No. 660,969. Patented Oct. 30, 1900.

F. N. RENFROW.

COTTON SCRAPER.

(Application filed July 21, 1900.)

(No Model.)

Fig. 1.

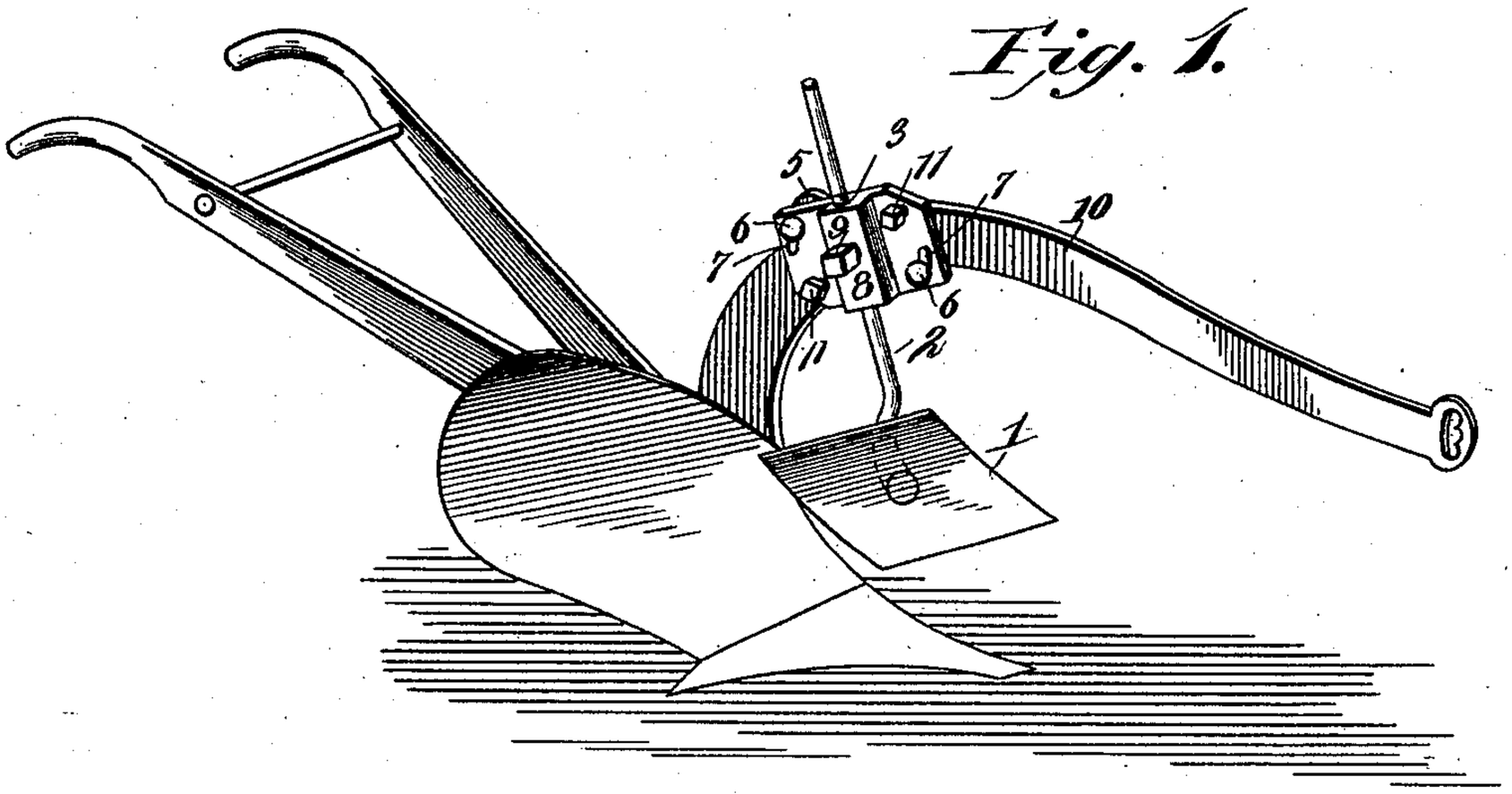


Fig. 2.

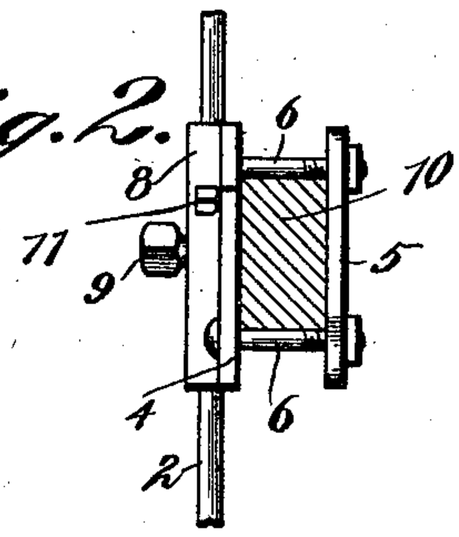


Fig. 3.

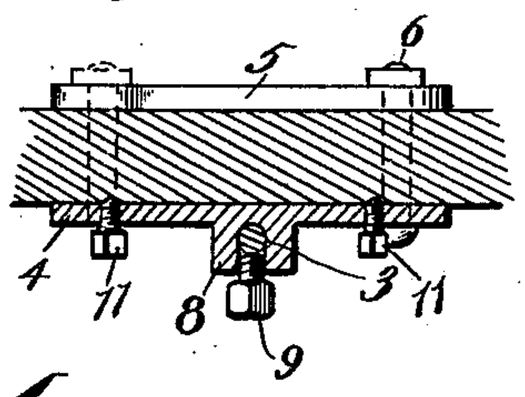
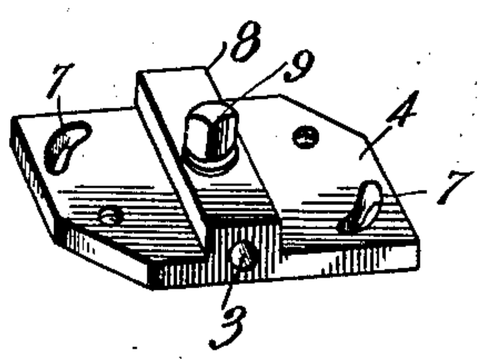


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANCIS NEWTON RENFROW, OF YAZOO CITY, MISSISSIPPI.

COTTON-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 660,969, dated October 30, 1900.

Application filed July 21, 1900. Serial No. 24,442. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS NEWTON RENFROW, a citizen of the United States, residing at Yazoo City, in the county of Yazoo and State of Mississippi, have invented a new and useful Cotton-Scraper, of which the following is a specification.

The invention relates to improvements in cotton-scrapers.

The object of the present invention is to improve the construction of cotton-scrapers, more especially the means for adjustably securing a scraper-blade to a plow-beam and for enabling the said blade to be properly positioned with relation to the plow.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a cotton-scraper constructed in accordance with this invention and shown applied to a plow. Figs. 2 and 3 are sectional views illustrating the construction of the adjustable clamp. Fig. 4 is a detail view of the front plate thereof.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a diamond-shaped scraper-blade designed to be arranged above the plow-point and in advance of the moldboard of a plow, as illustrated in Fig. 1 of the accompanying drawings, and secured by a screw or other suitable fastening device to the lower portion of a shank or bar 2, which has its lower portion slightly flattened and curved to conform to the configuration of the back of the scraper-blade. The upper portion of the shank or bar is round and is arranged within an opening 3 of the front plate 4 of a clamp which is composed of the said front plate, a rear plate 5, and connecting-bolts 6, arranged at the ends of the rear plate and passing through curved slots 7, located at the opposite corners of the front plate, as clearly shown in Fig. 4 of the accompanying drawings. The opening 3 is round to permit the shank or stem to be readily adjusted, and the scraper-blade may be raised and lowered or turned at an angle to properly position it with relation to the plow. The front plate is provided with a central enlargement or rib 8, forming a thickened portion at the opening 3 to strengthen the plate, and the rod or stem is clamped in the opening 3 by means of a screw 9, arranged in a threaded perforation of the enlarged portion or rib, having its inner end engaging the shank or bar.

The bolts which connect the front and rear plates are provided with nuts and pass through perforations of the rear plate and are arranged at the upper and lower edges of a plow-beam 10, and the said bolts are adapted to support the device in position while the scraper-blade is being arranged in proper position. The curved slots permit the front plate and the shank or bar to be tilted and arranged in proper position, and after the nuts of the bolt have been screwed home the clamp is firmly locked in such position by means of a pair of oppositely-disposed clamping-screws 11, arranged adjacent to the upper and lower edges of the plow-beam and having pointed inner ends for engaging one of the side faces thereof. The front plate is provided with threaded openings to receive the upper and lower clamping-screws, and the said screws 9 and 11 are preferably provided with polygonal heads to enable them to be readily tightened by a wrench.

It will be seen that the clamp is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that it is adapted to be readily applied to any ordinary plow-beam and is capable of being secured at any point on the same. It will also be apparent that the front plate, which carries the scraper, is adapted to be partially rotated by means of the curved slots and that the scraper is adapted to be raised and lowered and to be turned horizontally to position it properly with relation to the plow.

What I claim is—

1. A device of the class described comprising a front plate having an upright enlargement provided with an opening, said front plate being also provided with opposite upper and lower slots located at opposite sides of the enlargement, a shank arranged in the said opening, a rear plate, fastening devices connecting the front and rear plates and arranged in the said slots and designed to be

located above and below a plow-beam, and clamping-screws mounted on the front plate at the enlargement and at opposite sides thereof and arranged to engage the shank and the beam of a plow, substantially as described.

2. A device of the class described comprising a front plate adapted to receive a scraper-blade and provided with oppositely-disposed upper and lower slots designed to be located above and below a plow-beam, said plate being also provided with threaded perforations located opposite the beam, a rear plate, fastening devices connecting the plates and arranged in the said slots, and clamping-screws mounted in the said perforations and engaging the plow-beam, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANCIS NEWTON RENFROW.

Witnesses:
W. V. THOMSON,
M. P. WILSON.