

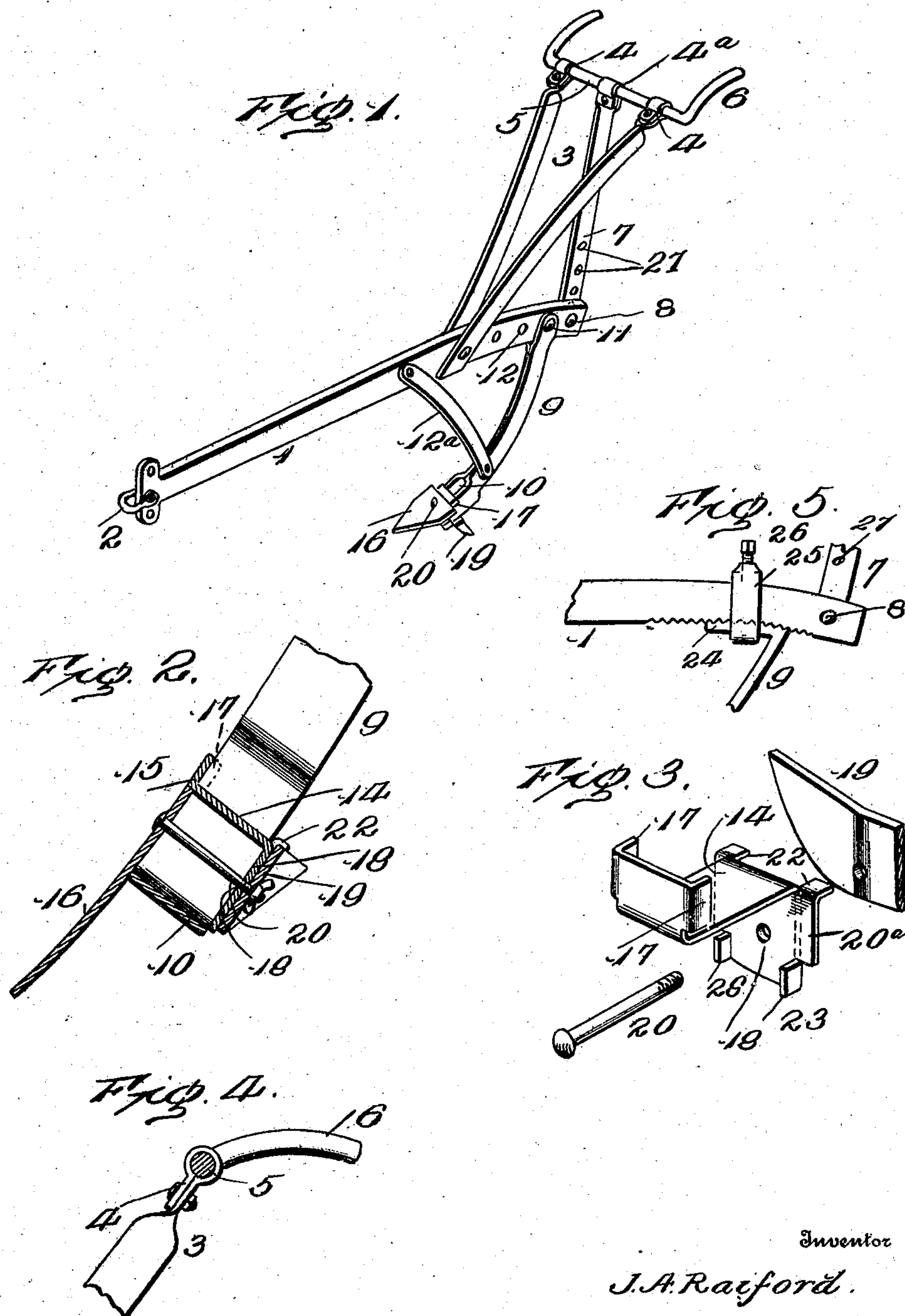
No. 881,340.

PATENTED MAR. 10, 1908.

J. A. RAIFORD.

FLOW STOCK.

APPLICATION FILED MAY 7, 1907.



Witnesses

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# UNITED STATES PATENT OFFICE.

JAMES A. RAIFORD, OF COLUMBUS, GEORGIA.

## PLOW-STOCK.

No. 881,340.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed May 7, 1907. Serial No. 372,361.

*To all whom it may concern:*

Be it known that I, JAMES A. RAIFORD, citizen of the United States, residing at Columbus, in the county of Muscogee and State of Georgia, have invented certain new and useful Improvements in Plow-Stocks, of which the following is a specification.

The present invention relates to certain new and useful improvements in the construction of plows, and more particularly to a plow stock embodying novel means for attaching the plow point thereto.

The invention also contemplates the provision of a scraper mounted upon the stock in the rear of the plow point to facilitate spreading of the dirt loosened thereby.

To this end the invention consists essentially in a plow stock having a transverse opening formed in the lower portion thereof, and a plate extending through the opening, one end of the plate being extended upwardly to form a shoulder engaging the plow point while the opposite end of the plate is extended downwardly and carries a shoulder engaging the scraper.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a plow embodying the invention. Fig. 2 is an enlarged vertical sectional view through the lower portion of the stock. Fig. 3 is a detail view of the plate for retaining the plow point and scraper in position. Fig. 4 is a detail view showing the manner of attaching the handle. Fig. 5 is a detail view showing a modified method of attaching the stock to the plow beam.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the present embodiment of the invention the numeral 1 designates the plow beam provided at its forward end with the usual clevis 2 while its rear end is curved downwardly to a slight extent and has the handle carrying frame 3 attached thereto. This frame comprises a pair of bars having their lower ends secured to the beam 1 upon opposite sides thereof, while their upper ends are diverged outwardly and have their extremities returned upon them-

selves to form the clamp 4 receiving the handle bar 5 provided at its extremities with the laterally extending and curved handle pieces 6. It will thus be apparent that when the clamps 4 are loosened the handle bar 5 can be turned to throw the handle pieces 6 at the desired angle and they can be rigidly held in this position by again tightening the clamps. A brace 7 is also provided for the handle, the upper end thereof carrying a clamp 4<sup>a</sup> cooperating with the before mentioned clamps 4, while the lower end is adjustably connected to the plow beam by means of a bolt or pin 8 passing through a selected one of a series of openings 27, thus admitting of the handle carrying frame 3 being raised and lowered.

The plow stock 9 is preferably formed of a single length of material which is doubled upon itself, a loop or opening 10 being formed at the lower end of the stock, while the ends of the strip at the upper extremity of the stock embrace the beam 1 and are connected thereto by means of a bolt 11 passing through a selected one of a series of openings 12 in the beam whereby the angle of the stock can be adjusted and the plow point caused to produce a deep or a shallow furrow as desired. A suitable brace 12<sup>a</sup> is employed, one end thereof being connected to an intermediate portion of the plow stock, while the opposite end is connected to the beam 1. A plate 14 extends through the opening 10 at the lower end of the stock and has the forward portion thereof extended upwardly as indicated at 15 to form a shoulder abutting against the upper edge of the plow point 16 to prevent turning of the latter. It will also be observed that the upwardly extending portion 15 of the plate carries rearwardly extending flanges 17 at its extremities which embrace opposite sides of the stock. The rear portion of the plate 14 is extended downwardly at 18 and fits against the scraper 19 mounted upon the back of the stock. The scraper 19 and plow point 16 are both held in position by means of the bolt 20 which extends through the opening 10 and also passes through a perforation in the downwardly extending portion 18 of the plate 14. Laterally projecting flanges 20<sup>a</sup> are formed in conjunction with the upper portion of the member 18, the upper ends of the flanges carrying rearward projections 22 engaging the top of the scraper to prevent turning of the latter upon the bolt 20. Rearwardly extending flanges 23 which embrace the plow stock are formed upon the lower



portion of the downwardly extended portion 18 of the plate 14. In the specific construction of the scraper 19 it will be observed that the same projects laterally upon opposite  
5 sides of the stock, the projecting portions of the scraper having their lower edges inclined upwardly and serving to spread the earth loosened by the plow point.

A slight modification is shown in Fig. 5 in  
10 which the upper end of the stock is extended forwardly at 24 and provided with a collar 25 receiving the plow beam and designed to be clamped in position thereon by means of a set screw 26. Where this construction is em-  
15 ployed the lower edge of the plow beam is preferably provided with a series of teeth constituting a rack and the forwardly bent end 24 of the stock is also preferably provided with teeth for engaging the rack. This con-  
20 struction admits of the upper end of the stock being readily clamped in any desired position upon the plow beam so as to hold the plow point at the required inclination.

Having thus described the invention, what  
25 is claimed as new is:

1. In a plow, the combination of a stock having an opening formed therein, a plate positioned within the opening, a plow point mounted upon one side of the stock, and a  
30 laterally disposed scraper mounted upon the opposite side of the stock, the before mentioned plate being provided at one end with a shoulder engaging the plow point and at the opposite end with a lateral extension  
35 fitting against the scraper and engaging an edge of the same.

2. In a plow, the combination of a stock having an opening formed therein, a plate positioned within the opening, a plow point  
40 mounted upon one side of the stock, and a laterally disposed scraper mounted upon the opposite side of the stock, the before mentioned plate being provided at one end with a shoulder designed to engage the plow  
45 point while the opposite end is extended

downwardly and is designed to fit against the scraper, the said downwardly extending portion of the plate being provided with lateral flanges carrying projections engag-  
ing an edge of the scraper. 50

3. In a plow, the combination of a stock having an opening formed therein, a plate positioned within the opening, a plow point mounted upon one side of the stock, and a  
55 laterally disposed scraper mounted upon the opposite side of the stock, the before mentioned plate being provided at one end with a shoulder designed to engage the plow point while the opposite end is extended  
60 downwardly to fit against the scraper, the downwardly extending portion of the plate carrying rearwardly extending flanges embracing the stock and also being provided with laterally extending flanges formed with  
65 projections designed to engage an edge of the scraper.

4. In a plow, the combination of a stock having an opening formed therein, a plate positioned within the opening and having a  
70 shoulder at one end thereof and projections at the opposite end, a plow point mounted upon the stock and engaging the shoulder, and a scraper mounted upon the stock and engaging the projections.

5. In a plow, the combination of a stock  
75 having an opening formed therein, a plate positioned within the opening, and having one end thereof extended upwardly to form a shoulder while the opposite end is ex-  
80 tended downwardly and provided with projections, a plow point mounted upon the stock and engaging the shoulder, and a scraper mounted upon the stock and engaging the projections.

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

JAMES A. RAIFORD. [L. s.]

Witnesses:

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