

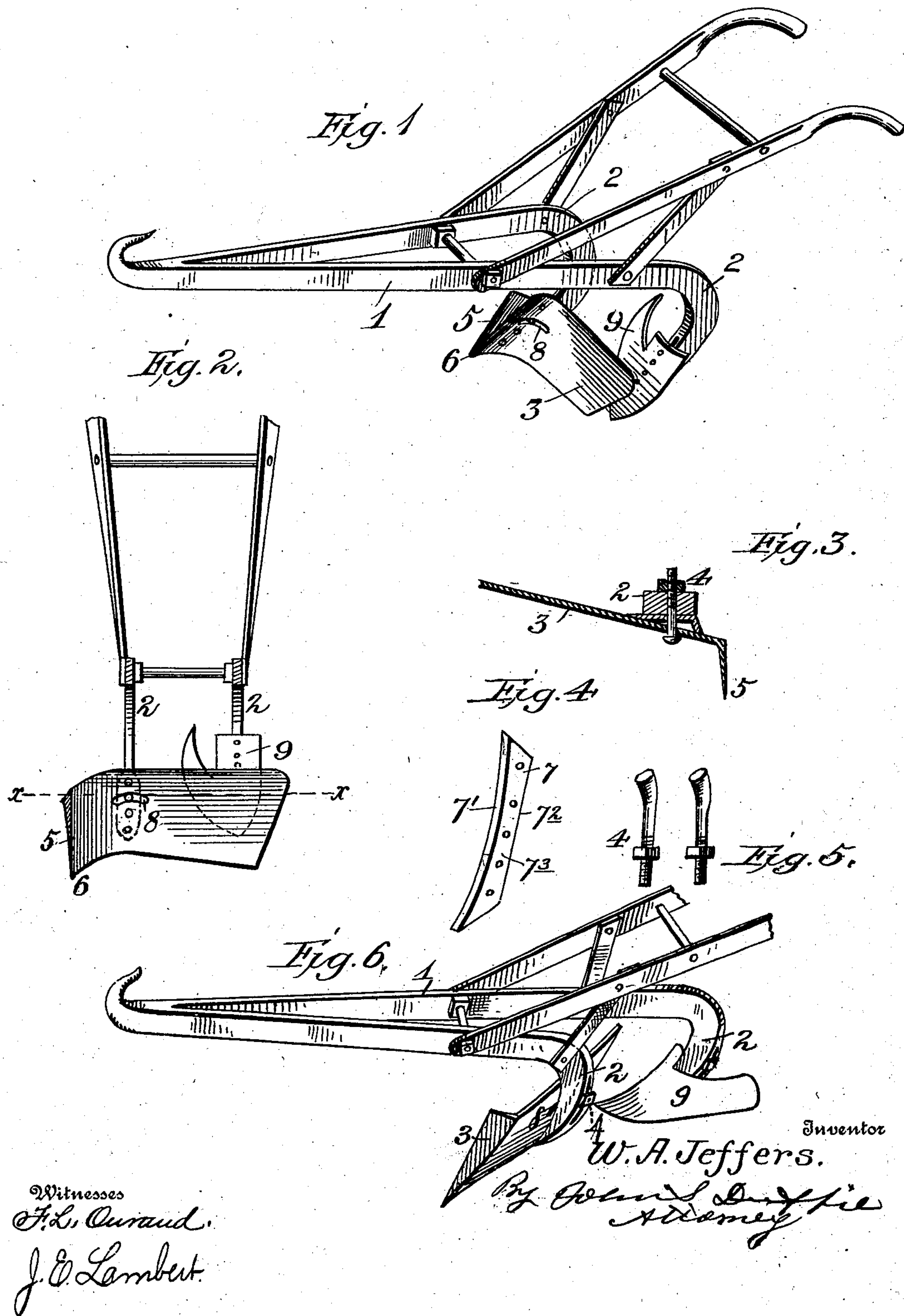
No. 702,561.

Patented June 17, 1902.

W. A. JEFFERS.  
COMBINATION PLOW ATTACHMENT.

(Application filed Mar. 7, 1902.)

(No Model.)





# UNITED STATES PATENT OFFICE.

WILLIAM A. JEFFERS, OF MULBERRY, ARKANSAS.

## COMBINATION-PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 702,561, dated June 17, 1902.

Application filed March 7, 1902. Serial No. 97,066. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. JEFFERS, a citizen of the United States, residing at Mulberry, in the county of Crawford and State of Arkansas, have invented certain new and useful Improvements in the Oliver Cotton Scraper and Dirter, and particularly in the patent to William Y. Oliver, filed July 24, 1885, No. 338,289, of which the following is a specification.

My invention has relation to cultivators; and it consists in a scraper of new and original shape, and of an angle-bar support of new and original shape, and of the combination of the scraper, the angle-bar support, the dirter, a double-shovel-plow stock, and wheel-cultivators, and also the position of each piece in relation to the other pieces.

In the accompanying drawings, Figure 1 is a perspective left-hand view of the cultivator. Fig. 2 is a front view of the same. Fig. 3 is a sectional view of the scraper, angle-bar support, and foot cut through Fig. 2 on the line  $x x$ . Fig. 4 is a perspective view of the angle-bar support. Fig. 5 is a perspective view of some of the bolts used in this invention. Fig. 6 is a perspective right-hand view of the cultivator.

My invention is made right and left handed in all its parts, while the original cultivator of W. Y. Oliver, combination-plow, patented March 23, 1886, No. 338,289, of which this is an improvement, was only made left-handed.

I claim a marked improvement in the scraper-blade by making a one-third-circle slot 8 and three bolt-holes therein in place of four, by means of which the said scraper may be raised or lowered on the heel 2 by withdrawing the bolt and putting it through either one of the said three holes and through the slot in the heel. By means of this slot the scraper is now self-adjusting to flat or high ridges of ground. By loosening the bolt in the slot the scraper-blade can be lowered at its point or heel, as may be desired, to adjust it to the shape of the ground to be scraped, making it adjustable to both double-shovel and cultivator stocks. The angle-bar support, Fig. 4, as made in the mentioned Oliver plow had one blunt end; but my new one, Fig. 4, comes to a point at each end and is therefore reversible, and one only is made

for right and left hand scrapers and cannot, therefore, be put on wrong. My new one, Fig. 4, will fit either the right-hand or the left-hand cultivator-foot.

My invention is described as follows:

1 represents the ordinary left-hand double-shovel-plow stock with the heels 2, slotted long enough to carry two or more bolts instead of one, so that the scraper or angle-bar support and dirter may be adjustably secured thereto and held more firmly.

3 represents the scraper, which is adjustably secured to the front foot of the plow stock by means of bolts and nuts 4. (See Fig. 3.) The scraper is secured to the right-hand foot of the stock (see Fig. 1) in such manner that its left-hand end inclines backward at an angle of about twenty degrees and throws the dirt to the left. It has its right-hand end, which runs next to the cotton, turned up sharply to the front to form a blade 5. The edge of this blade points directly to the front and guides the scraper straight to the front. It also enables me to run very close to the cotton without tearing it up. This blade also prevents clods and grass from falling over on the cotton and turns them off to the left. Said right-hand end also extends downward a little, terminating in a point 6, and the blade 5 also extends downward to this point. This also aids in directing the course of the scraper. The blade 5 is so turned forward that it forms a perpendicular line, forming a colter 5, as will be seen by reference to Fig. 3.

The scraper 3 is given its angle by a light angle-bar support 7, which comes to a point at both ends (see Fig. 4) and which is nearly as long as the scraper is wide, its edges 7' and 7<sup>2</sup> resting on the rear face of the same and its flat side 7<sup>3</sup> against the front face of the foot. This angle-bar support 7 is so constructed that when secured to the face of the foot its short arm is of such length in relation to the blade 5 that when the said scraper is placed against the two edges of the said angle-bar it will bring the edge of the blade 5 directly to the front. Thus it will be seen that the more obtuse the angle of the scraper and blade the greater must be the length of the short arm. Thus in order to have the said blade point directly to the front it is necessary that



said two pieces be made for and adapted to each other. This scraper is made right and left handed—that is, some of them are made right-handed and some of them are made left-handed—that is to say, those that are intended for right-hand frames are made right-handed and those that are intended for left-hand frames are made left-handed—and has cut near its front end and not far from its upper edge and on a line with its bolt-holes a three-inch-circle slot 8 for the purpose of adjusting it to the ridges of the ground.

To the rear foot of the stock is attached a winged sweep or dirter 9. This sweep is also made right and left. It has in its body four holes, so that it may be set to run deep or shallow. The scraper scrapes one side of the row perfectly clean, throwing the clods and grass to the left or right, according to the scraper used, and beyond the range of the dirter. The dirter is on the inside of the outside line of the path of the scraper and comes after the scraper and throws the clean dirt to the crop, thus giving me a perfectly clean row.

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

1. In a right and left hand cultivator, the combination of a double-footed-plow stock 1, having its heels 2, slotted; a scraper 3, its outer end nearly straight horizontally, its inner end curved forward and to a greater degree at the bottom; said end and cutting edge curved sharply downward to a point 6, and having the cutting-flange bent forward, forming a colter; said scraper provided near its under end with a circular slot 8, and bolt-holes; a winged dirter 9, secured to the rear foot and inside of the outer end of said scraper, substantially as shown and described and for the purposes set forth.

2. In a right and left hand cultivator, the combination of a double-footed-plow stock 1, having its heels 2, slotted; a scraper, its inner end extending downwardly forming a

point 6, and turning forward forming a colter 5; said scraper provided near its inner end with bolt-holes and a circular slot 8; a right-angle-bar support 7, its two ends coming to a point, its flat side 7<sup>3</sup>, fitting against the face of the forward foot 2, its two edges 7', and 7<sup>2</sup>, fitting against the rear face of the scraper, and a dirter 9, secured to the rear foot 2, and inside of the line of the free end of the scraper, substantially as shown and described and for the purposes set forth.

3. In a right and left hand cultivator, to be used in combination with a double-footed-plow stock 1, and wheeled cultivator 2; a scraper 3, its outer end nearly straight horizontally, its inner end curved forward and to a greater degree at the bottom; said end and cutting edge curved sharply downward to a point 6, and having the cutting-flange bent forward, forming a colter; said scraper provided near its under end with a circular slot 8, and bolt-holes; a winged dirter 9, secured to the rear foot and inside of the outer end of said scraper, substantially as shown and described and for the purposes set forth.

4. In a right and left hand cultivator, to be used in combination with a double-footed-plow stock 1, and wheeled cultivators; a scraper, its inner end extending downwardly forming a point 6, and turning forward forming a colter 5; said scraper provided near its inner end with bolt-holes and a circular slot 8; a right-angle-bar support 7, its two ends coming to a point, its flat side 7<sup>3</sup>, fitting against the face of the forward foot 2, its two edges 7', and 7<sup>2</sup>, fitting against the rear face of the scraper, and a dirter 9, secured to the rear foot, and inside of the line of the free end of the scraper, substantially as shown and described and for the purposes set forth.

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

WILLIAM A. JEFFERS.

Witnesses:

C. M. BLEDSOE,  
J. W. STORIE.