

(No Model.)

C. O. RICHTER.

HOE.

No. 263,430.

Patented Aug. 29, 1882.

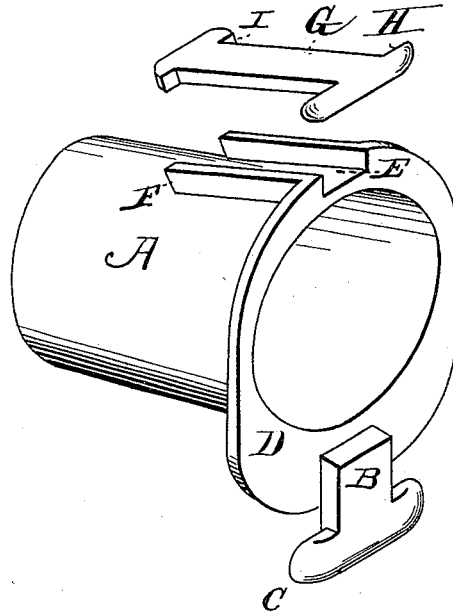


Fig 1

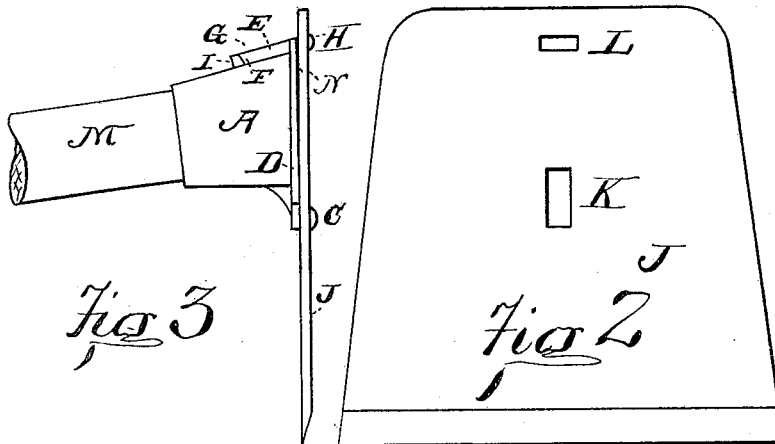


Fig 3

Fig 2

WITNESSES:

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CHARLES O. RICHTER, OF HAMILTON, OHIO.

HOE.

SPECIFICATION forming part of Letters Patent No. 263,430, dated August 29, 1882.

Application filed July 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES O. RICHTER, of Hamilton, Butler county, Ohio, have invented certain new and useful Improvements in Hoes, of which the following is a specification.

This invention relates to the method and means for attaching the blade of a hoe to the eye which receives the handle.

In the accompanying drawings, Figure 1 is a perspective view of the eye and tie-link; Fig. 2, a front view of the blade, and Fig. 3 a side view of the complete hoe.

A is the eye, having an interior fitted to receive a handle, M, as usual. The front end of the eye A is provided with a face-flange, D, against which the blade J seats. At the front and bottom of the flange D projects a block, B, whose thickness is somewhat greater than the thickness of the blade J, and whose form is such as to fill the lower perforation, K, in the blade. This block is provided with ears or wings C projecting sidewise from it. The wings C are thinner than the block B, thus leaving a space between the rear surfaces of the wings and the face of the flange D to receive the blade J. On the top of the eye A are cast two hooking-lugs, F, preferably carried forward as continuing ribs to join the flange D, as shown, thus forming a longitudinal groove, E, in the top of the eye. The upper perforation, L, in the blade J coincides in position with the front end of the groove E when the blade is in position.

G is a tie-link, having ears H in front to engage with the blade J and ears I at the rear end to engage with the lugs F. The link is preferably made of such form and size as to neatly fill the groove E, and thus present a neat appearance, free from dirt-catching cracks, when the parts are joined. The eye and blade

are so fitted that when united by the hooks or ears C there will be a slight space at N between the flange and blade at the upper side of the eye, so that force will be required to bring the surfaces together at this point. This space may be secured by forming clearance at the upper part of the face of the flange, by giving a slight outward set or bend to the blade, or by so locating the ears C that they will tend to prevent the blade seating fairly and easily against the upper part of the flange-face. The perforation K can be hooked over the ears C and onto the block B. The link or tie G can be passed through the perforation L by a hooking action.

To unite the parts the blade is hooked over the ears C and put in proper position on the block B. The tie or link G is passed from the front through the perforation L till its ears H engage with the face of the blade and its ears I rest above the lugs F. Force is then applied to the top face of the blade till it springs back toward the top face of the eye far enough to allow the ears I of the tie to drop into proper engagement with the lugs F. To disunite the parts the operation is reversed.

I do not confine myself to the form of bottom hook, B C, shown and described, nor do I confine myself to the exact form of tie-link shown and described.

I claim as my invention—

In a hoe, the combination, substantially as set forth, of blade J, having perforations K and L, eye A, having top lugs, F, and bottom attaching device, B C, and the tie or link G, constructed and arranged to operate substantially as specified.

CHARLES O. RICHTER.

Witnesses:

J. W. SEE,
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