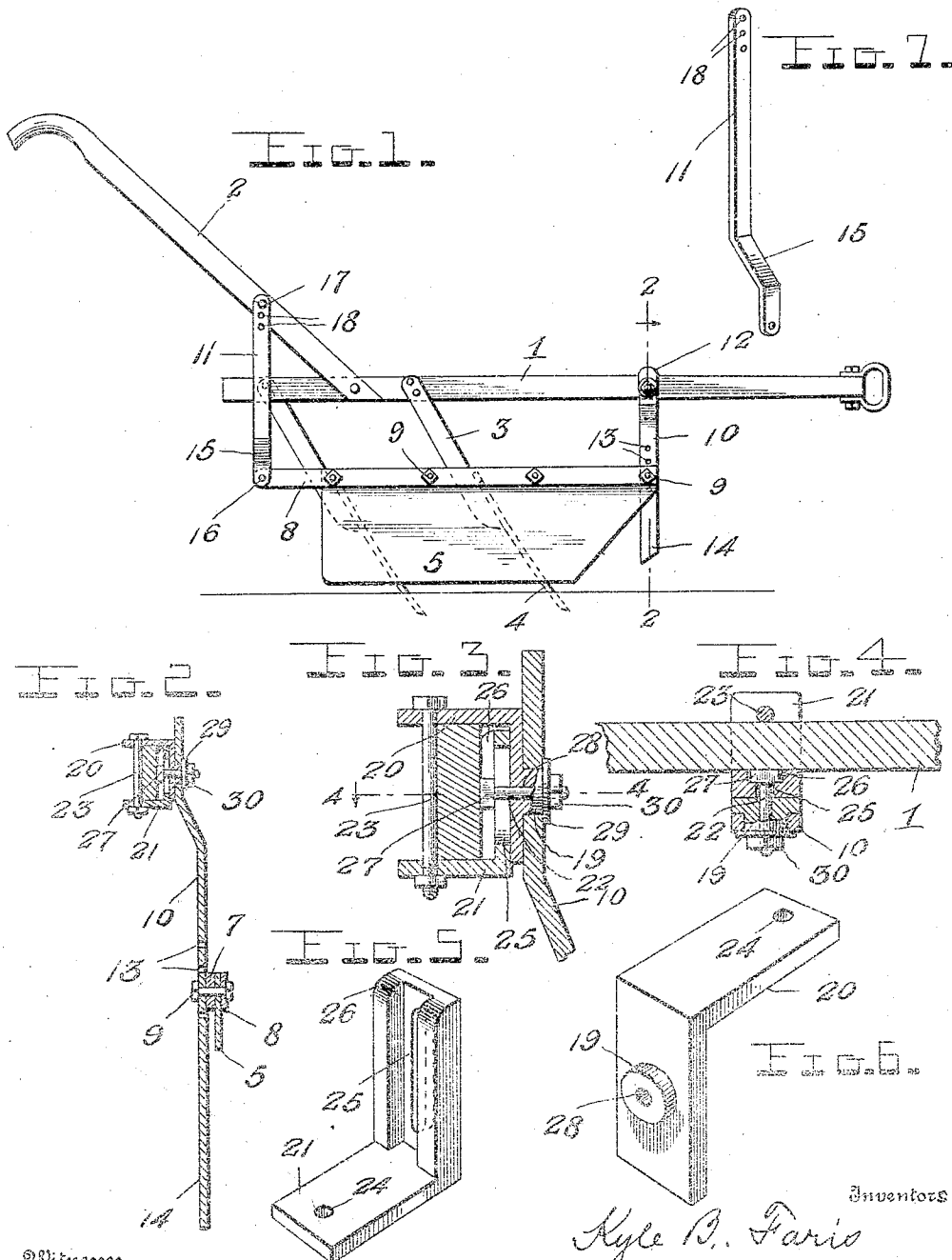


K. B. FARIS & J. D. WALKER.
FENDER FOR DOUBLE SHOVEL PLOWS.
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Witnesses

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UNITED STATES PATENT OFFICE.

KYLE B. FARIS AND JOSEPH D. WALKER, OF WHITESBURG, TENNESSEE.

FENDER FOR DOUBLE-SHOVEL PLOWS.

941,772.

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To all whom it may concern:

Be it known that we, KYLE B. FARIS and JOSEPH D. WALKER, citizens of the United States, residing at Whitesburg, in the county of Hamblen and State of Tennessee, have invented certain new and useful Improvements in Fenders for Double-Shovel Plows, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in fenders for plows, cultivators and the like.

One object of the invention is to provide a simple, inexpensive and practical device of this character which may be readily attached to an ordinary plow or cultivator and which will effectively prevent the earth from being thrown over upon young plants.

Another object of the invention is to provide improved means for mounting a fender of this character and means whereby it will fold when it strikes a rock or other obstruction, thereby preventing breakage of the parts.

A further object of the invention is to provide an improved clamping device for attaching one of the hangers of the fender to a beam.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a double shovel plow or cultivator illustrating the application of the preferred embodiment of the invention thereto; Fig. 2 is a vertical section taken on the plane indicated by the line 2—2 in Fig. 1; Fig. 3 is an enlarged vertical section through the clamp and pivot for the front hanger of the fender; Fig. 4 is a detail horizontal section taken on the plane indicated by the line 4—4 in Fig. 3; Figs. 5 and 6 are detail perspective views of the two angular members of the clamp; and Fig. 7 is a detail perspective of the rear hanger for the fender.

In the drawings 1 denotes the beam, 2 the handles, 3 the standards and 4 the shovels of a well known form of double shovel plow or cultivator.

The improved fender comprises a vertically disposed, longitudinally extending body 5 arranged to one side of the shovels 4 and preferably in the form of a flat plate of

metal of substantially rectangular shape with its front end beveled or inclined downwardly and rearwardly. Said plate or sheet 5 is preferably reinforced by two longitudinally extending metal straps or bars 7, 8 arranged along its upper edge on its opposite sides and secured thereto by transverse bolts or similar fastenings 9.

The fender plate 5 is supported by means of front and rear hangers 10, 11 which are preferably pivotally mounted and pivotally connected to the fender so that the latter can swing vertically in a longitudinal direction. The front hanger 10 is in the form of a strap having an offset upper end 12 with a pivot opening and its lower portion is pivotally connected to the fender, preferably, by means of the foremost bolt 9.

To permit the fender plate to be adjusted vertically, the hanger strap 10 is formed with a longitudinal series of openings 13, any one of which may receive the pivot bolt 9. Said hanger strap 10 is of such length that its lower end 14, which is beveled downwardly, depends rearwardly in front of the beveled end of said plate and serves as a guard for said end. It will be noted that the hanger 10 is made of heavier material than the fender plate 5 so that the guard end 14 will not be bent when it strikes a stone or other obstruction as would the edge of the fender plate were the guard end 14 omitted. The rear hanger 11 is also in the form of a metal strap having an offset lower end 15 pivoted at 16 to an extended rear end of one or both of the reinforcing bars 7, 8. The upper end of the hanger 11 is connected by a bolt 17 or other pivot to one of the handle bars 2 or to any other suitable support and the distance between the two pivots in said hanger 11 is preferably greater than the distance between the two pivots in the hanger 10 so that the fender will move upwardly, as well as rearwardly, when the guard 14 is struck by a stone or other obstruction. The rear hanger 11 may be formed with a longitudinal series of apertures 18, any one of which may receive the pivot 17 so that the rear portion of the fender may be adjusted vertically.

The pivot opening in the upper end 12 of the hanger strap 10 is adapted to receive a pivot in the form of a cylindrical boss 19 formed integral with one member of a two-part clamp adapted to engage the beam 1. This clamp, as more clearly shown in Figs.

3 to 6 inclusive of the drawings, consists of two substantially right angular members 20, 21, which have overlapping arms slidably engaged and adjustably secured together by a bolt or the like 22 and the other arms of which are adapted to receive the beam 2 between them and to be retained in engagement therewith by a bolt 23 or its equivalent passed through apertures 24 in said arms of the clamp members. The pivot boss 19 is formed upon the overlapping arm of the angular member 20 and the corresponding arm of the other member 21 is formed with a longitudinal slot 25 to receive the bolt 22 and also with a longitudinal groove or recess 26 opposite the slot 25 for the reception of the head 27 of said bolt. The bolt 22 also passes through a concentric opening 28 in the pivot boss or stud 19 and upon its projecting threaded end is arranged a washer 29 and a nut 30. The washer 29 is of such size that it engages the hanger 10 and retains the latter upon the pivot 19. It will be seen that this improved clamp is so constructed that it may be readily applied to a plow beam or the like, of almost any size. This feature, together with the adjustable mounting of the hanger 11 and the adjustable connection between the fender plate and the hanger 10, permits the invention to be adapted to and used upon various kinds of plows, cultivators, and the like.

Having thus described the invention what is claimed is:

1. The combination with a plow or the like, of a fender, the front end of the fender being inclined downwardly and rearwardly, and front and rear hangers for pivotally

suspending the fender, the front hanger having its lower end depending to provide a guard arranged in front of the inclined or beveled end of the fender.

2. The combination with a plow or the like, of a fender, front and rear hanger straps, means for pivotally mounting the front hanger strap to the plow, an adjustable connection between the fender and said front hanger, the lower end of the latter being adapted to project in front of the forward end of the fender to serve as a guard for the latter, a pivot connection between the rear hanger and the fender and a pivotal connection between the rear hanger and the plow.

3. The combination with a plow or the like, of a fender consisting of a metal plate with a downwardly and rearwardly inclined front end, and a longitudinal reinforcing bar at the upper edge of the fender plate, a front hanger strap adjustably pivoted intermediate its ends to said reinforcing bar, the lower end of the hanger strap being adapted to project in front of the lower end of the fender plate to serve as a guard, a rear hanger strap pivoted to the rear end of the reinforcing bar and means for pivotally mounting the upper ends of the hanger straps upon the plow.

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

KYLE B. FARIS.
JOSEPH D. WALKER.

Witnesses:

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W. S. CAUCH.