No. 840,922. PATENTED JAN. 8, 1907.

D. H. DICKINSON.

JOINTER FOR STUBBLE PLOWS.

APPLICATION FILED AUG. 30, 1906.

Fig 1

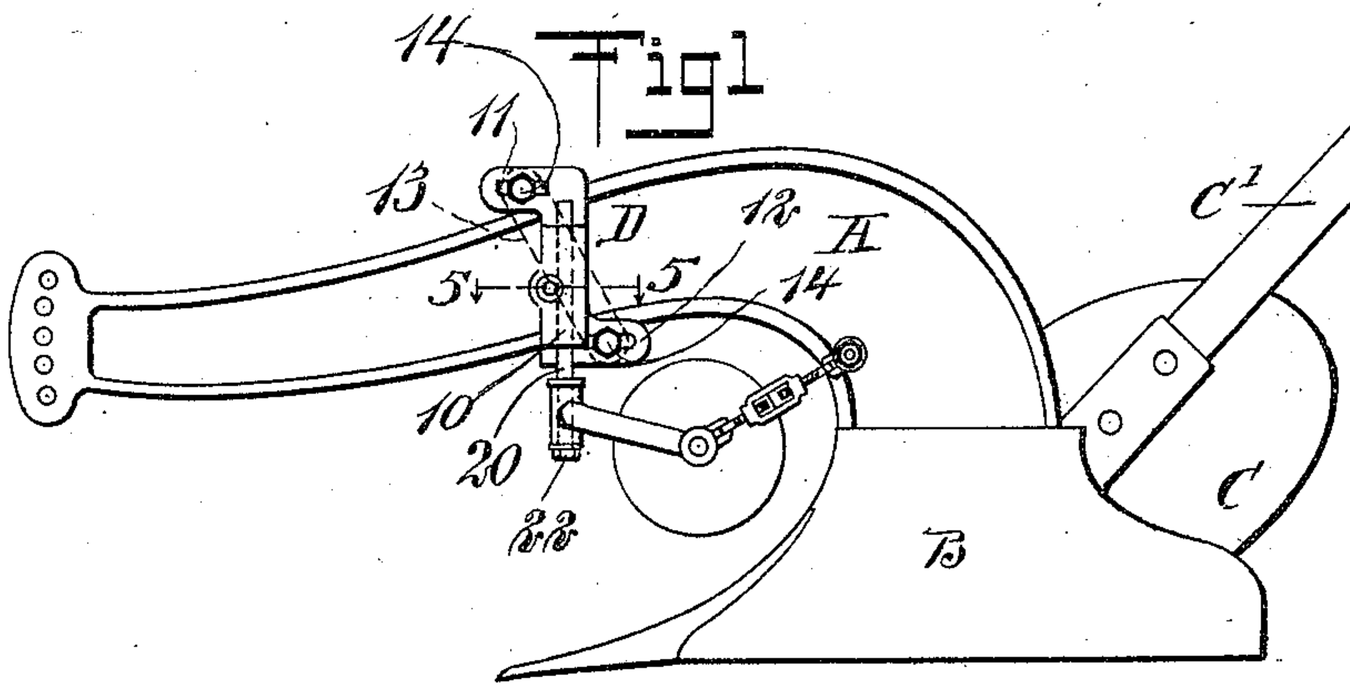


Fig. 2

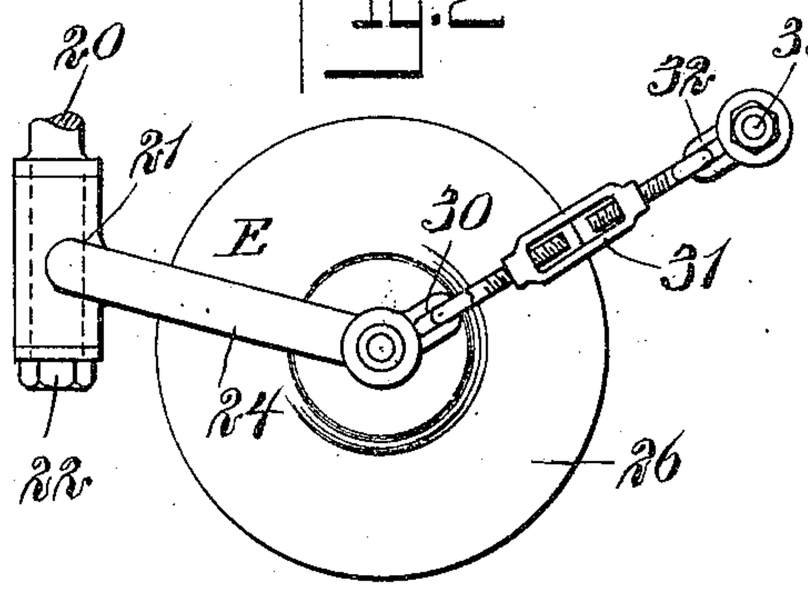


Fig. 3

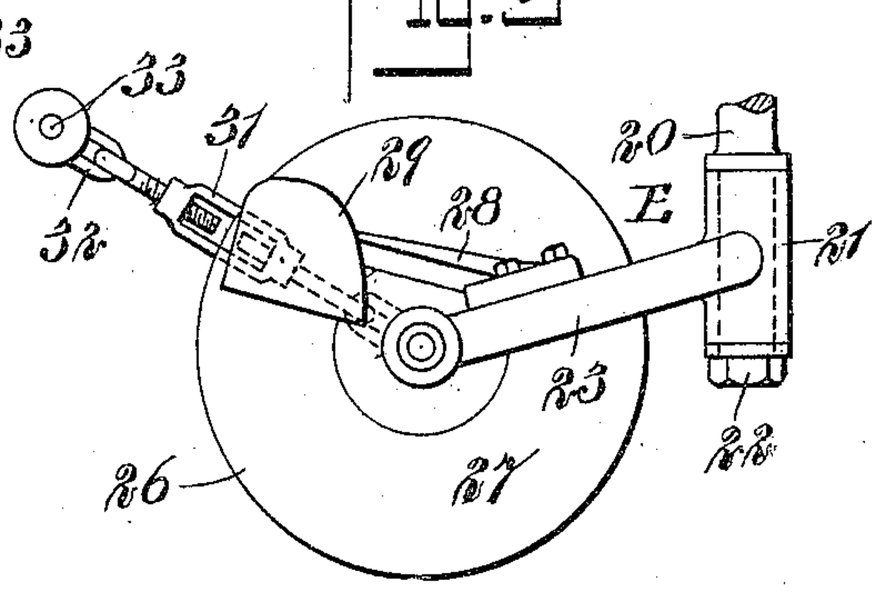


Fig. 4

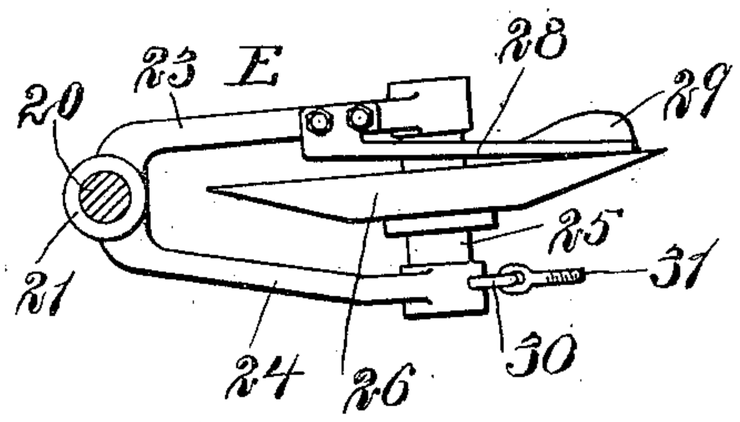
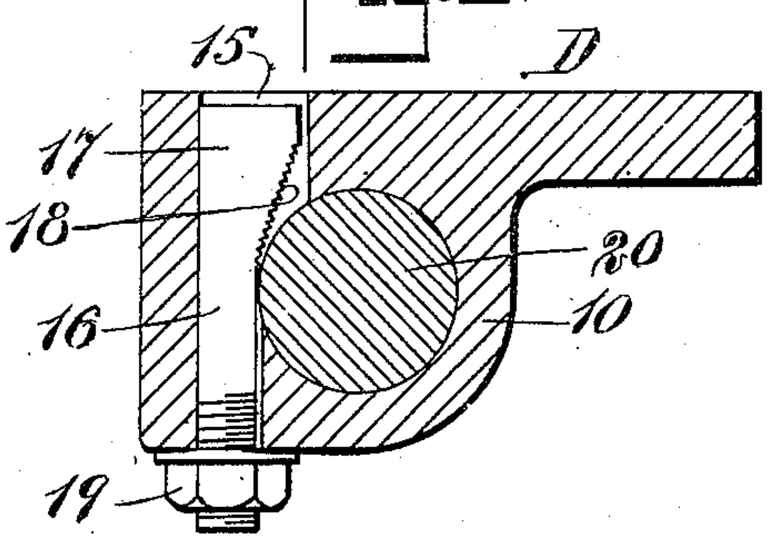


Fig. 5



WITNESSES

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INVENTOR

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DON HENRY DICKINSON, OF PARKER, OREGON.

JOINTER FOR STUBBLE-PLOWS.

No. 840,922. Specification of Letters Patent. Patented Jan. 8, 1907.

Application filed August 30, 1906. Serial No. 332,613.

To all whom it may concern:

Be it known that I, DON HENRY DICKINSON, a citizen of the United States, and a resident of Parker, in the county of Polk and State of Oregon, have invented a new and Improved Jointer for Stubble-Plows, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide an adjustable rolling jointer for stubble-plows which is very simple, durable, and economic in construction, and which will leave a clean furrow, turn all material from the plow-beam, and effectually prevent material clogging on the beam back of the moldboard, and which will also turn all stubble, weeds, and grass cleanly under the furrow.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a plow viewed from the land side and the improved jointer applied thereto. Fig. 2 is a side elevation of the jointer viewed from the landside of the plow. Fig. 3 is a side elevation of the jointer viewed from the moldboard side of the plow. Fig. 4 is a sectional plan view of the jointer, illustrating it in normal position; and Fig. 5 is an enlarged horizontal section through the support for the jointer, the section being taken practically on the line 5 5 of Fig. 1.

A represents a plow-beam, B the landside or the share, C the moldboard, and C′ the handles, of the plow. A bracket D is employed in connection with the beam A, which bracket extends above and below said beam A and is flat where it engages with the beam, as shown in Fig. 5, being provided at its outer face with a vertical tubular extension 10. Said bracket D is provided with upper and lower horizontal members 11 and 12, which extend in opposite directions, and said members are slotted to receive bolts 14, which secure to said members a tie-plate 13, said tie-plate extending diagonally across the beam A at the moldboard side of the plow, as is shown in Fig. 1.

The bracket D, as is shown in Fig. 5, is provided with a horizontal opening 15, extending through from front to rear and communicating with the bore of the tubular extension 10. A bolt 16 is introduced into said opening 15, and the rear end portion 17 of said bolt is made quite wide, the forward longitudinal portion of the bolt being straight; but the rear longitudinal portion of the wider section of said bolt is inclined and serrated or toothed, as is shown at 18 in Fig. 5, so that the inner end portion of the bolt is more or less wedge-shaped. The outer end of the bolt is threaded to receive a suitable nut 19.

A standard 20 is passed through the bore of the extension 10 of the bracket D, and said standard is engaged by the threaded or wedge portion of the bolt 16. By tightening up the nut 19 the standard 20 is firmly held in said bracket D. The standard 20 extends below the bracket D, and upon its lower end a bifurcated frame E is mounted to turn. This frame E is shown best in Fig. 4 and consists of a vertical socket member 21, through which the standard loosely passes, said standard having an enlargement 22 at its lower end. Arms 23 and 24, which extend rearwardly from said socket member, are of different length, the land-side arm 24 being longer than the arm 23, which is at the moldboard side of the plow. A spindle 25 is mounted to turn in the rear ends of the arms 23 and 24 of said frame E, and a disk cutter 26 is secured to said spindle midway between said arms, the moldboard side 27 of which disk is dished or concaved to a greater or lesser extent. Owing to the difference in length between the arms 23 and 24 of the frame E, the disk cutter 26 occupies more or less of a diagonal position, so as to throw the earth it comes in contact with and the weeds and stubble in direction of the moldboard side of the plow and away from the land side.

A bar 28 is secured to the shorter arm 23 of the frame E, and said bar extends in direction of the rear and carries at its rear end a scraper 29, which is in the form of a moldboard and acts in the capacity of a moldboard to the said disk cutter, being in engagement with its dished face 27, as is shown in Figs. 3 and 4, and being more or less at an angle to said face, so that said moldboard-scraper 29 keeps the dished face of the disk 26 perfectly clean and tends to throw off any material which may be inclined to collect thereon in direction of the moldboard of the plow.

An eye 30 is secured to the rear end of the longer arm 24 of the frame E, and one end of a turnbuckle 31 is connected with said eye 30, as shown in Figs. 2 and 3, and the other end of the said turnbuckle is connected with a link 32, which is secured, by means of a bolt 33 or its equivalent, to the beam A just above the moldboard of the plowshare, as is shown in Fig. 1. The diagonal position of the disk cutter 26 enables said cutter to readily turn a corner of a furrow and to cover all material on the ground in addition to directing the material to the moldboard side of the plow.

By manipulating the turnbuckle 31 it is evident that the diagonal position of the disk cutter relative to the forward edge of the plowshare may be changed to accommodate the device to different conditions of work.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a plow, the combination with the beam, of a standard adjustably connected therewith, a frame journaled on the lower end of the standard, and an adjustable connection between the frame and the beam, whereby to fix the frame with respect to said beam.

2. In a plow, the combination with the beam, of a bracket adjustably secured thereto, said bracket being provided on its outer face with a tubular extension and with a transverse opening communicating with the extension, a standard extending into the tubular extension, and having an enlargement on the lower end thereof, a bolt within the opening, said bolt having a wedge-shaped serrated head for engaging the standard whereby to secure it in its adjusted position, a nut outside of the extension and engaging the bolt, whereby to force the head into contact with the standard, a frame journaled on the lower end of the standard above the enlargement, and means for fixing the frame with respect to the beam.

3. In a plow, the combination with the beam thereof, a bracket secured to the beam, a standard carried by said bracket, and a locking device for the standard also carried by said bracket, of a socket-section mounted to turn on the standard below the beam, and opposing arms extending rearwardly from said socket-section, the land-side arm being the longest, a spindle journaled in said arms, a disk cutter secured to said spindle, dished at its moldboard side, means for adjustably connecting the disk cutter to the beam, and a moldboard supported by one of said arms and acting in conjunction with the dished face of the cutter.

4. In a plow, the combination with the beam, of a bracket adjustably secured thereto, said bracket having a tubular extension on the outer face thereof, and a transverse opening communicating with the extension, a standard in the tubular extension, a bolt within the opening and having a wedge-shaped head for engaging the standard whereby to secure it in its adjusted position, a frame rotatably mounted on the lower end of the standard, a disk cutter journaled in the frame, and means connected with the frame for retaining the cutter in position with respect to the plow.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DON HENRY DICKINSON.

Witnesses:
B. WILSON,
JOHN DICKINSON.