No. 817,696. PATENTED APR. 10, 1906.

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C. O. DYE.

COTTON SCRAPER ATTACHMENT.

APPLICATION FILED JUNE 27, 1905.

FIG. 1.

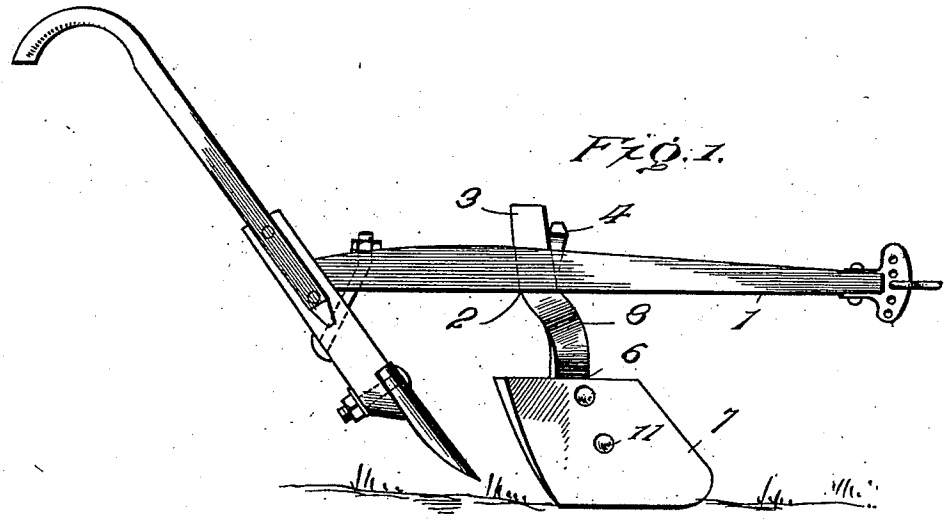


FIG. 2.

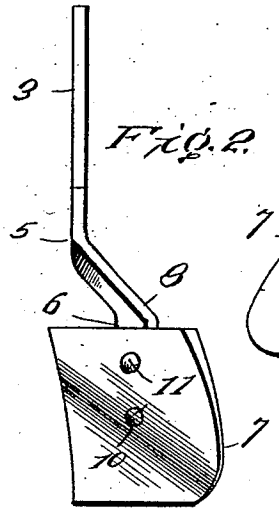


FIG. 3.

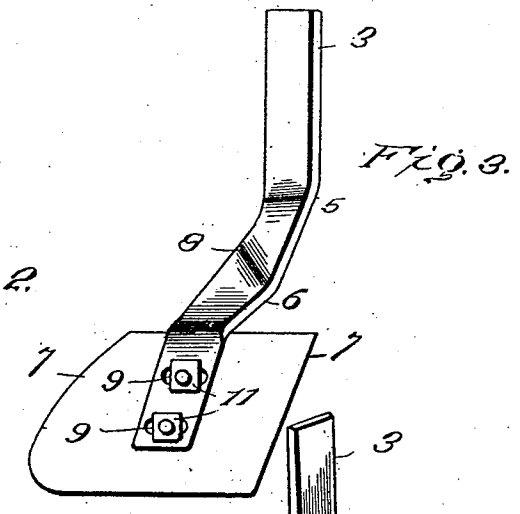
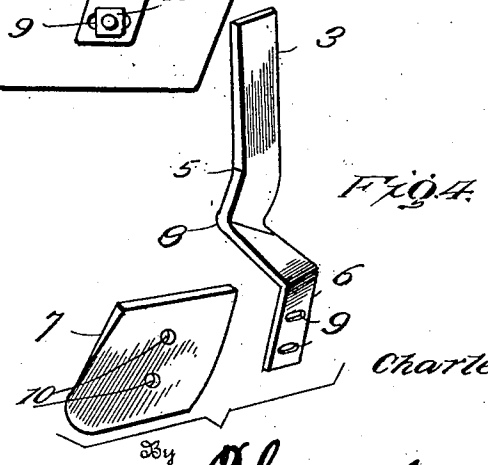


FIG. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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COTTON-SCRAPER ATTACHMENT.

No. 817,696. Specification of Letters Patent. Patented April 10, 1906.

Application filed June 27, 1905. Serial No. 267,252.

To all whom it may concern:

Be it known that I, CHARLES O. DYE, a citizen of the United States, residing at McCrory, in the county of Woodruff and State of Arkansas, have invented certain new and useful Improvements in Cotton-Scraper Attachments, of which the following is a specification.

This invention relates to agricultural implements, and more particularly to an improved cotton-scraper attachment for plows or cultivators.

It consists, essentially, of a scraper-blade attached to a bar which passes through a mortise in the plow-beam.

It has for its object to produce a device of this character which can be readily attached or detached, which permits of both lateral and vertical adjustment, and which is very simple and durable in construction.

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

Figure 1 is a side view of a plow having my device attached thereto. Fig. 2 is a front view of the scraper attachment. Fig. 3 is a side view of the scraper attachment. Fig. 4 is a detail perspective view of the various parts.

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.

The numeral 1 designates the beam of a shovel-plow of the usual construction. This beam is provided with a mortise 2 for the reception of a bar 3, which is vertically adjustable therein and is held in the desired position by means of a wedge 4. Immediately below the beam 1 the bar 3 is bent forward at 5, so as to give the proper slant to the scraper-blade. The bar is then bent outward to form an offset 6, so that the scraper-blade 7 may be given the proper alinement with respect to the shovel-plow or other implement which may be employed. A twist 8 is given to the bar immediately before it is bent downward and serves to give the proper angle to the blade, so that it will readily free itself of dirt and grass. The lower portion of the bar is provided with two transverse slots 9, which permit of a lateral adjustment of the scraper-blade 7. This scraper-blade is slightly concave and has the general shape of a diamond, the lower edge of which is sharpened so as to readily cut into the earth. It is provided with two openings 10, through which bolts 11 are passed to secure it to the bar 3, said bolts being adapted to slide in the transverse slots 9 in order to give a lateral adjustment to the scraper-blade, as has been heretofore mentioned. In its exact formation the bar 3 is provided below the bottom 1 with a portion bent laterally and offset approximately at an angle of forty-five degrees, and below said offset portion the bar 3 is again bent longitudinally, so that its lower end will lie in a plane parallel with the upper attached portion of the bar, said lower portion being, furthermore, twisted about its longitudinal axis, so that it will lie in a plane at about an angle of forty-five degrees with respect to the plane of the upper portion of the bar. It will thus be seen that the bar 3 comprises three portions arranged relatively at angles to each other, the upper portion being secured to the beam, the intermediate portion being offset at an angle of forty-five degrees therefrom, and the lowermost portion being returned to the general longitudinal plane of the uppermost portion and being twisted about its longitudinal axis, as shown. It is in this lowermost axially-twisted portion that the slots 9 are located. By this construction the scraper-blade 7 is held in proper offset position at the proper angle with respect to the shovel-plow which follows it. As thus constructed the device is adapted for scraping corn and cotton rows. The scraper-blade cuts into the surface of the earth and tends to throw the dirt back from the row, while the shovel-plow serves to loosen the thoroughly-scraped surface. By the employment of this device the two operations of scraping and cultivation are carried on simultaneously, and there is consequently a great saving of time and labor.

While I have illustrated and described my invention as attached to a shovel-plow, it will be obvious that it can with equal facility be used in conjunction with any similar implement.

Having thus described the invention, what is claimed as new is—

In a cotton-scraper attachment for plows, a blade-supporting bar having its upper end secured in a mortise in the plow-beam in alinement with the beam and projecting below the latter the said bar being bent for-

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wardly in a plane in alinement with the attached portion thereof whereby to give the proper slanting to the scraper-blade, and said bar being provided below the slanted portion with an intermediate portion offset therefrom at an angle of forty-five degrees and with the lowermost portion returned to the plane of the upper attached portion and the slanting portion, but twisted about its longitudinal axis at an angle of forty-five degrees whereby to give the proper angle to the blade so that it will readily free itself from the soil, said lowermost portion being provided with two transversely-extending elongated slots one above the other, and a scraper-blade provided with bolts mounted in said slots so as to secure the blade in both laterally and axially adjustable position with respect to the lowermost twisted portion of the bar.

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

CHARLES O. DYE. [L. S.]

Witnesses:
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