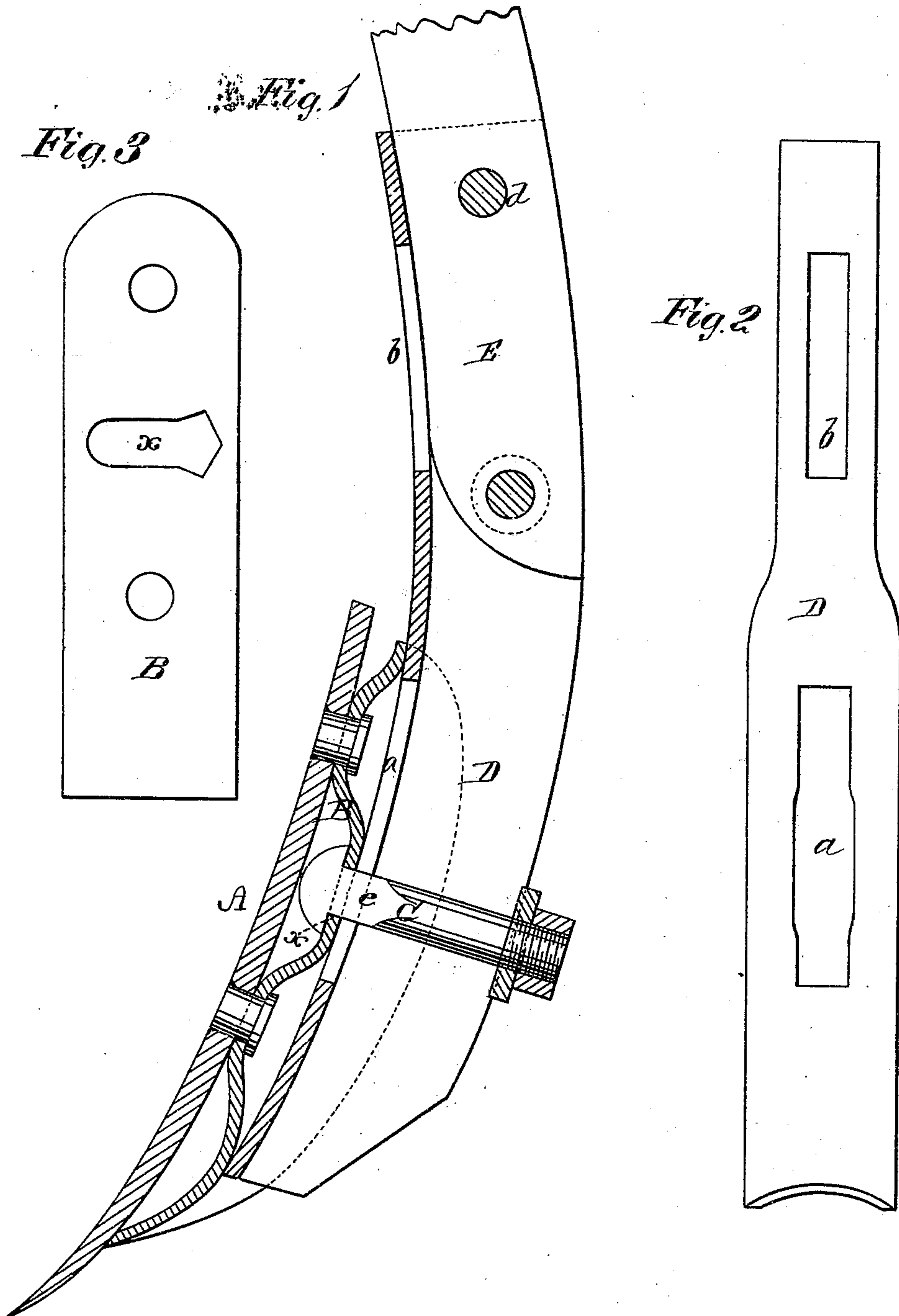


E. P. LYNCH & E. A. WRIGHT.
CULTIVATOR.

No. 175,721.

Patented April 4, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE.

EDWARD P. LYNCH AND EDGAR A. WRIGHT, OF DAVENPORT, IOWA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **175,721**, dated April 4, 1876; application filed February 19, 1876.

To all whom it may concern:

Be it known that we, EDWARD P. LYNCH and EDGAR A. WRIGHT, of Davenport, in the county of Scott and State of Iowa, have invented a new and valuable Improvement in Shovel and Beam Connection for Cultivators; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal section of our device, and Figs. 2 and 3 are plan views thereof.

Our invention relates to the connection between the shovel and beam of an ordinary walking or riding cultivator; and it consists in the construction and general arrangement of the sleeve, block, and bolt used to form such connection, as will be hereinafter more fully set forth.

In the annexed drawing, A represents the shovel; B, the block; C, the bolt; D, the sleeve, and E the beam. The sleeve D is made substantially in the ordinary form, and has a slot, *a*, for the passage of the bolt C. In the upper or front part of the sleeve we cut out a slot or opening, *b*, as shown. The sleeves heretofore used have either been made all tight or closed in front, or else open all the way down, at the lower as well as at the upper part, while we simply make a slot or opening, *b*, at the upper part. A sleeve all solid in front is objectionable, because when the wood-pin *d*, which goes in the top hole through the beam E, breaks, the sleeve turns forward and fills with dirt, and frequently becomes so packed there that it is difficult to remove the dirt therefrom. The sleeve that is open all the way up is weak and liable to be bent. We secure by our construction a strong sleeve, as well as a convenient arrangement for re-

moving the dirt that may accumulate there. The slot *a* in the lower part of the sleeve is made just wide enough to admit the square neck *e* of the bolt, and not large or wide enough to allow the bolt to turn while being screwed up. The head of the bolt C is made in T-form, and the slot *x* in the block B, through which it passes, is made irregular or in such form that in some portion thereof it may be turned so as to be removed, while in other portions of the slot the square neck so fits that the bolt will not turn when being screwed up.

By this construction the bolt may be removed from the block and shovel very readily, and without having to unrevet and remove the shovel from the block.

The block and bolt thus made may be used on the old style of sleeve, having large and wide opening all the way down.

What we claim as new, and desire to secure by Letters Patent, is—

The sleeve D, having the slots *a b*, in combination with the block B, attached to the shovel, and provided with the irregular-shaped slot *x*, and the bolt C, having a square neck, *e*, fitting the slot *a* in the sleeve, substantially as described, and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

EDWARD P. LYNCH.
EDGAR A. WRIGHT.

Witnesses to signature of EDWARD P. LYNCH:

A. JACKSON HIRSCHL,
JNO. H. QUINN.

Witnesses to signature of EDGAR A. WRIGHT:

A. JACKSON HIRSCHL,
HADLEY M. HENLEY.