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PATENTED AUG. 6, 1907.

S. E. DAVIS & T. BRENNAN, JR.
DRAG BAR HANGER FOR SEEDING MACHINES.
APPLICATION FILED FEB. 5, 1907.

Fig. 1.

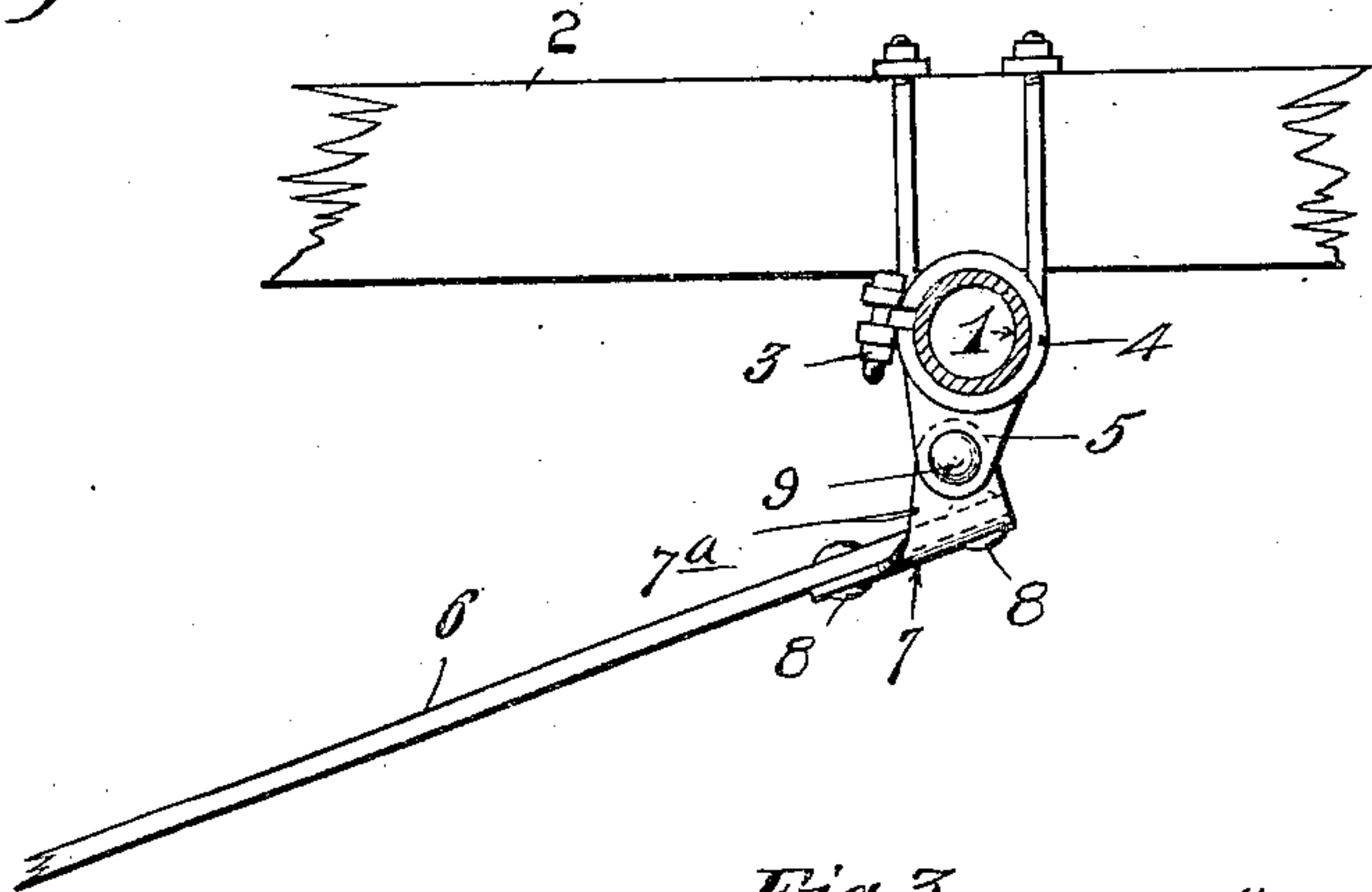


Fig. 2.

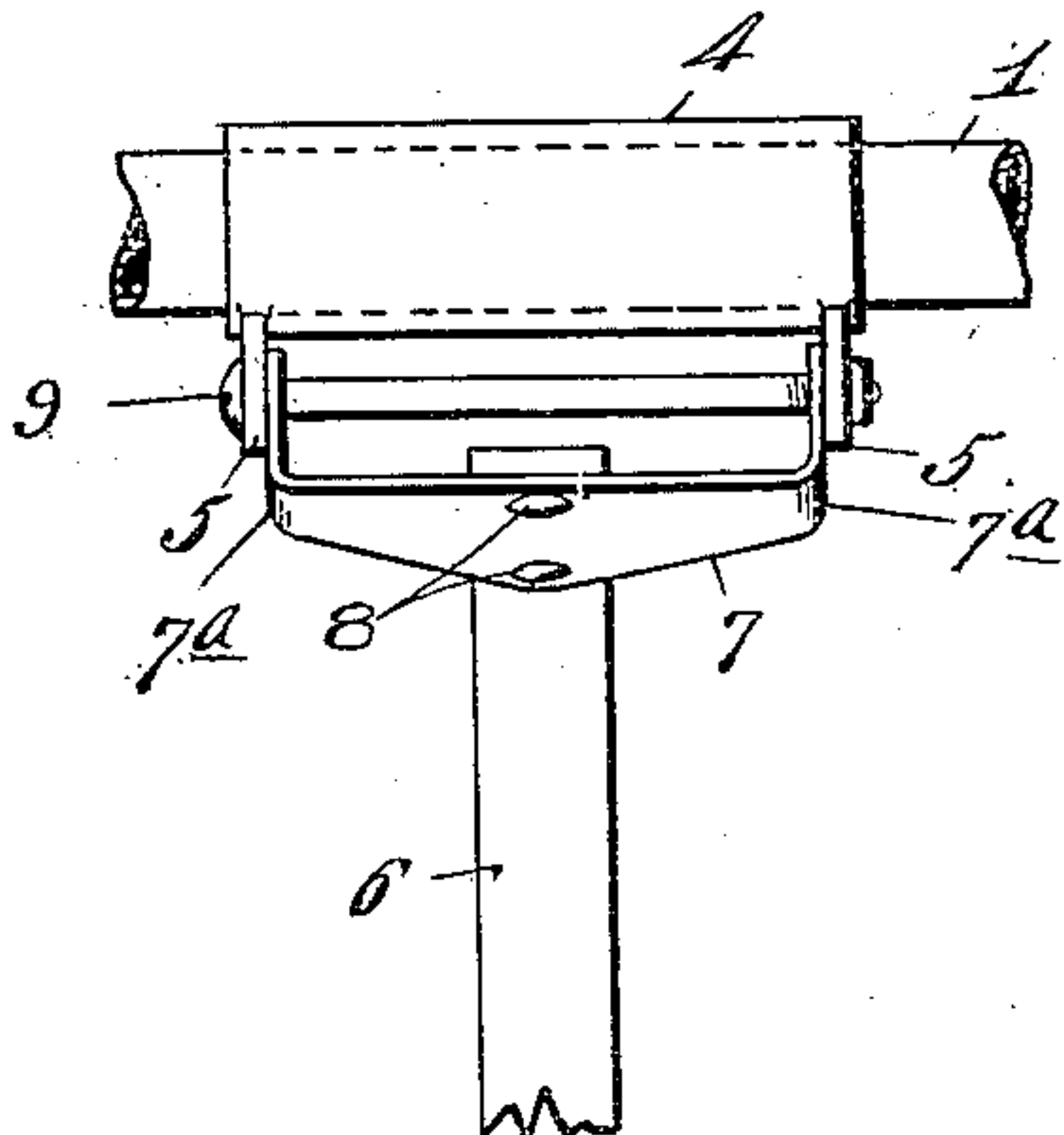


Fig. 3.

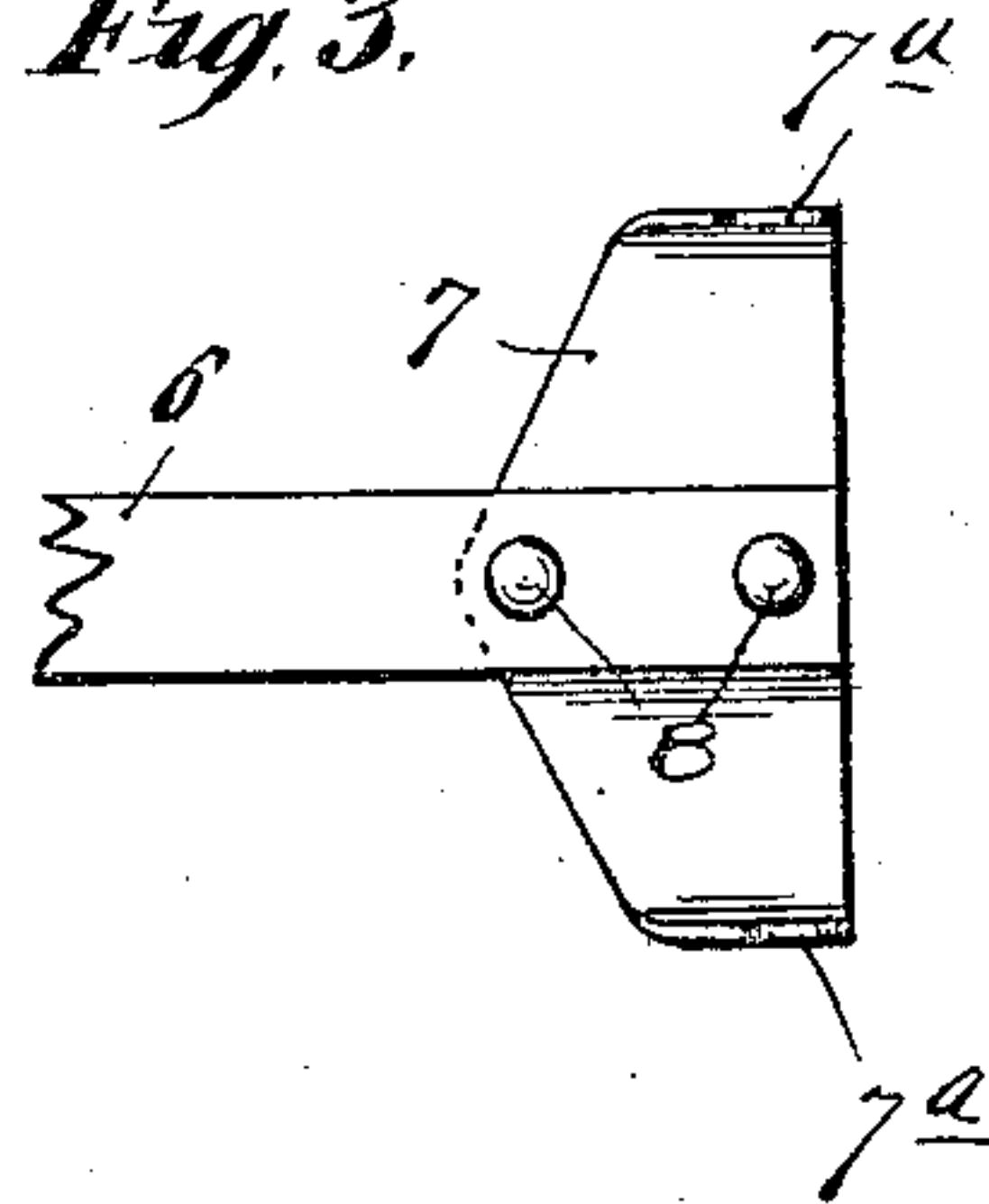
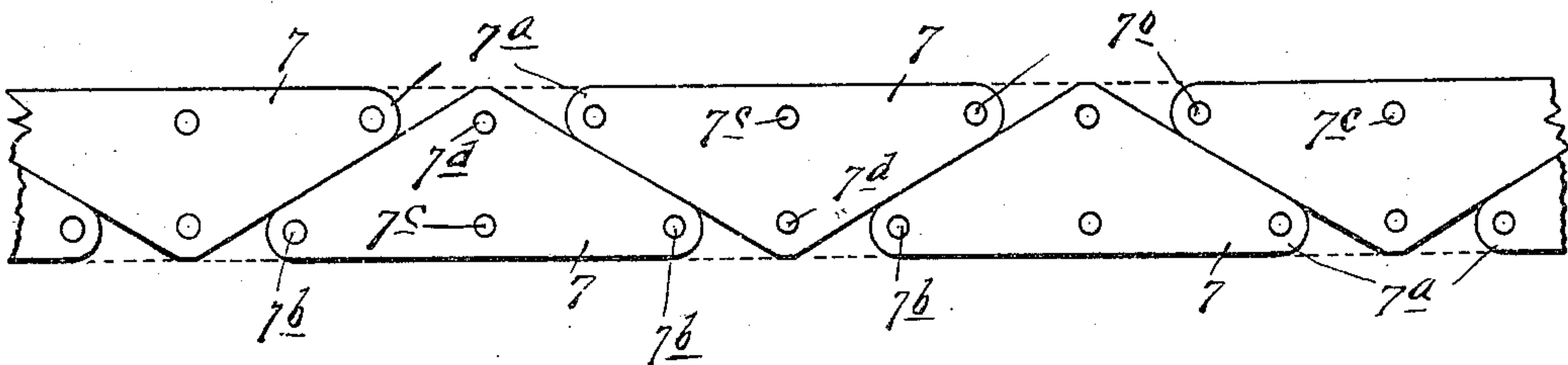


Fig. 4.



Witnesses.
J. D. Kilgore

A. H. Opsahl

Inventors,
Spencer E. Davis,
Thomas Brennan, Jr.,
By their Attorneys,

Williamson Merchant

UNITED STATES PATENT OFFICE.

SPENCER E. DAVIS, OF MINNEAPOLIS, AND THOMAS BRENNAN, JR., OF ST. LOUIS PARK, MINNESOTA.

DRAG-BAR HANGER FOR SEEDING-MACHINES.

No. 862,812.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed February 5, 1907. Serial No. 355,779.

To all whom it may concern:

Be it known that we, SPENCER E. DAVIS and THOMAS BRENNAN, Jr., citizens of the United States, residing, respectively, at Minneapolis and St. Louis Park, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Drag-Bar Hangers for Seeding-Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention has for its object to provide improved drag bar hangers for seeding machines, and to this end it consists of the novel construction and combination of parts hereinafter described and defined in the claims.

Drag bar hangers, as generally used, are constructed of malleable iron castings. These malleable iron castings are expensive, and furthermore, must be made in plants especially designed for malleable work. A common result from these facts is that work is delayed because orders for these malleable castings are not timely filled.

Our invention provides extremely simple, very cheap and highly efficient drag bar hangers which are stamped or pressed from thin bars or narrow sheets of rolled iron or steel, and which are riveted to the drag bars and are adapted to be pivotally coupled to suitable lugs or ears directly or indirectly secured to the transverse front bar of the machine frame.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a detail view partly in elevation and partly in vertical section, with some parts broken away, showing one of our improved drag bar hangers applied to pivotally connect a drag bar to the transverse front beam of the frame of a seeding machine. Fig. 2 is a detail in front elevation of the parts shown in Fig. 1. Fig. 3 is a plan view showing the improved drag bar hanger and a portion of the drag bar to which it is secured; and Fig. 4 is a diagrammatic view illustrating the economical manner in which the drag bar hangers may be cut from a flat strip or bar of sheet steel or other metal.

The numeral 1 indicates the transverse front bar of a frame 2 of a seeding machine. As shown, the said bar 1 is in the form of a pipe to which is rigidly secured, by short nutted bolts 3, a slit sleeve 4 having perforated lugs or ears 5. The parts just described are standard construction and in themselves form no part of our present invention.

The numeral 6 indicates the drag bar, to the forward end of which is rigidly secured our improved drag bar hanger 7. This drag bar hanger is formed from an approximately triangular piece of sheet steel or metal having its acute angular ends turned up parallel to each other, and at a right angle to the body of said hanger, to form ears 7^a, which ears are provided with perforations 7^b. The hanger 7, midway between but in line with the perforations 7^b, is provided with a perforation 7^c, and near the apex of its obtuse angle is provided with a perforation 7^d. The hanger 7 is preferably rigidly secured to the drag bar 6 by rivets 8 passed through the perforations 7^c—7^d and through perforations in said drag bar. The hanger is pivotally but detachably coupled to the ears 5 by a nutted bolt 9 passed through said ears 5 and through the upturned perforated ears 7^a of said hanger.

The drag bar hangers, stamped and pressed in the triangular form described, may be cut from a bar of sheet steel or metal with but very slight resulting waste, which fact is clearly illustrated in Fig. 4. Also, it is important to note that by this triangular form the rivets 8 are set far apart so that they are given large leverage action in resisting all movements of the hanger with respect to the drag bar.

The hanger described has been put into actual use and has been found not only simple and cheap to construct, but highly efficient in use.

What I claim is.

1. A drag bar for a seeding machine having secured thereto a hanger in the form of an approximately triangular sheet metal plate having its oppositely projecting ends perforated and turned upward to form coupling ears, substantially as described.

2. The combination with a drag bar for a seeding machine, of a drag bar hanger in the form of a cut and stamped triangular sheet metal plate 7, having upturned ends 7^a with perforations 7^b and having the intermediate perforations 7^c—7^d, and rivets 8 passed through said intermediate perforations 7^c—7^d, and through perforations in said drag bar, and rigidly securing said drag bar to the intermediate and widest portion of said hanger, substantially as described.

3. A drag bar for a seeding machine having secured thereto a hanger in the form of a sheet metal plate having a relatively wide intermediate portion and tapering towards its ends, and turned up at its ends to form coupling ears, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

SPENCER E. DAVIS.
THOMAS BRENNAN, JR.

Witnesses:
MALIE HOEL,
F. D. MERCHANT.