

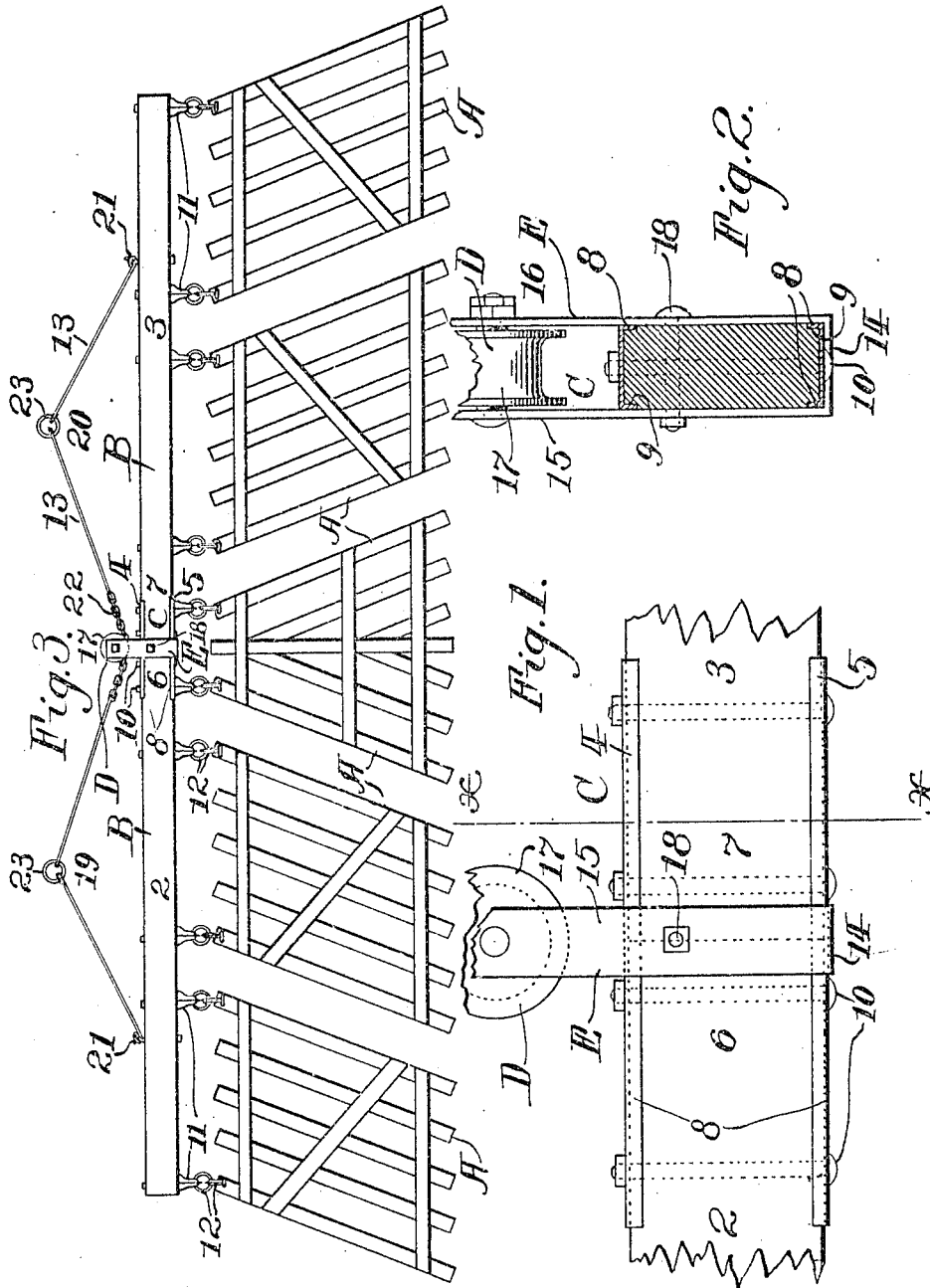
J. H. ANDERSON.
DRAW BAR SPLICE.

APPLICATION FILED AUG. 9, 1909.

Patented Mar. 1. 1910.

2 SHEETS—SHEET 1.

950,648.



Witnesses:
J. H. Donovan.
H. L. Fischer

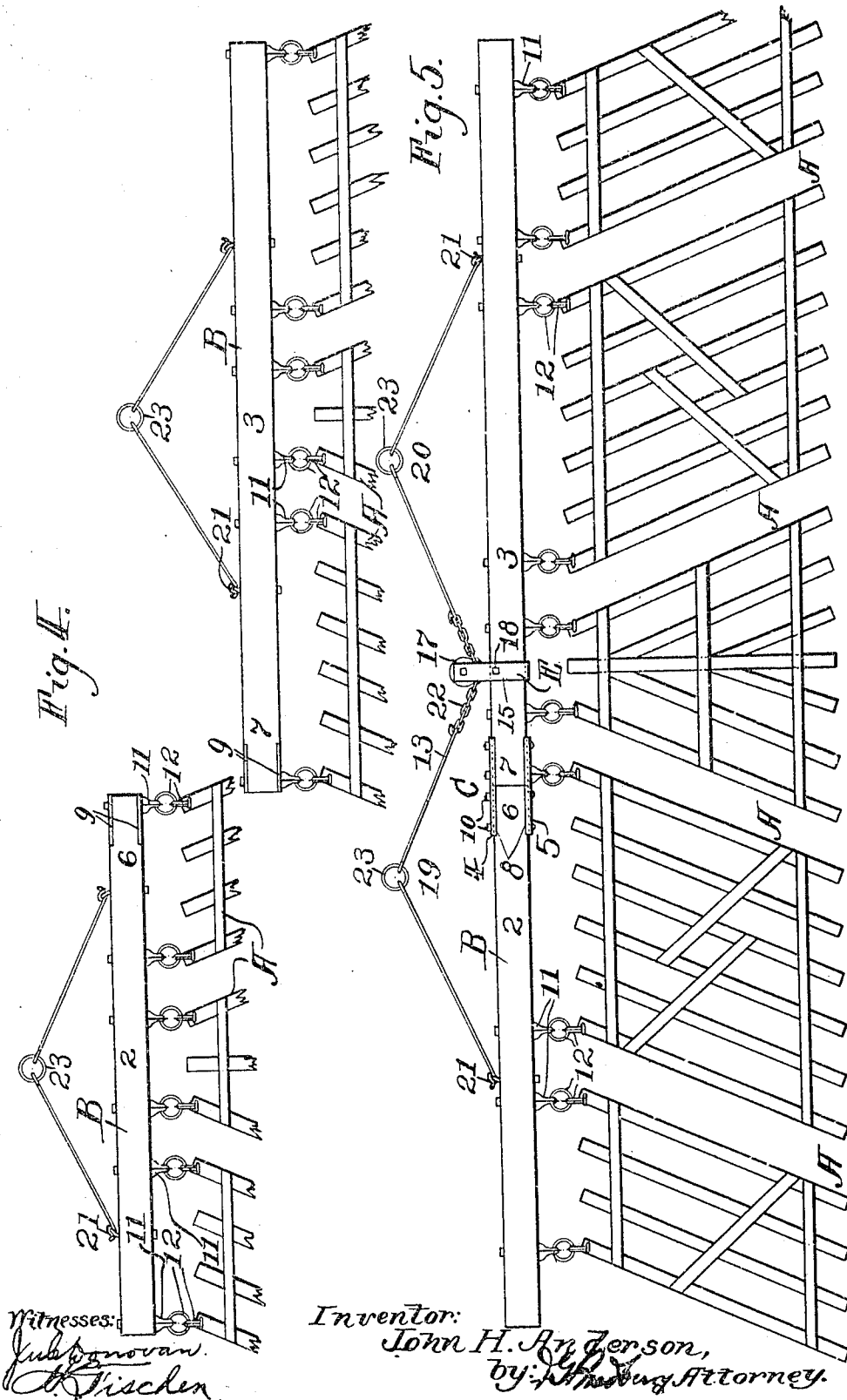
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John H. Anderson,
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Attorney.

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Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN H. ANDERSON, OF ST. PAUL, MINNESOTA.

DRAW-BAR SPLICE.

950,648.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed August 9, 1909. Serial No. 511,907.

To all whom it may concern:

Be it known that I, JOHN H. ANDERSON, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Draw-Bar Splices, of which the following is a specification.

My invention relates to an improved draw bar splice and has for its primary object a device of its kind which is inexpensive in construction, effective in use and adapted to produce a strong and rigid separable joint between sections of a draw bar.

Heretofore, it has been customary in making a splice between sections of a draw bar to bolt flat plain plates to the sides of the abutting ends of the sections and such construction has not permitted the sheave to be fastened at a point on the draw bar where a joint is made and has been weak and liable to disorder. With my invention these defects are overcome and the joint is actually stronger than the remainder of the draw bar. Less metal is also required for producing a strong and rigid joint.

In the accompanying drawings forming part of this specification, Figure 1 is a plan view of a detail of two abutting ends of sections of a draw bar; Fig. 2 is a section of Fig. 1 taken on the line X—X; Fig. 3 is a plan of a harrow showing two sections of equal length of a draw bar, joined together by my improved splice; Fig. 4 is a plan of two sections of a harrow illustrating two draw bars of unequal length prepared to be joined together by my improved splice, and Fig. 5 is a plan showing the sections illustrated in Fig. 4 assembled.

In the drawings A represents harrow frames of usual construction and B a draw bar composed of sections 2 and 3. These sections are united endwise by my improved splice C which is produced by bolting or otherwise fastening a pair of oppositely disposed channel plates 4 and 5 over two abutting ends 6 and 7 of said sections. The channel plates 4 and 5 are placed with their flanges 8 over the edges of the sections of the draw bar, said flanges being let into the sides of said sections, recesses 9 being provided in the sides of said sections for that purpose. Bolts 10 are passed through the channel plates and sections of the draw bar to secure the parts firmly together. The harrow frames are loosely fastened to the draw bar

in the usual manner such as by means of hooks 11 on the draw bar sections and links 12 between said hooks and the harrow frames. A sheave D is carried by the draw bar over which the flexible evener 13 plays.

The sheave frame E in which the sheave pulley 17 is carried, consists of a single plain faced plate bent substantially midway between its ends forming a back 14 and two parallel adjacent sides 15 and 16. The sheave pulley 17 is journaled between the outer ends of these sides. The sheave frame is passed freely over the draw bar at the junction of the ends of the sections which are fastened together by my improved splice. The flanges 8 and 9 of the plates 4 and 5 being let into the sides of the sections of the draw bar, permit the sheave frame to slide freely over the splice and make a snug connection with the draw bar, where as with prior devices the sheave frame will not fit snugly over the splice and any other part of the draw bar. A single bolt 18 passed through the draw bar at the junction of the sections thereof, secures the sheave frame rigidly in place.

The flexible evener is formed by cable sections 19 and 20 the outer ends of which are fastened at 21 to the forward edge of the draw bar. A section of chain 22 playing over the sheave pulley 17 is interposed between the sections of said cable. Links 23 are inserted in the sections of the flexible cable for attachment to means by which the harrow is drawn.

In assembling the sections of the draw bar, the parts of my improved splice including the sheave may be easily and quickly fastened together to produce an efficient and effective harrow.

As illustrated in Figs. 4 and 5 the sections of the draw bar are of unequal length and the splice channel plates are fastened over their abutting ends in the same manner as illustrated in Figs. 1 and 3. The sheave frame, however, is not secured to the draw bar over the splice but is fastened directly to the section 3.

In accordance with the patent statutes I have described the principles of operation of my invention together with apparatus which I now consider to represent the best embodiment thereof, but I desire to have it understood that the construction shown is only illustrative and that the invention can

be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

5 Having described my invention, what I claim as new and desire to protect by Letters Patent is:—

1. A device of the class set forth, comprising, a sectional draw bar having ends of said sections abutting, a pair of channel
10 plates with flanges over the edges of the abutting ends of said sections, said flanges of said channel plates lying substantially flush with the sides of said sections, and bolts passing through said channel plates
15 and the sections of said draw bar to unite said parts together.

2. In an agricultural implement, a sectional bar having its ends abutting, a pair of oppositely disposed channel plates provided with flanges substantially throughout
20 their lengths, said plates extending over the joint between the sections, and means for securing said channel plates on said sections to unite said parts together.

25 3. A device of the class set forth, comprising, a sectional draw bar having ends

of said sections abutting, a pair of channel plates with flanges over the edges of the abutting ends of said sections, said flanges of said channel plates lying substantially
30 flush with the sides of said sections, means passing through said channel plates and sections for uniting said parts together, a sheave frame comprising a plate bent substantially midway between its ends forming a pair of oppositely disposed parallel
35 sides extending over the sides of the sections of the draw bar and the flanges of said splice plates, a sheave pulley journaled between the sides of said sheave frame, and
40 a bolt passing through the sides of said sheave frame and the joint between the sections of said draw bar to assist in uniting all of said parts together.

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

JOHN H. ANDERSON.

Witnesses:

H. L. FISCHER,

F. G. BRADBURY.