

No. 819,029.

PATENTED APR. 24, 1906.

L. STIMART.
BEET HARVESTER.

APPLICATION FILED JULY 20, 1905.

Fig. 1.

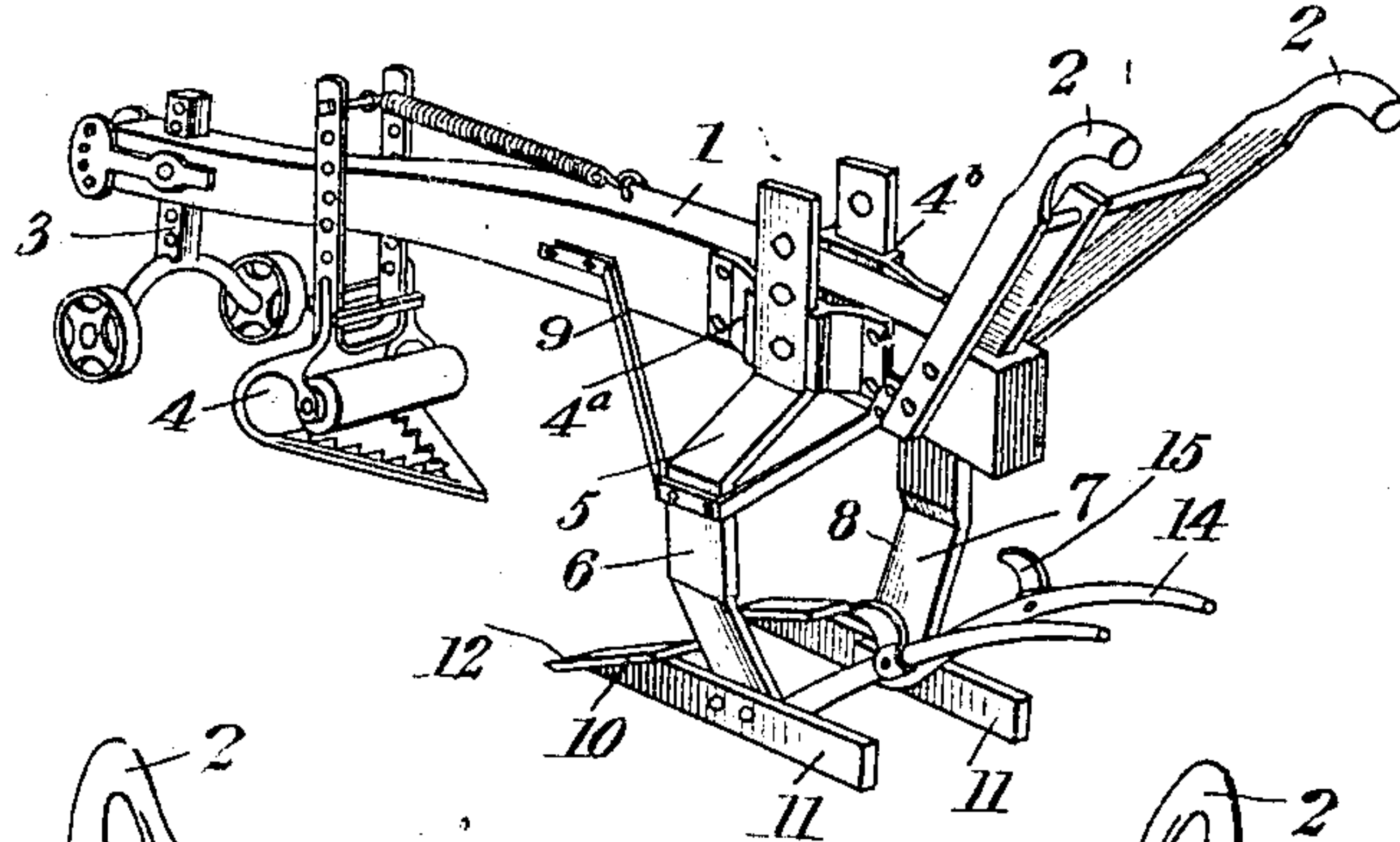


Fig. 3.

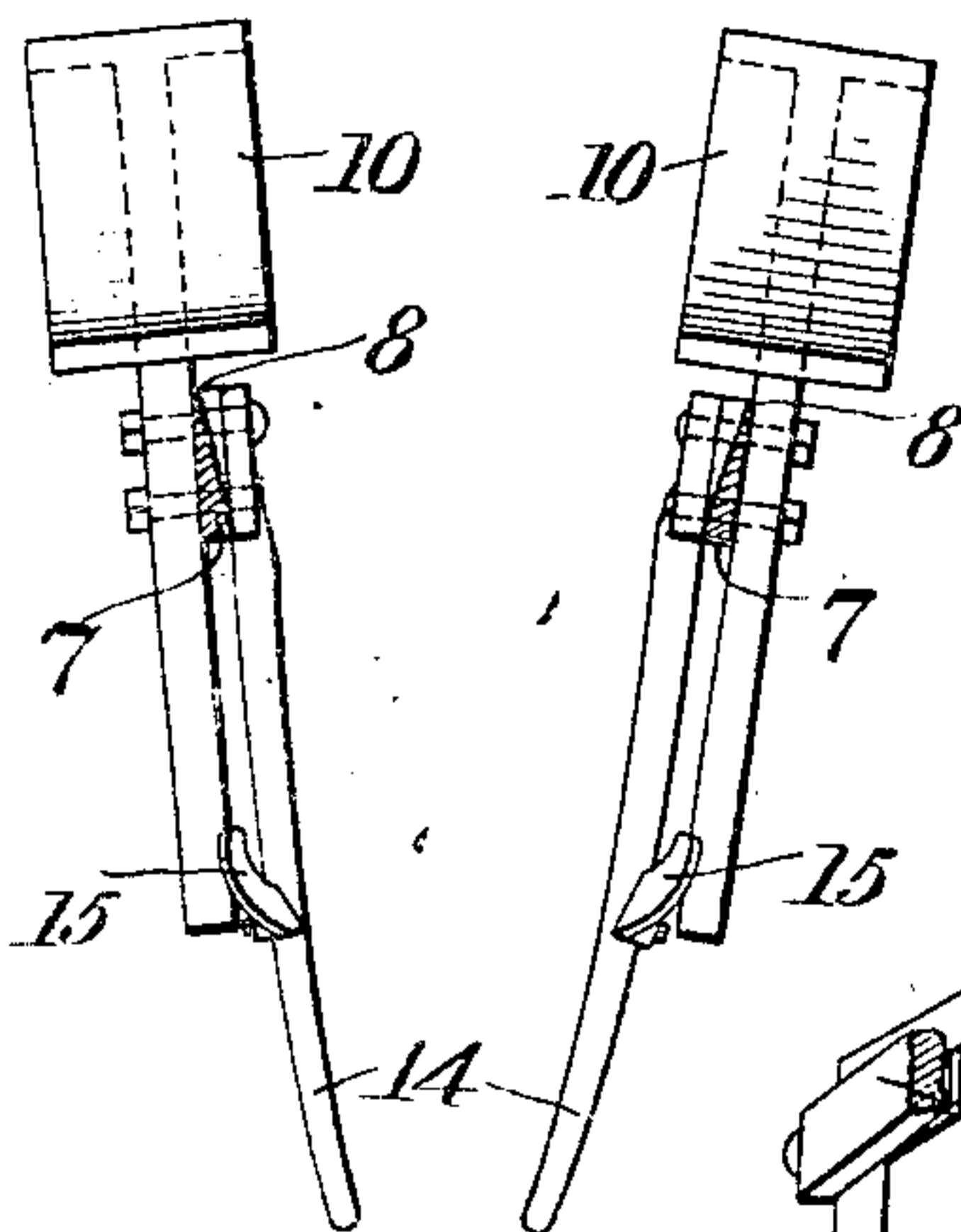
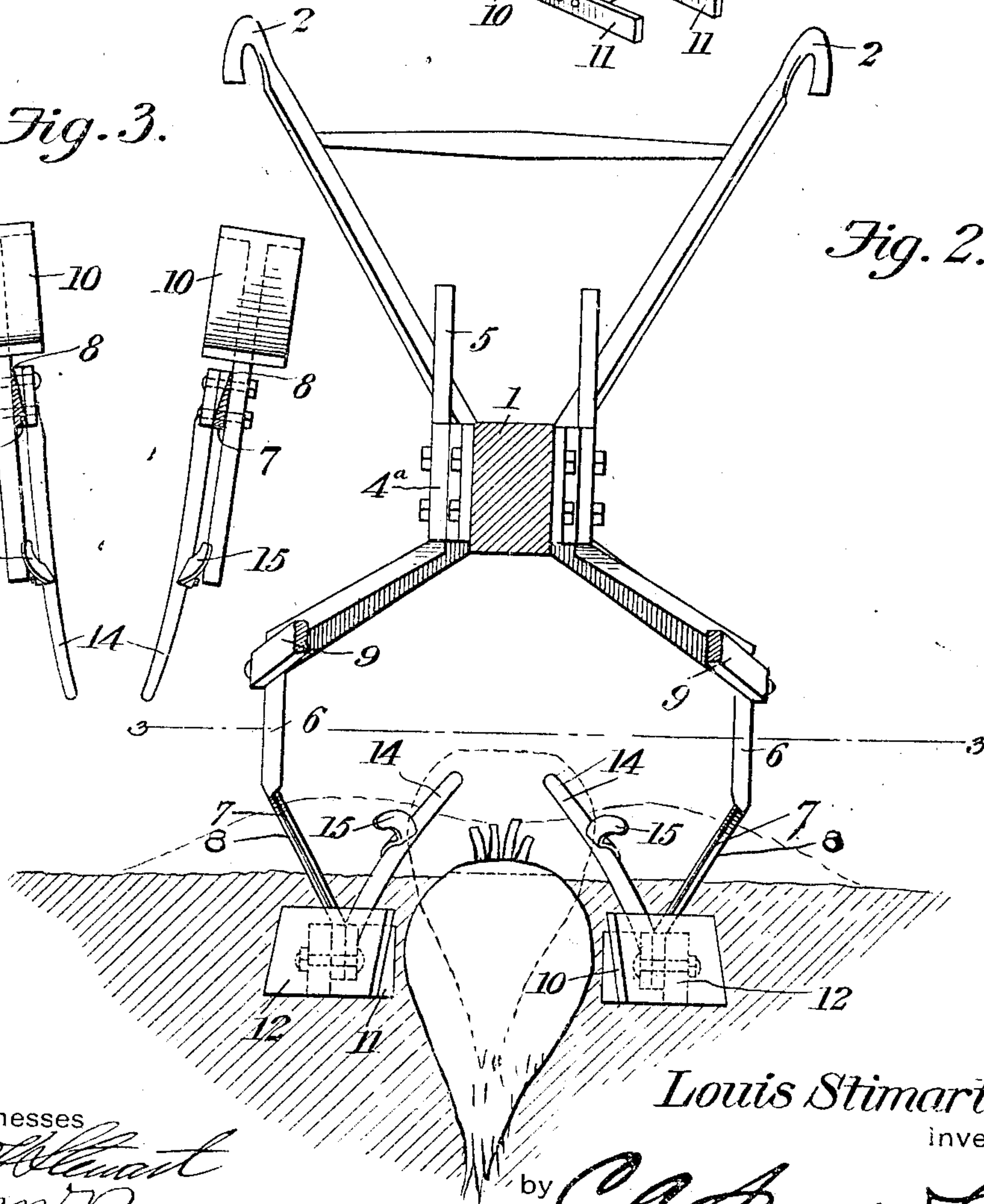


Fig. 2.



Witnesses

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LOUIS STIMART, OF GREEN BAY, WISCONSIN.

BEET-HARVESTER.

No. 819,029.

Specification of Letters Patent.

Patented April 24, 1903.

Application filed July 20, 1905. Serial No. 270,550.

To all whom it may concern:

Be it known that I, LOUIS STIMART, a citizen of the United States, residing at Green Bay, in the county of Brown and State of Wisconsin, have invented a new and useful Beet-Harvester, of which the following is a specification.

This invention relates to beet-harvesters, and especially to the beet-lifting means for such harvesters; and it has particular reference to the means for lifting the beets after being topped, it being understood, however, that said mechanism is equally well adapted for the purpose of lifting beets from which the tops have not been removed.

The invention then consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to any changes, alterations, and modifications to which recourse may be had within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

In said drawings, Figure 1 is a perspective view of a beet-harvester including the invention. Fig. 2 is a sectional front elevation showing the same in operative position enlarged. Fig. 3 is a sectional view taken on the plane indicated by the line 3 3 in Fig. 2.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The improved machine includes a beam 1, having handles 2 2, whereby it may be guided, the front end of the beam being supported upon a truck 3. Supported upon the beam in rear of the truck 3 is the topping mechanism, generally designated by the numeral 4, and which, as aforesaid, is the subject of a copending application.

To the sides of the beam, near the rear end of the latter, are bolted or otherwise suitably secured two spacing and supporting plates 4^a, having recesses 4^b, in which are mounted colter members 5, which below the beam are offset or outwardly expanded, as clearly indicated at 6. The colter members are provided with inwardly-converging or inset

members 7, which are forwardly beveled to form sharp cutting edges 8 in order that said colter members may readily penetrate into and cut through the soil adjacent to the row of beets which is to be operated upon. The colter members are reinforced by means of braces 9, being thus enabled to resist any amount of strain to which in practice they will be liable to be subjected.

Suitably secured to the lower ends or extremities of the members 7 of the colters are the beet-lifters 11, which consist of suitably-constructed subsoiling-blades having beveled front ends 12, whereby they will be enabled to penetrate readily into the soil to the desired depth. Upon the beveled front ends are formed laterally-extending flanges 10 to engage the beets and force the latter in an upward direction, the said blades or lifters being preferably made to converge slightly in a rearward direction to assist in compressing the soil beneath the beet-roots, which will thus be literally lifted out of the ground without bruising or other injury.

Suitably connected with the inner sides of the lifters are rearwardly-extending and converging horns or guides 14, upon which the beets after being loosened and pushed upwardly by the lifters will be elevated and carried rearwardly in a manner which will permit dirt to become detached therefrom, the beets being dumped in rear of the machine to be subsequently gathered.

Suitably mounted upon the horns or guides 14 are blades 15, which are made of such size, shape, and general disposition that they will serve to engage the soil which has been pushed upwardly by the action of the subsoilers or beet-lifters and also that which has become detached from the beets, throwing the soil or dirt back into the furrow or groove from which the beet has been lifted, and thus forming a bed upon which the beet when dropped at the rear ends of the horns or guides will be deposited, thus causing the beets to be supported in a position well elevated above the surface of the soil, so that they may be subsequently easily removed and gathered.

It is desired to be understood that in the construction and the exact relative position of the beet-lifters, the guides or horns, and the blades upon the latter, various changes may be made within the scope of the invention, provided, however, that the said parts

or members shall be so constructed and arranged as to be capable of performing the functions herein ascribed to them.

It is obvious that this improved device, while capable of being used in conjunction with the topping mechanism shown in Fig. 1 of the drawings, or with other suitably-constructed topping means, is also well adapted to lift beets that have not been subjected to a previous topping operation. The construction is simple and inexpensive and of such a nature as to be extremely effective for the ends in view.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a pair of suitably-supported beet-lifting members having beveled front ends, in combination with rearwardly-converging rods connected with the lifting members and extending upwardly from the latter to elevate the beets and to deposit them in the furrow from which they have been taken upon the loose soil sifting back into the furrow between said rods.

2. Rearwardly - converging beet - lifting members having beveled and flanged front ends, earth-engaging cutting members supporting said lifting members, and rearwardly-converging guides connected with the latter.

3. In a beet - harvester, a pair of rearwardly-converging beet-lifting members having beveled and flanged front ends, earth-engaging cutting members supporting said lifting members, rearwardly-converging guides connected with the latter, and earth-engaging blades upon said guides.

4. In a beet-harvester, a pair of suitably-supported beet-lifting members, in combination with upwardly and rearwardly converging guides connected with said lifting members, and earth-engaging blades upon said guides.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LOUIS STIMART.

Witnesses.

EDWARD S. HALL,
E. R. SMITH.