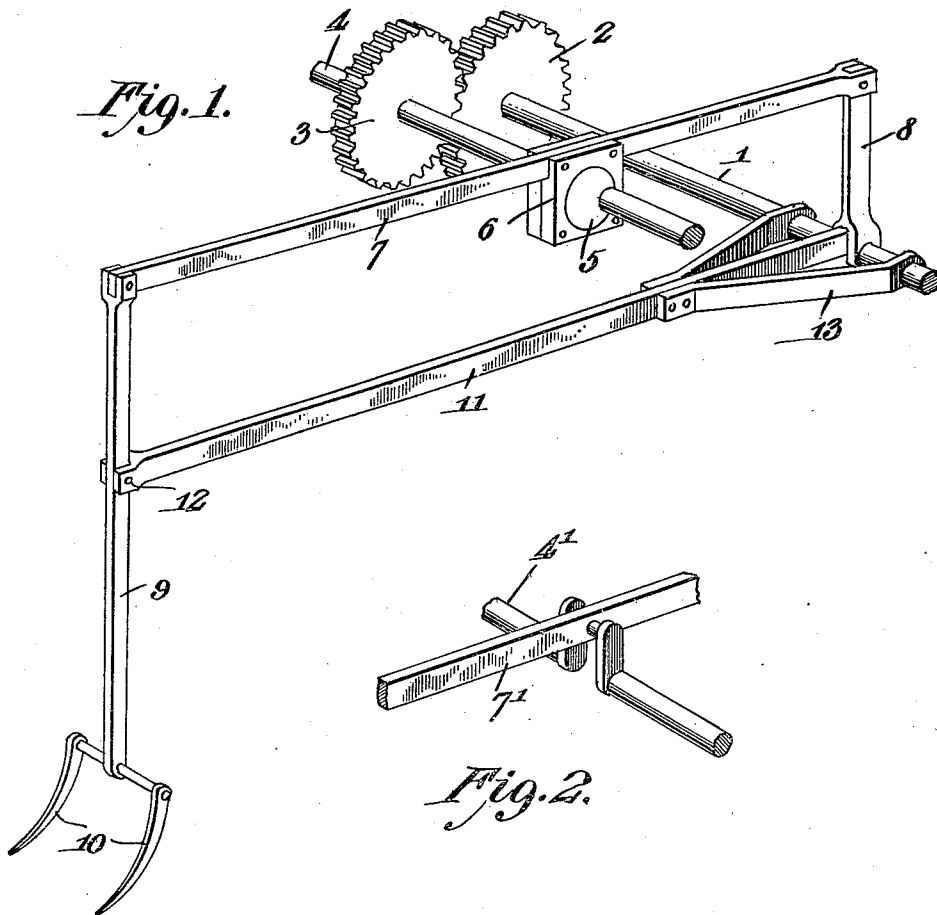


B. F. LUTZ.
HAY TEDDER.
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958,514.

Patented May 17, 1910.



Witnesses

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BENJAMIN F. LUTZ, OF CELINA, OHIO, ASSIGNOR OF ONE-HALF TO JAMES M. HOWICK,
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HAY-TEDDER.

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To all whom it may concern:

Be it known that I, BENJAMIN F. LUTZ, a citizen of the United States, residing at Celina, in the county of Mercer and State of Ohio, have invented new and useful Improvements in Hay-Tedders, of which the following is a specification.

This invention relates to improvements in hay tedders and the object of the invention is to provide a device of this character which is extremely simple in construction, which receives its power from the shaft of the machine and which is provided with means whereby the tedder receives a reciprocatory motion in an undulatory path.

With the above and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings there has been illustrated a simple and preferred embodiment of the invention, and in which,

Figure 1 is a perspective view of the device. Fig. 2 is a perspective view of a slightly modified form of the device.

In the accompanying drawings the numeral 1 designates the main driving shaft of the machine.

The machine itself may be of any ordinary or desired construction and does not enter into the subject matter of the present invention.

The shaft 1 is provided with a suitable wheel 2, preferably provided with teeth, and which is adapted to mesh with a similar wheel 3 mounted upon a second shaft 4. This shaft 4 is provided with an eccentric 5 mounted within a suitable housing 6 carried by a longitudinally extending arm 7. The rear end of this arm 7 is provided with a link 8 loosely mounted upon the shaft 1 and the forward portion of the arm 7 is provided with a downwardly extending member 9 carrying the forks or tedder 10. The shaft 1 is provided with a second longitudinally extending link or arm 11, which has its forward end pivotally connected with the rod 9 as indicated by the numeral 12. The member 11 is loosely positioned upon the shaft 1 and is provided with suitable

offset bracing members 13 which are also loosely connected with the said shaft 1.

From the above description it will be noted that as the shaft 1 is revolved the shaft 4 also receives motion through the medium of the toothed wheels 2 and 3 and the eccentric 5 is caused to revolve with the shaft 4 thus causing the upper arm to reciprocate and through the medium of the links 9, 11 and 8 to impart a reciprocatory motion in an undulating path to the forks 10.

In Fig. 2 I have shown a slightly modified form of the eccentric. In this form the shaft 4' is provided with a suitable U-shaped offset having its connecting arm passing through the rod 7'.

Having thus described the invention what is claimed as new is—

1. An operating shaft, a longitudinally extending arm loosely mounted upon the shaft, a link loosely connected with the shaft, a second longitudinally extending arm pivotally connected with the link, a rod pivotally connecting the free ends of both of the arms, a fork upon the lower extremity of the rod, a second shaft, means for imparting motion to this second shaft when the operating shaft is rotated, and means provided upon the second shaft for imparting a reciprocatory motion in an undulatory path to the fork when the shaft is rotated.

2. An operating shaft, a toothed wheel connected with the shaft, a second shaft, a toothed wheel upon this shaft meshing with the wheel upon the first shaft, an eccentric upon the second shaft, a longitudinally extending rod, a housing upon the rod for the eccentric, a link connection between the first shaft and the longitudinally extending rod, a depending member pivotally connected with the rear end of the rod, a fork upon this member, a second longitudinally extending rod loosely connected with the first shaft and with the member provided with the fork.

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

BENJAMIN F. LUTZ.

Witnesses:

TOM HOWICK,
FRED LUTZ.