

(Model.)

W. R. SCOFIELD.

SHACKLE IRON FOR WHIFFLETREES.

No. 251,140.

Patented Dec. 20, 1881.

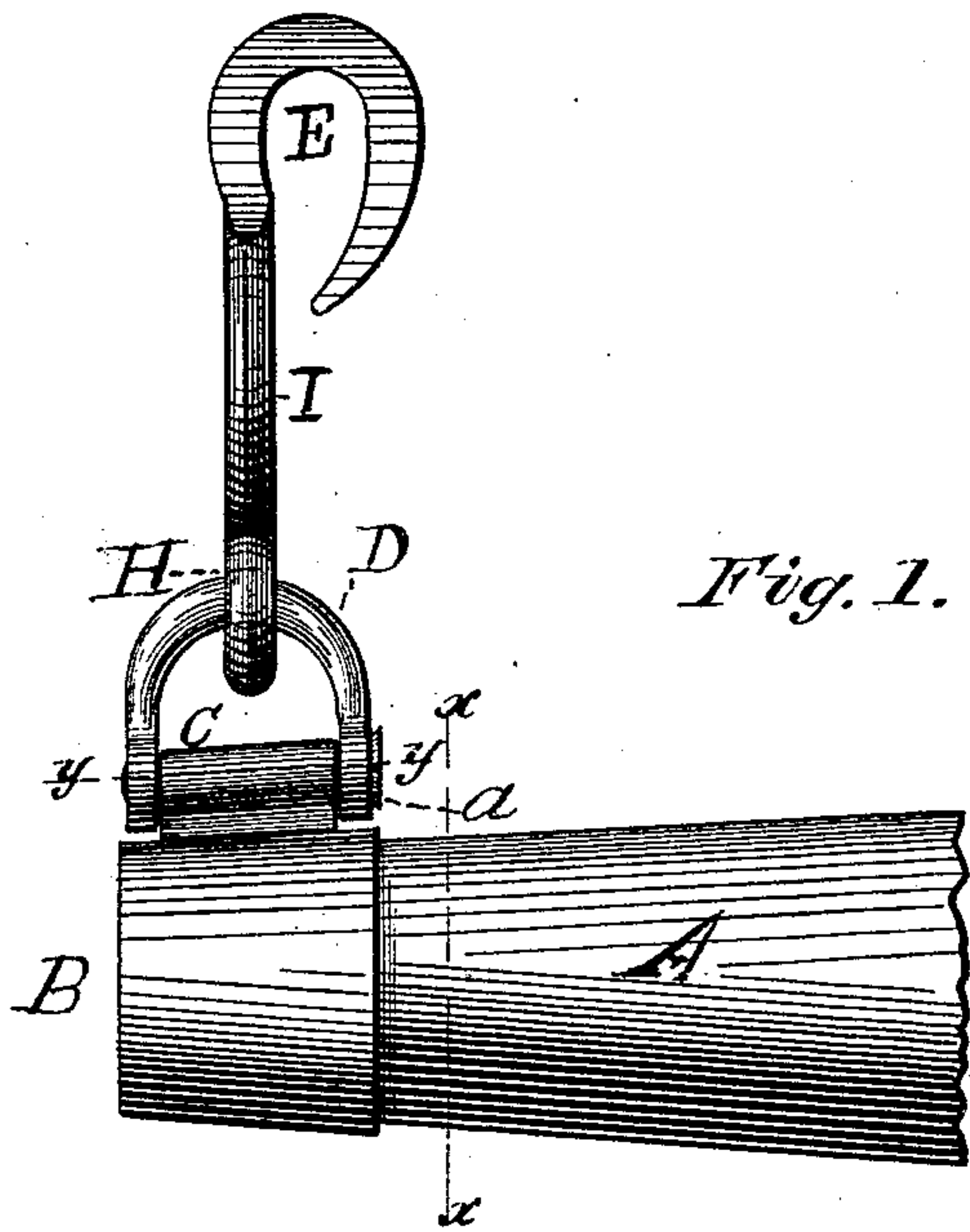


Fig. 2.

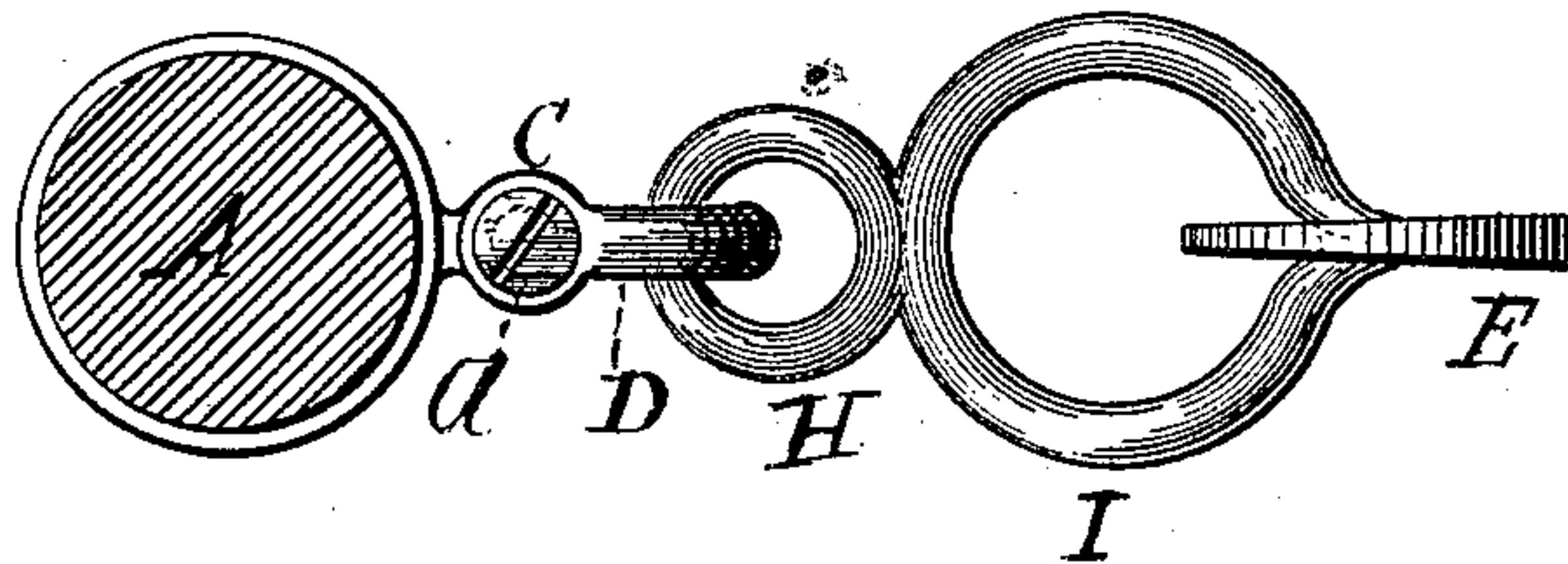


Fig. 3.

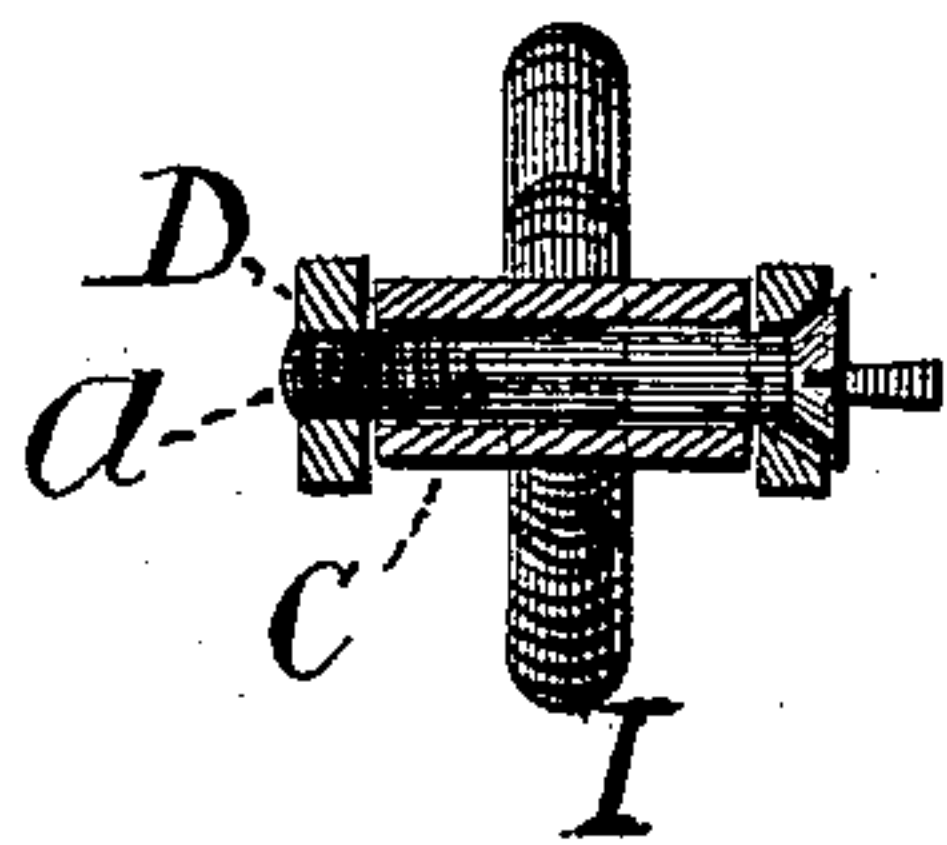
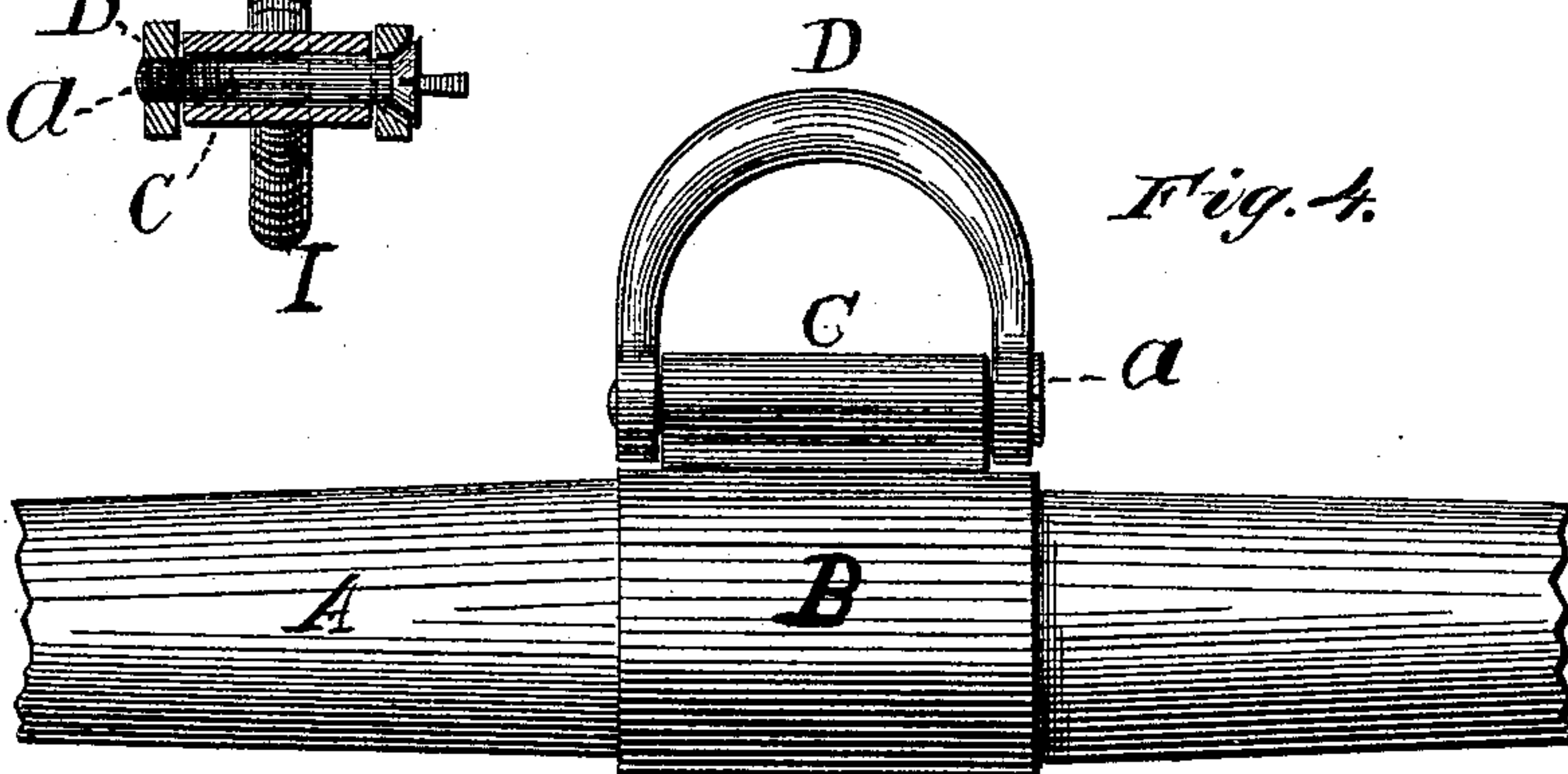


Fig. 4.



WITNESSES

Adm. L. Dietrich
L. C. Dietrich

INVENTOR

William R. Scofield
A. P. R. Peck
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM R. SCOFIELD, OF DE WITTVILLE, NEW YORK.

SHACKLE-IRON FOR WHIFFLETREES.

SPECIFICATION forming part of Letters Patent No. 251,140, dated December 20, 1881.

Application filed September 17, 1881. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM R. SCOFIELD, of De Wittville, in the county of Chautauqua and State of New York, have invented a new and useful Improvement in Shackle Irons for Whiffletrees; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents my improvement attached to the end of a whiffletree. Fig. 2 is a transverse section of the same, taken at line *x* of Fig. 1. Fig. 3 represents a central longitudinal section of the detachable hinge-connection, taken at line *y y*. Fig. 4 represents the D-shaped hinge-connection and ferrule or socket as attached to the center of a whiffletree.

My improvement relates to the manner of constructing and connecting the parts of shackle-irons for whiffletrees, and provides the means for readily removing a worn and weak part and substituting a new part without mechanical aid or assistance, as hereinafter described.

Shackle-irons for whiffletrees are usually forged and welded, the D-shaped loop D being made as a part of ferrule B. The chain or trace hook being connected with loop D, as seen in Fig. 1, by constant abrasion causes loop D to be worn away, so as to be no longer safe for use, while its ferrule embracing the whiffletree remains unimpaired, and consequently when the loop D and ferrule B are formed as a single piece both must be cast aside and a new mounting substituted, although the ferrule remains perfectly good. Such is also the result from wear of the loop I, connected with the hook, and for this reason I have provided the second small loop, H, which, when it becomes too much worn to be safely used longer,

may be cut off from loop I and the latter be used in its stead, in connection with a new loop, D. The screw-bolt *a* and thimble C furnish the means and ready facility of making the substitution above specified, the object of my invention being to utilize all the parts of the shackle until each becomes too much worn to serve the purpose intended.

In the drawings, A denotes the whiffletree; B, the collar or ferrule; C, the thimble or hinge-socket, which is cast with ferrule B; D, the loop, connected by the hinge-bolt *a* to the thimble C; and E is the hook provided with the two loops H I, and as each of the parts—namely, the hook with its two loops, the hinge-loop D, and the ferrule B, with its thimble C—may be cast of malleable iron the shackle-iron is cheapened in construction, and economy is attained by the means of supplying a new part for one which has become frail and worthless, without having to cast aside a part still unimpaired.

Having described my invention, I claim and desire to secure by Letters Patent—

1. The combination of the thimble-bearing C, cast as a part of the ferrule B, with the shackle-loop D, substantially as and for the purpose herein specified.

2. The combination of the thimble-bearing C, cast as a part of the ferrule B, shackle-loop D, and the pivot-bolt *a*, screwed into the bearing C, substantially as and for the purpose herein specified.

3. The combination of the thimble-bearing C, removable shackle-loop D, and double loops H I, formed on the hook E, substantially as and for the purpose herein specified.

WILLIAM RAY SCOFIELD.

Witnesses:

WM. BARNHART,
JOHN JOHNSON.