No. 618,473. Patented Jan. 31, 1899.

C. N. LAMBERT.

ATTACHMENT FOR CULTIVATORS AND HARROWS.

(Application filed Sept. 9, 1897.)

(No Model.)

Fig. 1.

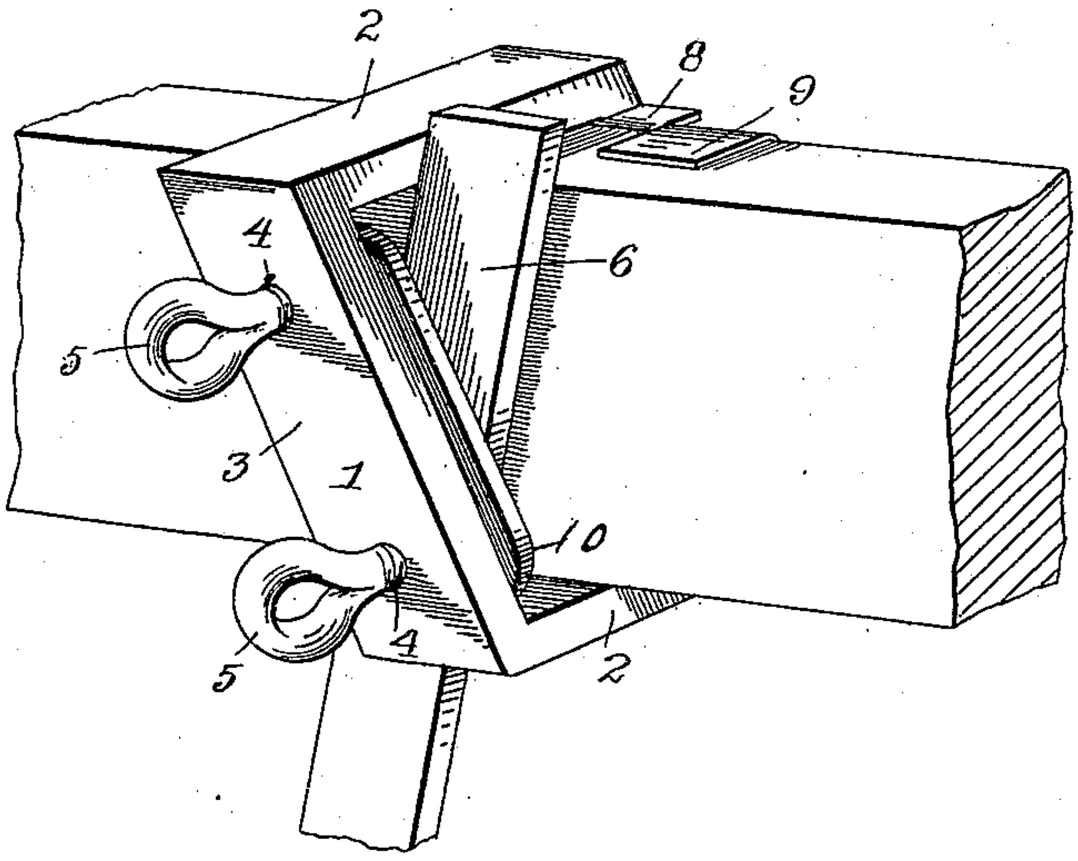


Fig. 2.

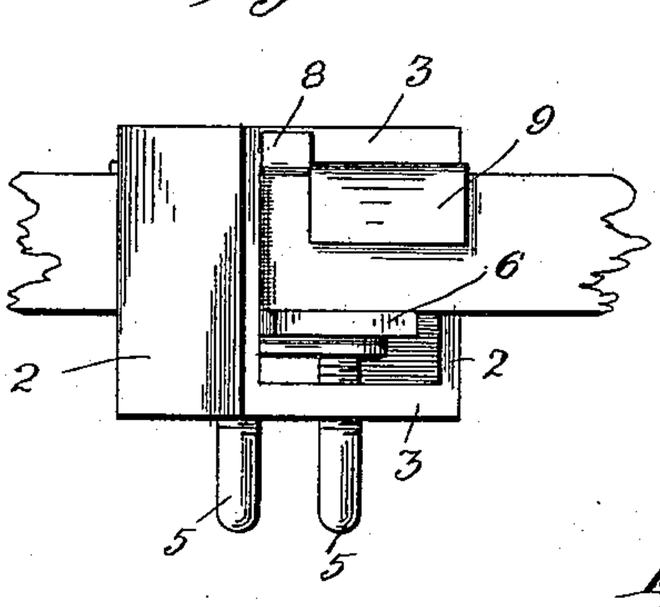


Fig. 3.

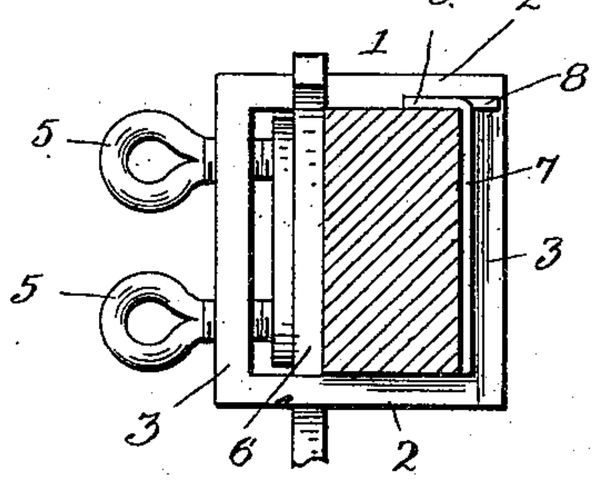
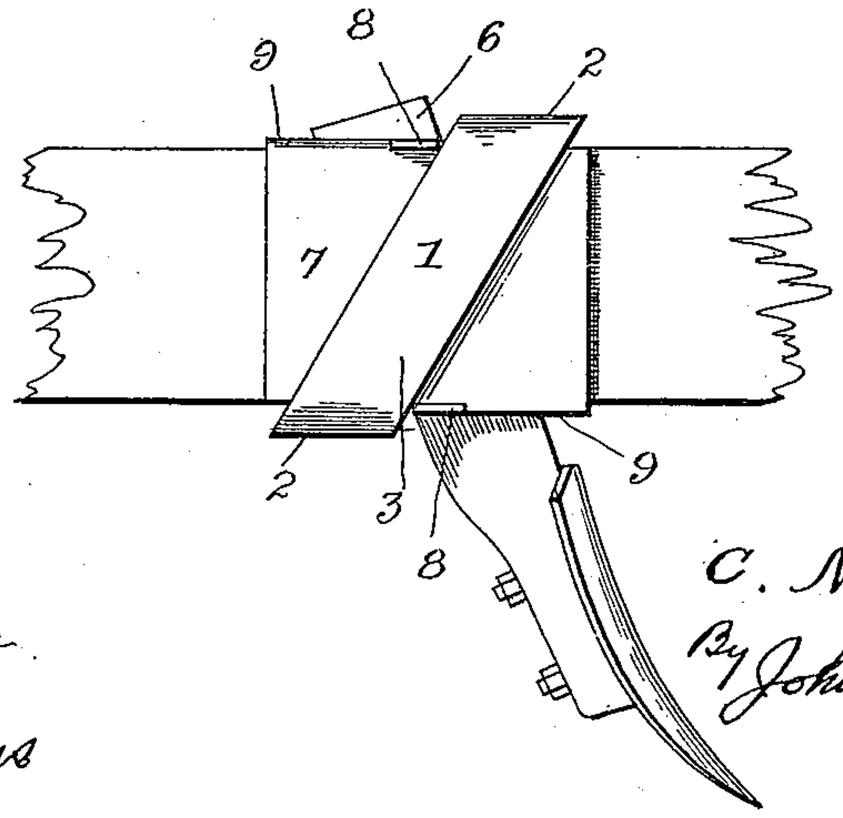


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHRISTOPHER NOEL LAMBERT, OF MONTICELLO, ARKANSAS.

ATTACHMENT FOR CULTIVATORS AND HARROWS.

SPECIFICATION forming part of Letters Patent No. 618,473, dated January 31, 1899.

Application filed September 9, 1897. Serial No. 651,022. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER NOEL LAMBERT, of Monticello, in the county of Drew and State of Arkansas, have invented certain new and useful Improvements in Attachments for Cultivators and Harrows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an improvement in attachments for cultivators and harrows, the object of the same being to provide certain devices for connecting the cutting-blades rigidly to the beam and at an angle with respect to each other.

To this end the invention consists in a rectangular band encircling the beam and having its ends or connecting portions at an inclination with respect to the side pieces in order to bear against the upper and lower sides of the beam, screws passed through one side of the band, and a plate with which the said screws engage, the shank of the cutting-blade being clamped between said plate and the beam of the machine, in connection with a plate located between the other side of the ring and beam, said plate having projections which engage the beam and ring, all as will be hereinafter fully set forth, and specifically pointed out in the claim.

In the drawings forming part of this specification, Figure 1 is a perspective view showing the application of my improvements. Fig. 2 is a plan view. Fig. 3 is an end view, and Fig. 4 is an elevation showing opposite side.

Referring more particularly to the drawings, 1 designates a rectangular band of metal the ends of the connecting portions 2 2 of which are inclined with respect to the side pieces 3 3, the said band being of a greater width than the width of the beam, while the ends are adapted to bear snugly against the upper and lower sides of the said beam. One of the side pieces of the band 1 is provided with threaded apertures 4 4, through which are passed screws 5, having either square heads or transverse openings to receive a lever by which they may be manipulated. The shank of the cutting-blade (designated by the numeral 6) is passed up between the side of the band and the adjoining side of the beam, in which position it is clamped by the screws 5, an interposed plate 10 being arranged and against which the screws bear.

It will be obvious that the angle of the cutting-blade with respect to the beam can be varied to suit different circumstances and the screws turned with sufficient force to hold them and the plate 10 adjusted.

Between the side of the band opposite to that which carries the screws and plate is positioned a flat plate 7, the upper and lower ends of which are provided with opposite extensions 8 and 9, which bear against the band and beam, respectively. This plate serves the purpose of preventing the band twisting upon the beam after the parts have been arranged thereon.

The improvements herein described serve to rigidly clamp cutting-blades in engagement with their supporting-beam, and the angle of said blades may be varied, though it is apparent that they cannot be moved beyond a certain angle on account of their contact with the opposite edges of the connecting portions of the band. The arrangement is simple, can be readily applied, and when applied is effective in its operation.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

In an attachment for cultivators and harrows, the combination with a beam and cutting-blade, of a rectangular band encircling the beam, the ends of said beam being formed to bear against the upper and lower sides of the beam and to retain the side pieces of the band at an angle with respect thereto, screws passed through one side of the band, and engaging a plate bearing against the shank of the cutting-blade to clamp the same against the beam; with a plate placed on the opposite side of the beam having opposite extensions at its upper and lower ends to bear against the beam and band, substantially as shown and for the purpose set forth.

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

C. NOEL LAMBERT.

Witnesses:

E. S. MALONEY,

Z. J. WOOD.