

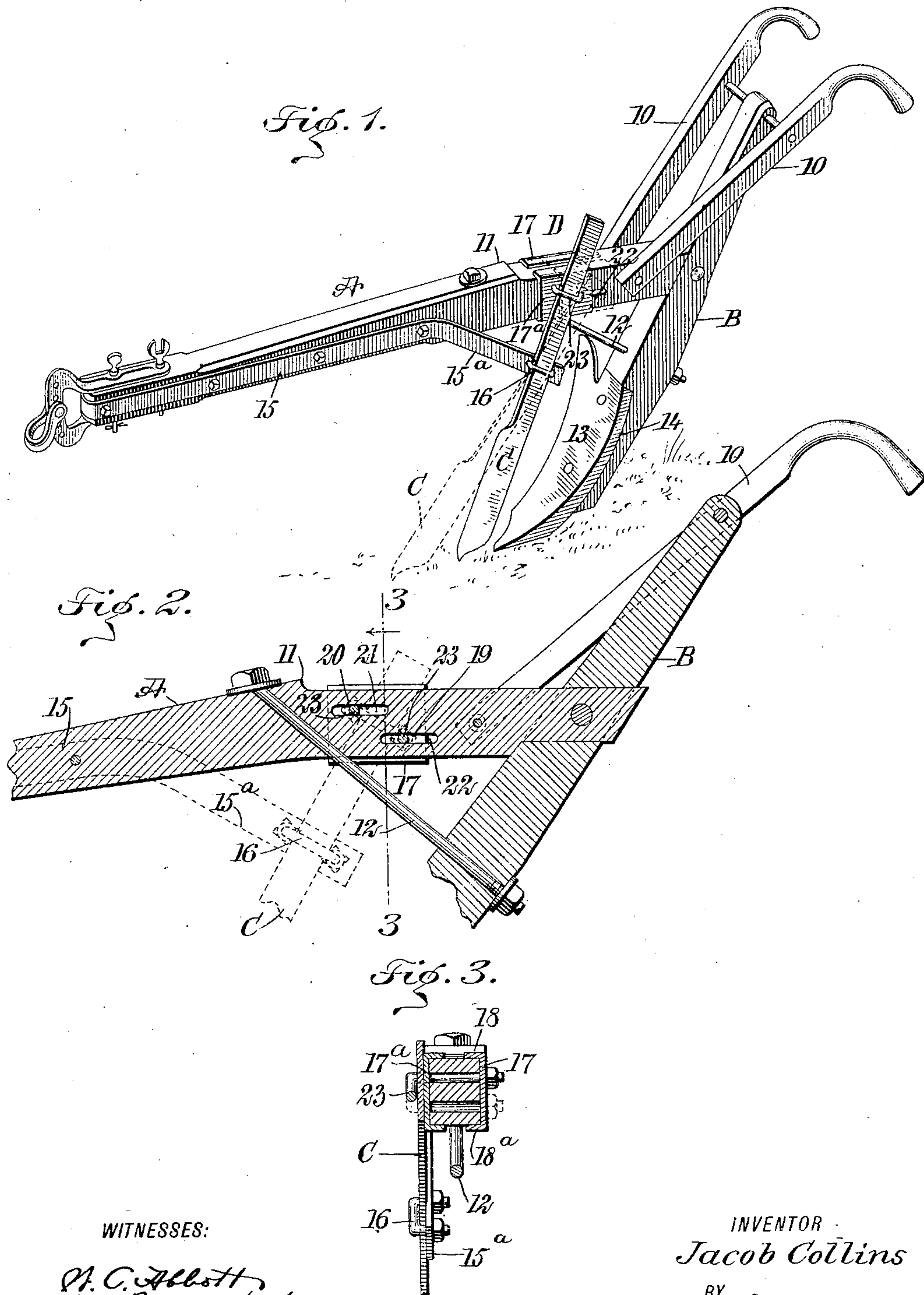
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PATENTED OCT. 31, 1905.

J. COLLINS.

PLOW.

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WITNESSES:

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# UNITED STATES PATENT OFFICE.

JACOB COLLINS, OF DOCKERY, MISSISSIPPI.

## PLOW.

No. 803,327.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed July 1, 1905. Serial No. 267,942.

*To all whom it may concern:*

Be it known that I, JACOB COLLINS, a citizen of the United States, and a resident of Dockery, in the county of Sunflower and State of Mississippi, have invented a new and Improved Plow, of which the following is a full, clear, and exact description.

The purpose of my invention is to provide a simple, strong, and economic plow especially adapted for opening new ground, but which may be successfully employed in all work adapted to the plow, and particularly to provide adjusting mediums for a knife-colter whereby said colter may be given vertical adjustment or adjustment to or from the point of the share, which adjusting mediums can be quickly and conveniently operated and are of such construction that a guide is provided for the colter between its ends and the colter is held at a side of the beam, the adjustment of the colter being accomplished by simply sliding the adjusting mediums to and from the heel of the beam.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved plow. Fig. 2 is a vertical longitudinal section through the rear portion of the plow; and Fig. 3 is a transverse section through the beam, the section being taken practically on the line 3 3 of Fig. 2.

A represents the beam of the plow and is made quite strong and solid. It is provided at its rear with the conventional handles 10, and adjacent to its rear end the beam is provided with an offset 11 upon its upper face, as is shown in Figs. 1 and 2.

B represents the stock, which is secured to the rear end of the beam in any approved manner and is stayed by means of a brace-bolt 12, extending from the beam forward of the offset 11 and through the said stock, as is also shown in Figs. 1 and 2.

The share 13, which is of the moldboard type, is made longer than usual and simply rests upon the forward face of the stock and is bolted thereto by suitable bolts. The said share at its left-hand longitudinal edge is provided with a rearwardly-extending flange 14, which fits snugly against the side face of the

stock B, so that the flange 14 serves to steady the share and likewise serves to strengthen the stock, as said flange is not countersunk in the stock, but simply has bearing thereon. 60

A strap 15 is longitudinally secured to the left-hand side of the beam A, said strap being preferably made to extend around the front of the said beam, and at a point near the center of the beam A the strap 15 is bent downward and rearward in direction of the share 13, as is shown in Fig. 1, and this downwardly-extending terminal 15<sup>a</sup> of the strap 15 is provided at the left-hand side of its rear end with a guide 16, which is in the nature of a U-bolt having suitable nuts thereon. 70

C represents a knife-colter, which may be of any approved type, and D represents the adjusting mechanism for said colter. This adjusting mechanism consists of two opposite plates 17 and 17<sup>a</sup>, adapted to slide upon opposite sides of the beam A at the rear of the offset 11, and said plates 17 and 17<sup>a</sup> are provided with upper and lower inwardly-extending flanges 18 and 18<sup>a</sup>, which flanges engage, respectively, with the upper and lower faces of the beam A, as is best shown in Fig. 3. 80

The adjusting-plates 17 and 17<sup>a</sup> are provided with lower alining apertures 19 and upper alining apertures 20, and the beam A is provided with an upper longitudinal slot 21, in registry with the upper apertures 20 in the adjusting-plates, and with a lower longitudinal slot 22, in registry with the lower apertures 19 in said adjusting-plates, as best shown in Fig. 2. 85 90

A U-bolt 23 is employed in connection with the adjusting-plates, and the members of the said U-bolt are passed through the left-hand side of the beam, respectively through the upper apertures 20 in the plates, the upper slot 21 in the beam, the lower apertures 19 in the plates, and the lower slot 22, as is shown in Figs. 2 and 3. The members of the said U-bolt 23 are provided with nuts at their right-hand ends. The shank of the knife-colter C is passed through the guide 16 on the strap 15 and then up through the U-bolt 23 to an engagement with the outer face of the right-hand adjusting-plate 17<sup>a</sup>. The knife-colter is held in its adjusted position by tightening up the nuts on the guide 16 and the U-bolt 23, the colter being held thus by the adjusting device between the bow portion of the U-bolt 23 and the outer face of the adjusting-plate 17<sup>a</sup>, which is also a wear-plate. 100 105 110



When it is desired to adjust the knife-colter C away from the point of the share 13, the nuts on the U-bolt 23 are loosened and the adjusting-plates and the said U-bolt are  
 5 slid bodily of the said beam A in direction of its rear as far as may be required, thus carrying the knife-colter C to the dotted position shown in Fig. 1, for example. When the adjustment of the knife-colter is to be  
 10 made toward the point of the plow, the adjusting device D is simply slid the required distance toward the forward end of the plow-beam. In both cases after the adjustment has been made the nuts of the U-bolt are  
 15 tightened, and likewise the nuts on the guide 16, if such nuts had been loosened. If it is necessary to adjust the knife-colter vertically, the nuts on the guide 16 and the nuts on the U-bolt 23 are loosened and the shank  
 20 of said colter is carried upward or downward, as may be required, after which adjustment the nuts are properly tightened.

By reference to Fig. 2 it will be observed that the slots 21 and 22 are parallel and that  
 25 the forward end of the slot 22 is in vertical alinement with the rear end of the slot 21, thus permitting a wide range of adjustment of the adjusting device D.

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

1. In a plow, the combination with a beam, a stock and share, the said beam being provided with longitudinal parallel slots extending through from side to side, one located  
 35 above the other, the forward end of one slot being beneath the rear end of the other slot, of plates mounted to slide on opposite sides of the said beam at its slotted portion, said plates being provided with apertures which

register with the said slots and a U-bolt provided with suitable nuts, the members of which bolt are passed through the said slots in the beam and the registering apertures in the said plates, and a knife-colter the shank of which is passed through the bow portion of the said  
 45 U-bolt to an engagement with the outer face of one of said plates, for the purpose described.

2. In a plow, the combination with a beam, a stock secured to the said beam, a strap secured longitudinally of the beam, having its  
 50 rear end extending downward and rearward, and a guide carried by the rear end portion of the said strap, the said beam being provided with parallel slots extending through from side to side, one slot being above the  
 55 other and the inner ends of the slots being in substantially vertical alinement, of an adjusting device comprising opposing plates having upper and lower inwardly-extending flanges, which plates are adapted to slide on  
 60 the slotted portion of said beam, each plate being provided with apertures in registry with the slots in the beam, a U-bolt the members of which are passed through the apertures in the said plates and the corresponding  
 65 slots in the said beam, the ends of said members being provided with nuts, and a knife-colter the shank of which extends up through the guide on the said strap and through the  
 70 U-bolt between its arched end and the outer end of the adjacent sliding plate.

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

JACOB COLLINS.

Witnesses:

ALBERT CAMPBELL,  
 HERMAN JITT.