

No. 785,890.

PATENTED MAR. 28, 1905.

R. JONES.

PLOW.

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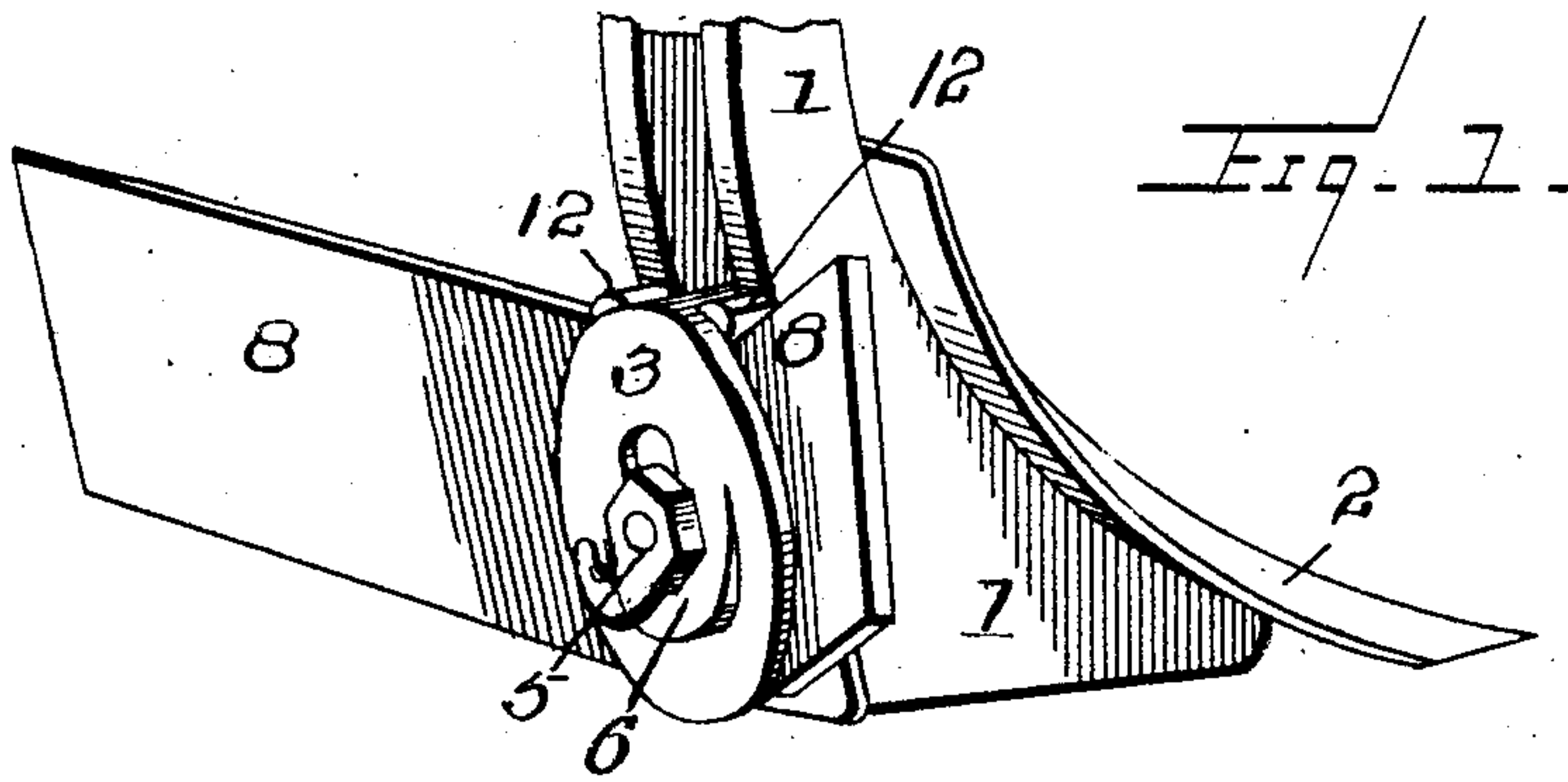


Fig. 1.

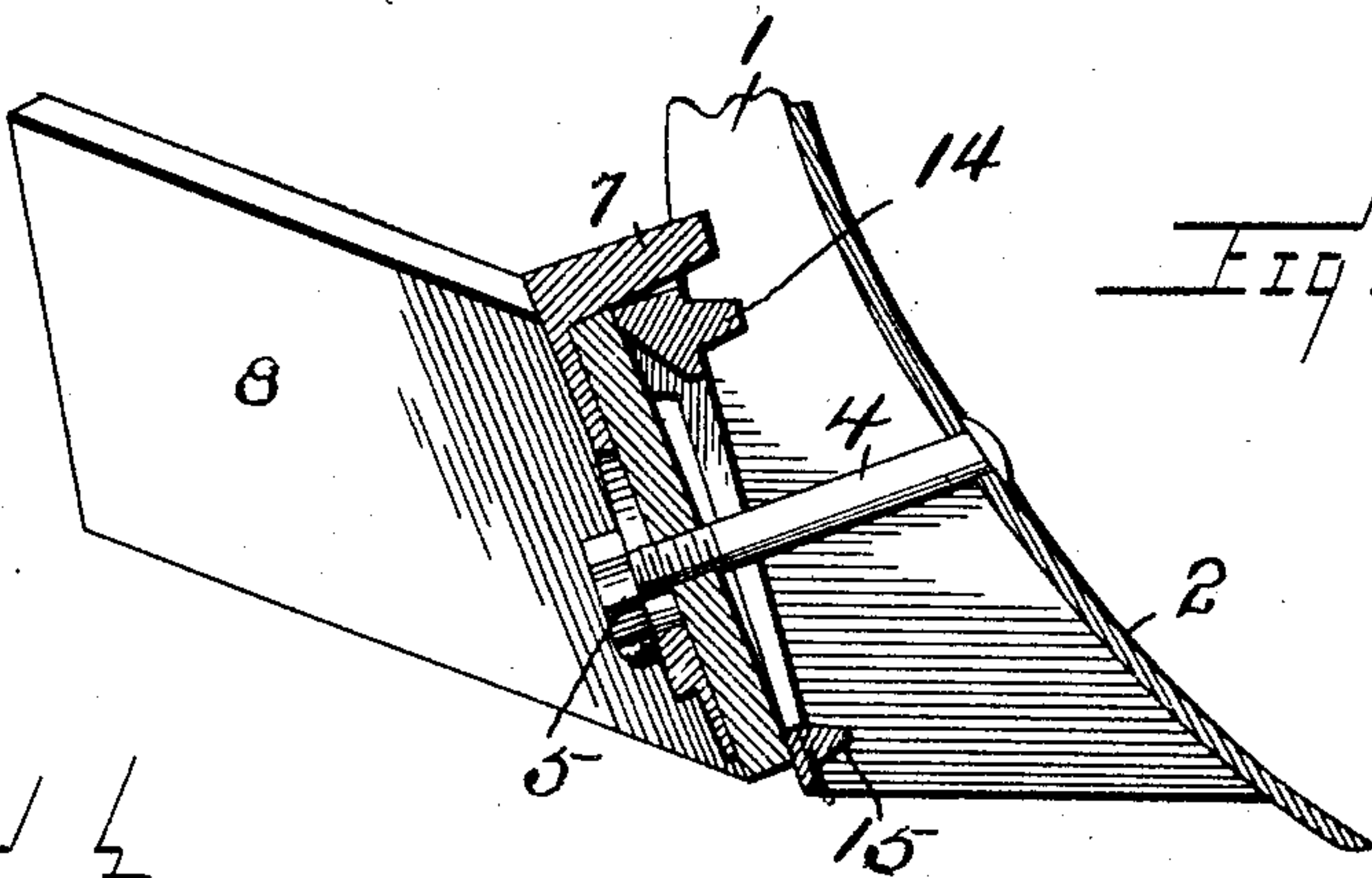


Fig. 2.

Fig. 3.

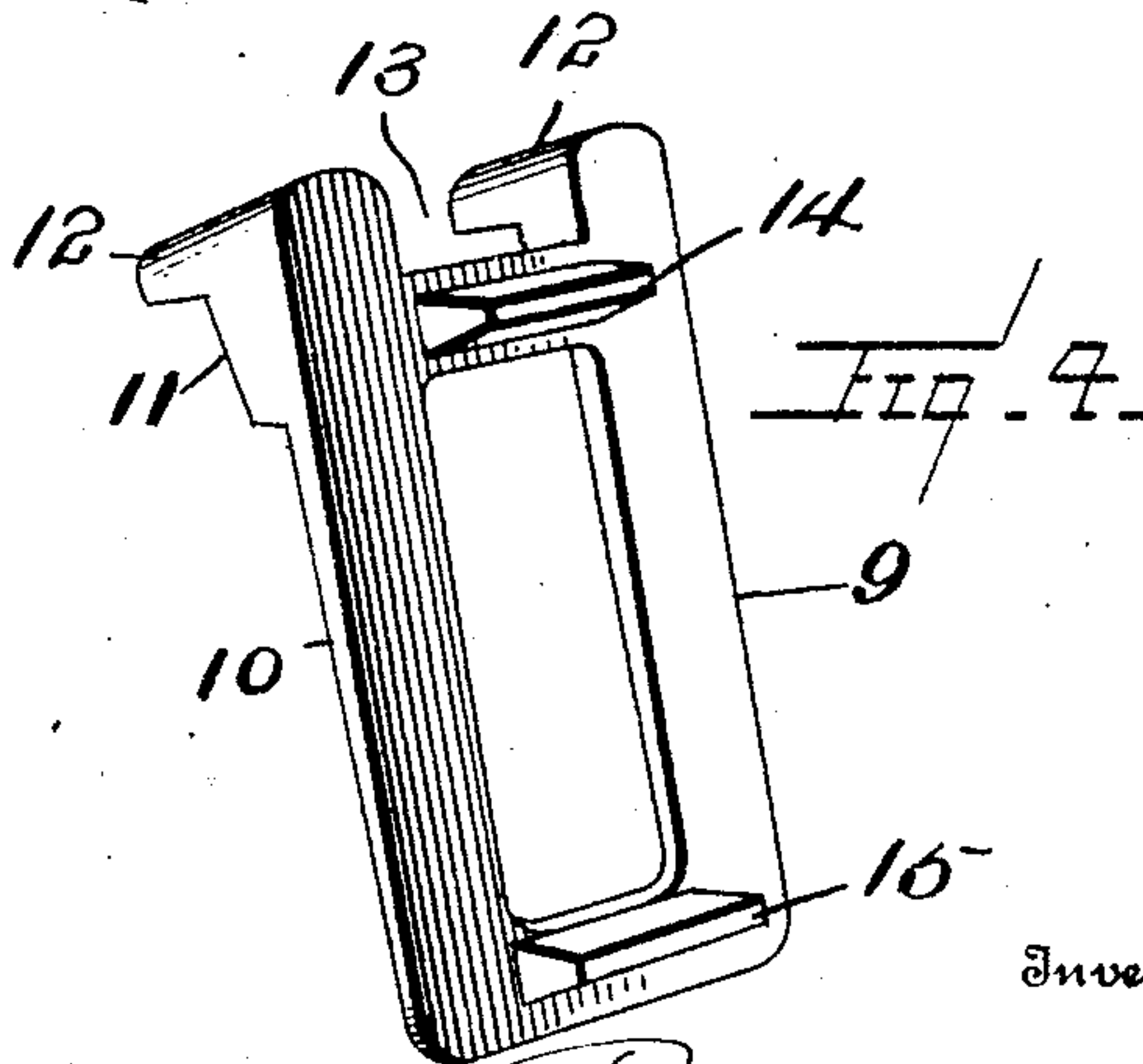
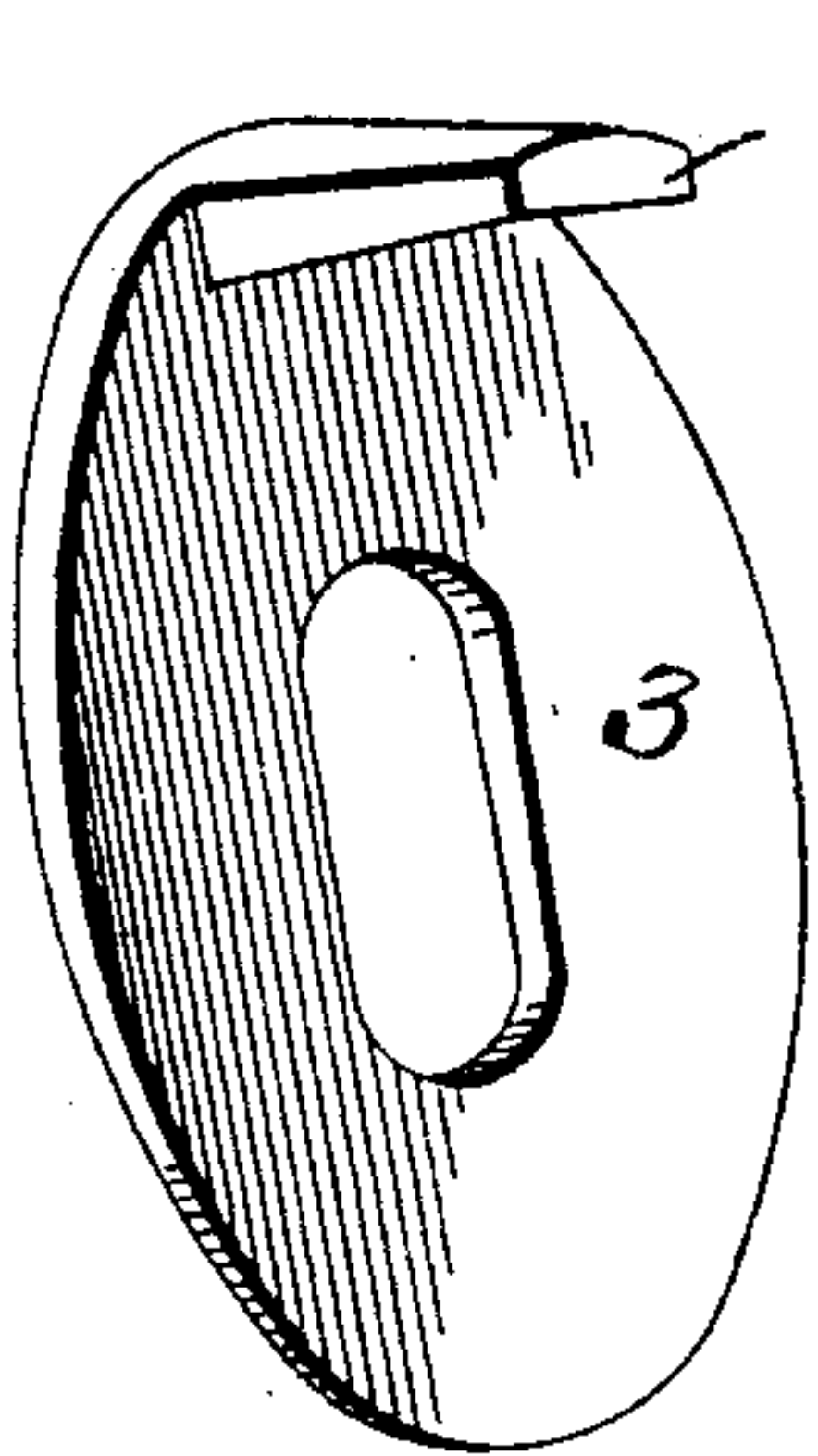


Fig. 4.

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UNITED STATES PATENT OFFICE.

REUBEN JONES, OF CHAMBLEE, GEORGIA, ASSIGNOR OF ONE-HALF TO
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PLOW.

SPECIFICATION forming part of Letters Patent No. 785,890, dated March 28, 1905.

Application filed September 20, 1904. Serial No. 225,193.

To all whom it may concern:

Be it known that I, REUBEN JONES, a citizen of the United States, residing at Chamblee, in the county of Dekalb and State of Georgia, have invented certain new and useful Improvements in Plows, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to plows, and more particularly to that class wherein heel-sweep attachments are used, the object being to provide a device of the character hereinafter described that shall be simple and effective in operation and inexpensive in construction.

The invention herein described is intended as an improvement on that described in United States Patent No. 589,374, granted to me August 31, 1897. In that invention the object was to provide means for the perfection of the attachment of blades to the standard, whereby their rigidity might be insured, and to provide a stiffener which would prevent the slipping and bending of heel-sweeps, and, further, to provide an adjustment for such sweeps and such other forms of plow-blades as may be capable of use with said form of adjustment, whereby their angle may be altered and their operations varied to any practical extent. The objects of the invention hereinafter described, illustrated, and claimed are substantially the same, with the additional ones of furnishing a washer for the heel tap or bolt, which also stiffens the heel-sweep in the center, and also means for preventing the sweep from turning on the foot of the plow-standard without strain on the heel-bolt.

In the drawings forming a part of this specification, Figure 1 is a perspective view of the lower end of a plow-standard, showing my improved heel-sweep attachment in place. Fig. 2 is a vertical section through the same. Fig. 3 is a detail view of the washer or plate. Fig. 4 is a detail view of the auxiliary plate.

Corresponding numerals of reference designate like parts in all the views.

1 designates the plow-standard, having thereon the plow share or blade 2.

3 designates a cam-shaped plate or washer of any suitable material, but preferably mal-

leable iron, and having therein an elongated slot or hole through which the heel-bolt 4 passes and is held in place by an ordinary nut 5. This plate or washer is also provided with a cam 6 at one end of said elongated slot, and is further provided with a projecting lug 7 at its upper end. The heel-bolt 4 passes through a hole in the heel-sweep and also between the side bars forming the standard 1 and through the plow share or blade.

8 designates the heel-sweep, which may obviously be of any desired construction and material, but preferably formed of a single strip of steel.

9 designates another plate having an elongated slot therein. This plate is provided with a cam or stepped surface, (indicated by 10 and 11.) It is also provided with two outwardly-projecting lugs 12 on one side of its upper end and a notch or kerf 13 between the lugs, as best shown in Fig. 4. On the opposite side of said plate near its upper end is a lug or projection 14, and a similar lug or projection 15 is arranged on the same side near its lower end.

In operation the plate 9 is placed against the side bars of the standard 1, with the lugs 14 and 15 extending between them. The heel-sweep is placed against the front of said plate and rests on the stepped or cam surface 10 and 11, as shown, the upper edge thereof engaging with the lugs 12. The washer or plate 3 is then placed against the heel-sweep, with the lug 7 resting in the notch or kerf 13 between the lugs 12 and extending between the side bars of the standard 1. The heel-bolt is then placed in position and the nut 5 placed on the threaded end and tightened. It is also obvious that the washer or plate 3 can be effectively used by itself without the aid of plate 9 to hold the heel-sweep in place, the object of the plate being to add to the serviceability of the washer or plate 3 by forming a backing for the heel-sweep and to more effectually hold the same in any desired position in which it may be placed by the operator.

While I have described and illustrated a preferred embodiment of my invention, it will be apparent that changes may be made in the

form and arrangement of parts without departing from the principle or sacrificing any of the advantages of the invention.

Having thus described my said invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a plow, a heel-sweep stiffener comprising a washer having an elongated slot, a cam located on one side beneath the slot, and a projection on the opposite side, substantially as described.

2. In a plow, a heel-sweep stiffener comprising a cam-shaped washer or plate, an outwardly-projecting lug on the upper end thereof, an auxiliary plate having a cam or stepped surface on one side thereof, and a plurality of outwardly-projecting lugs arranged on both sides thereof, substantially as described.

3. In a plow, a heel-sweep stiffener comprising a cam-shaped plate or washer arranged to engage with one side of the heel-sweep, an outwardly-projecting lug on its upper end, an auxiliary plate arranged to engage with the opposite side of the heel-sweep, said auxiliary plate being provided with a cam or stepped surface on one of its sides, and having a plurality of outwardly-projecting lugs arranged on both sides thereof, substantially as described.

4. In a plow, a heel-sweep stiffener comprising a washer or plate having an elongated slot therein, and an inclined or cam surface on one of its sides, a lug or projection on the opposite side at the upper end, an auxiliary plate having an elongated slot therein, and a cam or stepped surface on one of its sides terminating in a plurality of lugs, and a plurality of lugs arranged on the opposite side of said plate, substantially as described.

5. In a plow, a heel-sweep stiffener comprising a washer or plate having an elongated slot therein, and an inclined or cam surface on one of its sides, a lug or projection on the opposite side at the upper end, said plate being arranged to engage one side of the heel-sweep, an auxiliary plate having an elongated slot therein, and a cam or stepped surface on one of its sides, said auxiliary plate being arranged to engage the other side of the heel-sweep, and a plurality of outwardly-projecting lugs arranged on each side of said auxiliary plate, substantially as described.

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

REUBEN JONES.

Witnesses:

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