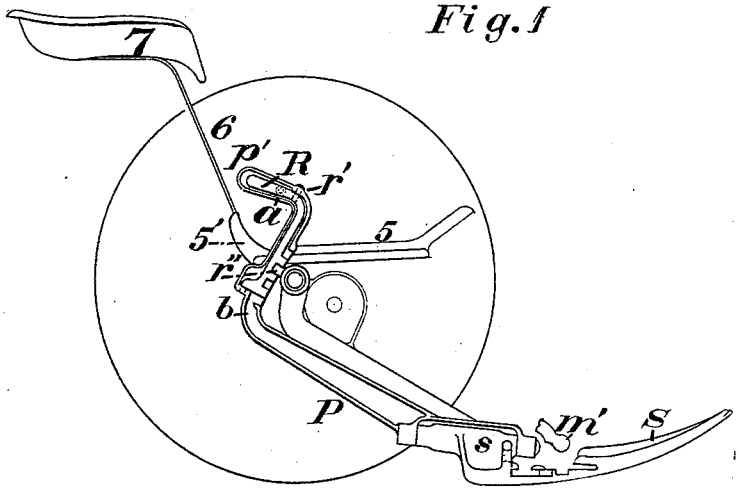
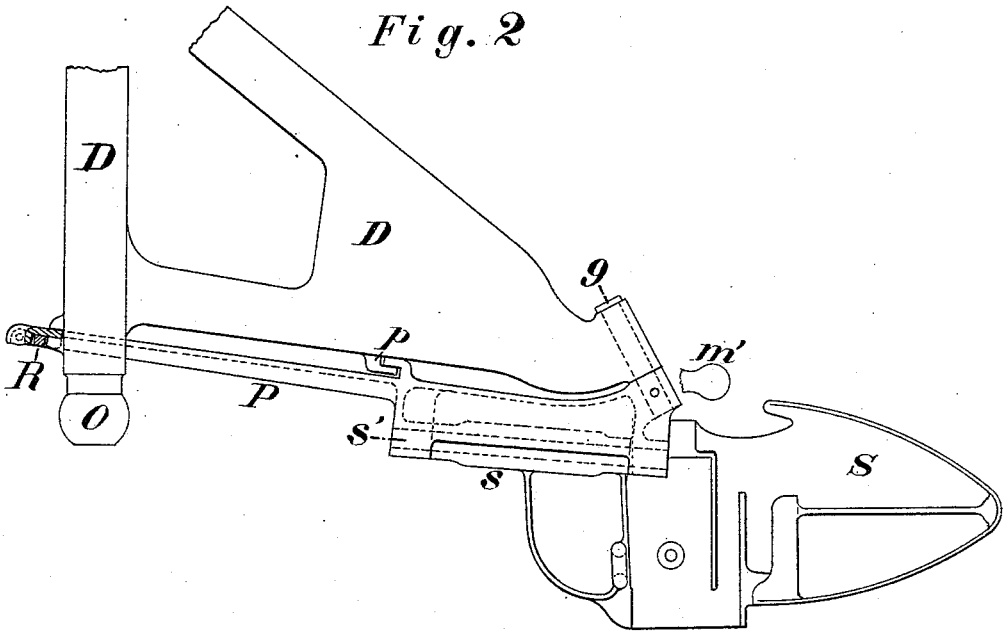


Fig. 2



Witnesses
John H. Kingsfield
James D. Thornton

Inventor
Alfr. Törnquist

UNITED STATES PATENT OFFICE.

ALFRED TÖRNQUIST, OF NEW YORK, ASSIGNOR TO R. DUTTON, OF YONKERS, N. Y.

IMPROVEMENT IN MOWING-MACHINES.

Specification forming part of Letters Patent No. **211,946,** dated February 4, 1879; application filed November 7, 1878.

To all whom it may concern:

Be it known that I, ALFRED TÖRNQUIST, citizen of Sweden, now residing in the city of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Mowing-Machines, of which the following is a specification:

The object of my invention is to provide an easy and reliable method for raising and lowering the points of the fingers for harvesting-machines, to vary the height or angle of cut, and also to hold them in position when regulated.

The invention consists in hinging the inside shoe to a brace or arm, which arm is in turn hinged at one of its ends to one end or corner of the frame diagonal to the hinge of the shoe, the other end of the arm extending upward and forming a handle convenient to be operated by the driver while in the seat. It also consists in a latch and catch for fastening it when set at any desired point.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an end view of the machine, the inner or right-hand wheel being removed. Fig. 2 is a top view of the inside shoe, the brace or arm, and a portion of the frame.

S, Figs. 1 and 2, is the shoe. *s* is the socket through which the pin *s'* passes, hinging the shoe to the arm P. The arm P is hinged to end of the frame D with the pin 9, and is held to the frame by the locking device *p*. The arm extends back and upward and forms the handle *p'*, convenient to be operated by the driver.

R is the latch, hinged on *r* and *r'*. The latch is kept closed by the spring *a*. The notches in the latch pass over the projecting catch *r''* on the frame. When the points of the fingers are to be turned the driver takes hold of the handle *p'*, clasping his hand around the latch R, pressing it in toward the handle, and turns it upon the pivots *r* and *r'*, which relieves the notches from the catch *r''*. Then by pressing down or drawing up the handle the points of fingers are raised or lowered. When the hand releases the latch the spring causes it to catch in the notch and hold the fingers as regulated.

The lower end of the arm is connected to the frame by a diagonal hinge, 9, so that when the points of the fingers are raised or lowered the position of the knife-head in relation to the connecting-rod is not materially changed. It is further held opposite the upper end of the shoe-hinge by the latch and recess *p*, curved to suit the diagonal hinge 9 at its lower end. *m'* is the end of the vibrating arm which gives motion to the knife.

I claim—

1. The inner shoe of a harvesting-machine hinged to one side of a brace or arm, which arm in turn is hinged at its lower end to one end of the frame by a hinge diagonal to the shoe-hinge, the other end of the arm extending upward and forming a handle convenient to be operated by the driver while sitting on the machine, substantially as and for the purpose specified.

2. In combination with the diagonal hinge 9, the latch and recess *p*, for steadying the brace P, substantially as described.

3. The inner shoe of a harvesting-machine hinged to one side of a brace or arm, which arm in turn is hinged to one end of the vibrating frame by a hinge diagonal to the shoe-hinge and bisecting the axis thereof at or near the pitman-joint at the heel of the cutter-bar, substantially as and for the purpose specified.

ALFR. TÖRNQUIST.

Witnesses:

RUFUS DUTTON,

DAVID SCOTLAND.