

G. SPALDING.
MOLDBOARD FOR TILLING MACHINES.
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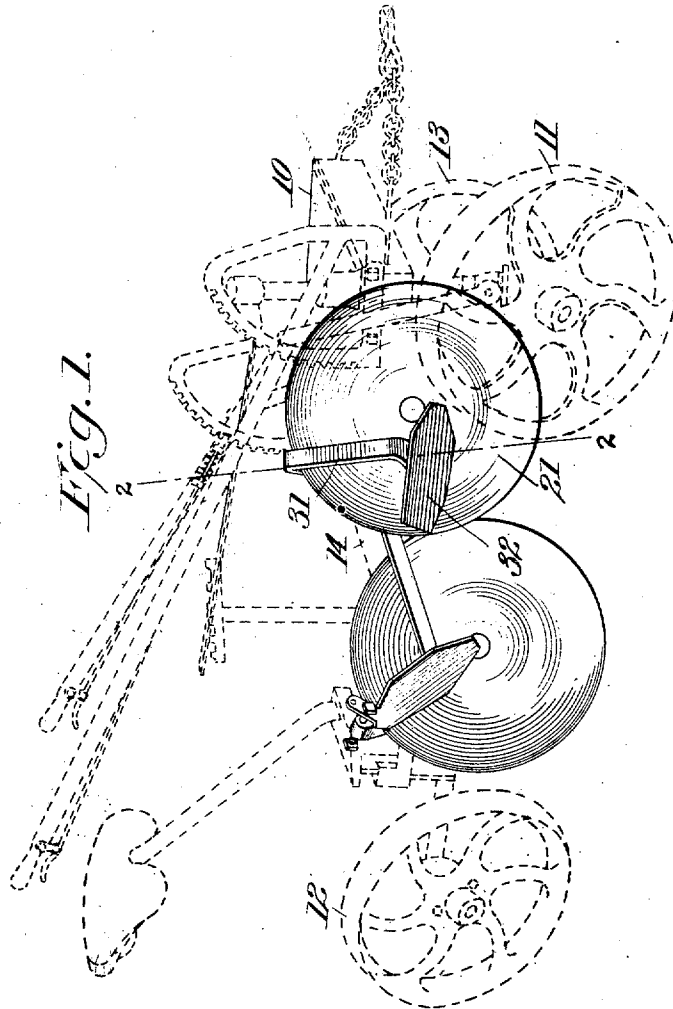


Fig. 1.

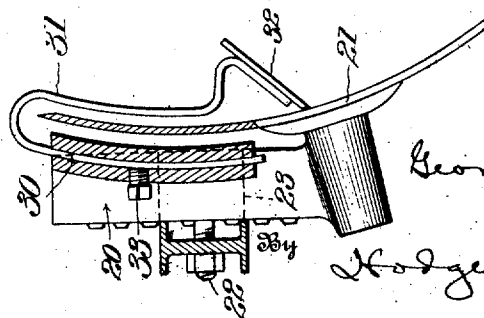


Fig. 2.

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UNITED STATES PATENT OFFICE.

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MOLDBOARD FOR TILLING-MACHINES.

988,740.

Specification of Letters Patent.

Patented Apr. 4, 1911.

Application filed April 22, 1910. Serial No. 557,035.

To all whom it may concern:

Be it known that I, GEORGE SPALDING, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Moldboards for Tilling-Machines, of which the following is a specification.

This invention contemplates certain new and useful improvements in tilling machines and relates more particularly to machines of this character in which rotary disks are employed.

The invention has for its object to provide an improved moldboard or attachment for a rotary disk adapted to ward off and turn the earth as it is raised by the said disk, whereby said earth is broken apart, disintegrated and guided to the place where it is deposited.

A further object is to provide improved means for supporting the moldboard in such manner that it will not become a brake or rub against the surface of the disk as it revolves.

A further object is to provide means for adjusting the moldboard so that the edge of the latter, as it is adjusted, will always conform to the curvature of the disk.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings:—Figure 1 is a perspective view of a tilling machine, the form illustrated being that covered by Letters Patent 942,460, granted to me December 7, 1909. Fig. 2 is a transverse sectional view on the line 2-2 Fig. 1.

Referring to the drawing, 10 designates the frame of the tilling machine provided with the front furrow wheel 11, the rear furrow wheel 12, and the land wheel 13, suitable levers being provided for raising and lowering the frame in accordance to the depth it is desired to plow. It will be noted that while I have illustrated a tilling machine of the character covered by the Letters Patent above mentioned, I do not desire to limit myself to the use of my invention in connection with such a tilling machine, as the said invention is adapted for use in connection with any tilling machine in which rotary disks are employed. For the sake of clearness in the illustration the parts above described are shown in dotted lines.

On the inside of the backbone 14 is mounted the standard 20 carrying the journal of the disk 21, said standard being adjustably secured in position by means of a bolt 22 passing through a slot 23 in the standard and rigidly engaging the backbone. The standard 20 is provided with an extension 30 having a recess or socket to receive one end of an approximately U-shaped arm 31 on the opposite end of which is secured a moldboard 32. A set screw 33, or other securing means serves to hold said arm rigidly within said socket. It will be noted that both members of the arm 31 are curved concentrically with the face of the disk, and that the recess or socket in the extension 30 also corresponds to this curvature.

In practice when it is desired to adjust the fender to any desired position the set screw 33 is loosened and the arm 31 raised or lowered as desired, after which the bolt 33 is tightened to hold the moldboard in the adjusted position. In this connection it will be noted that as the arm 31 is moved up or down the curvature of said arm causes the edge of the moldboard 32 to move in an arc that conforms with the curvature of the disk so that no matter in what position it may be adjusted it will not become a brake, or rub against the surface of the disk as the latter revolves. The moldboard serves in breaking apart and pulverizing the earth as lifted by the disk and discharges the pulverized earth at a uniform elevation. This serves to destroy the "furrow slice", that is, instead of the earth being left in ridges or "furrow slices", as in the case when a moldboard plow is used, the earth that is turned by a rotary disk equipped with a moldboard as herein described is left approximately level on top and in a suitable and fit condition for a seed bed, and so that little, if any, additional preparation is required by means of a harrow, or otherwise.

Having thus explained the nature of my invention, and described a manner of constructing and using the same, although without attempting to set forth all the forms in which it may be made or all of the modes of its use, what I claim is:—

1. The combination with a rotary disk of concavo convex form, of a moldboard for said disk, and an arm supporting said moldboard and conforming to the curvature of said disk.

2. The combination with a concavo convex disk, of a moldboard therefor and means for adjusting said moldboard in a line concentric with the curvature of said disk.

5 3. The combination with a concavo convex disk, of a moldboard therefor, an arm supporting said moldboard, and means for adjusting said arm to move said fender in a curved line concentric with the curvature
10 of said disk.

4. The combination with a concavo convex disk, of a U-shaped arm adapted to straddle said disk, both branches of said arm being curved concentric with the curvature of said disk and a moldboard carried
15 by one branch of said arm.

5. The combination with a concavo convex disk, of a U-shaped arm adapted to straddle said disk, both branches of said arm being curved concentric with the curvature of said disk, a moldboard supported by said arm, and means for adjustably supporting
20 said arm.

6. The combination with a concavo convex disk, of a standard for supporting said disk provided with an extension having a recess or socket therein, an arm adjustably mounted in said recess, and a moldboard

supported by said arm, the adjustment of said arm being such as to move said moldboard in a curved line concentric with the curvature of said disk. 30

7. The combination with a concavo convex disk, of a standard for supporting said disk provided with a curved recess concentric with the curvature of said disk, a U-shaped arm adapted to straddle said disk and having one branch secured in said recess, and a moldboard carried by the other branch of said arm. 35 40

8. The combination with a concavo convex disk, of a standard for supporting said disk provided with a recess, a U-shaped arm straddling said disk and having one branch adjustably secured in said recess, and a moldboard carried by the other branch of said arm, said recess and both branches of said arm being curved concentric with the curvature of said disk. 45

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 50

GEORGE SPALDING.

Witnesses:

L. ROSS ELLETT,
L. C. CECIL.