

H. G. MORGAN.
THILL-COUPPLINGS.

No. 195,524.

Patented Sept. 25, 1877.

Fig. 1.

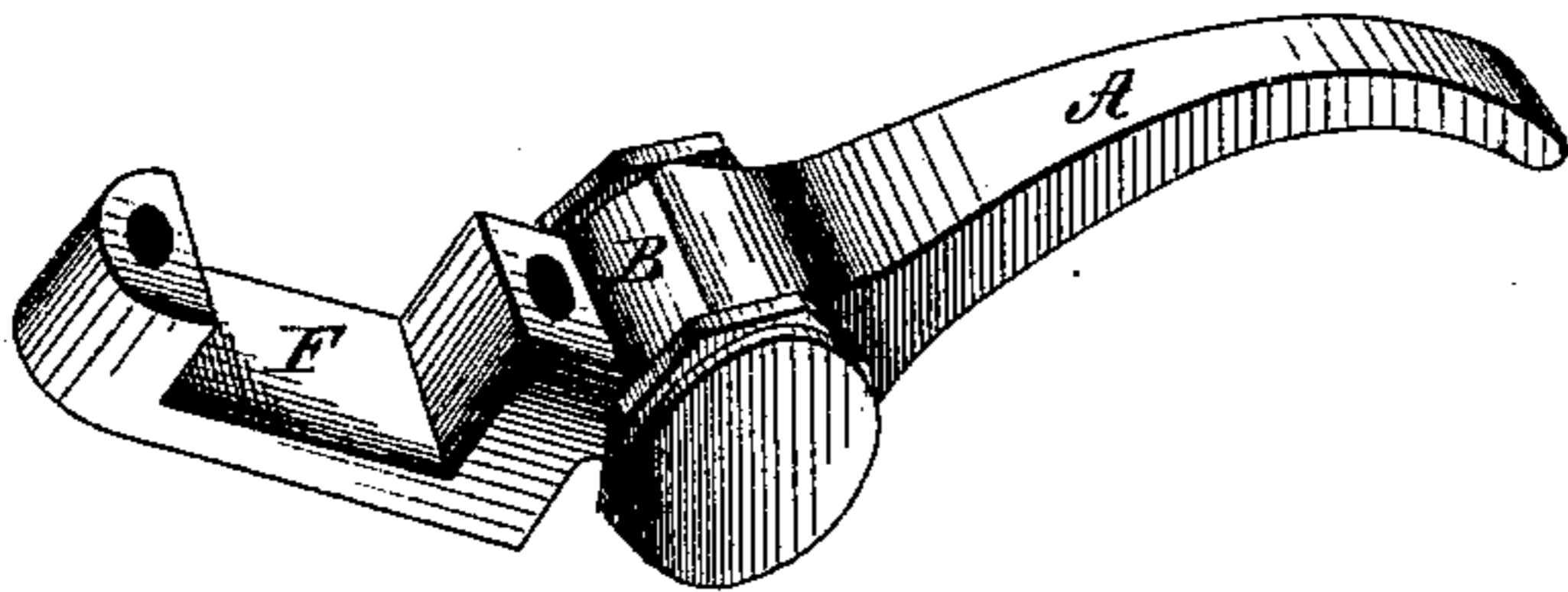


Fig. 2.

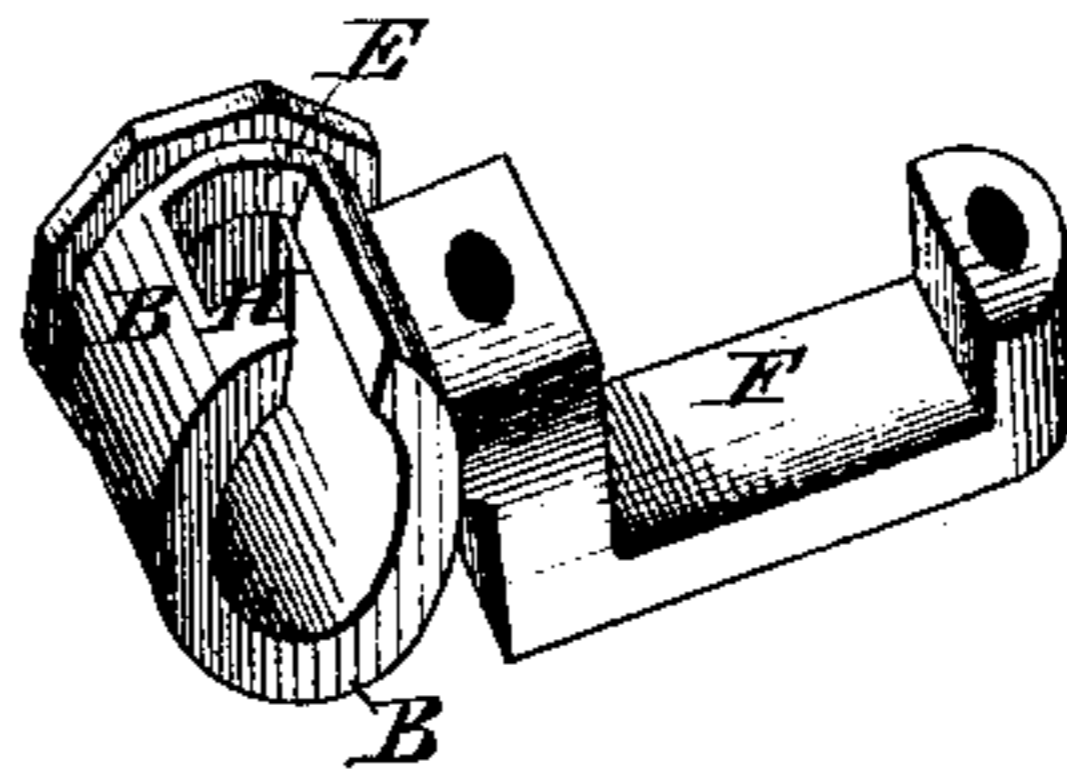


Fig. 3.

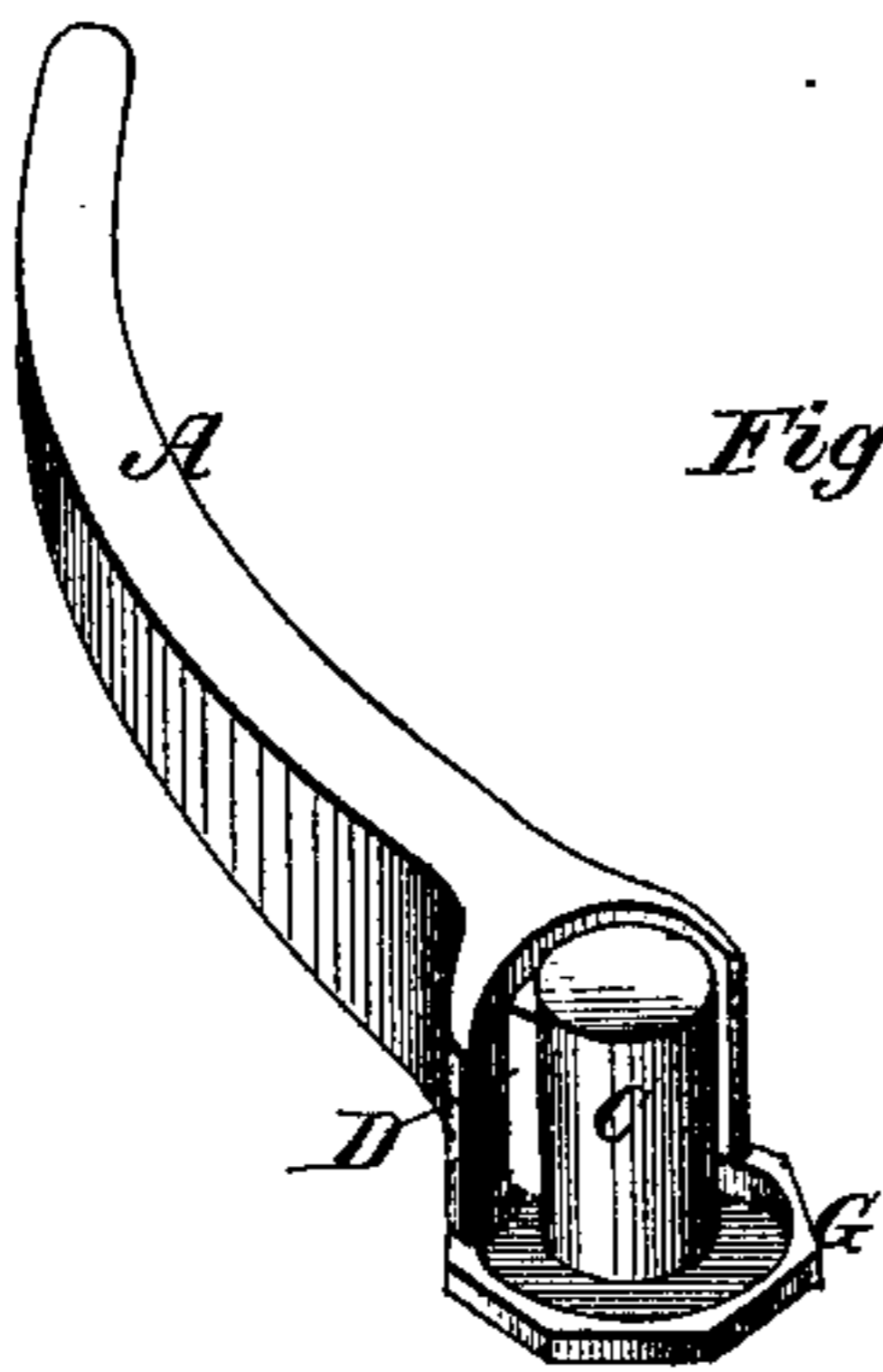


Fig. 4.

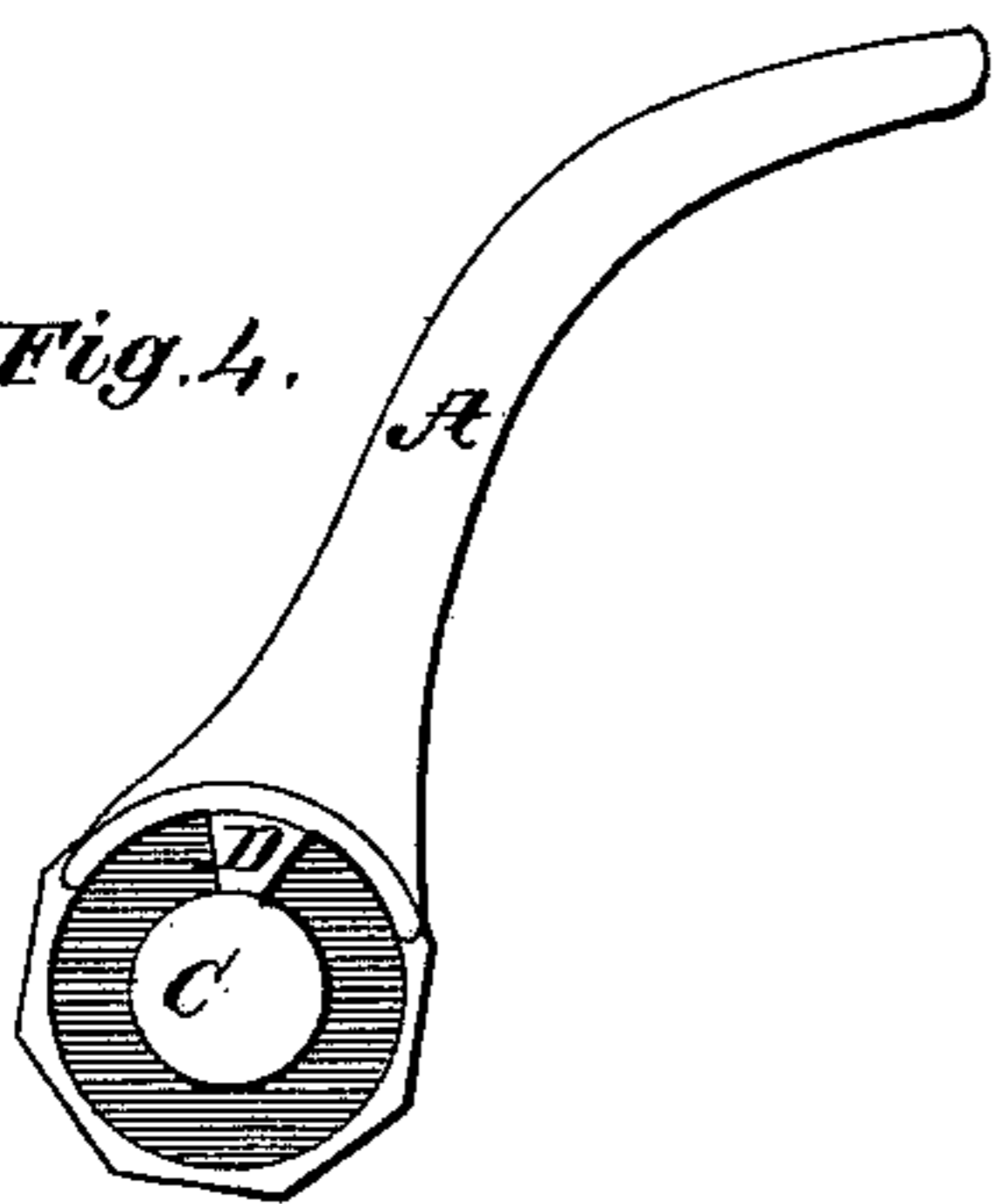
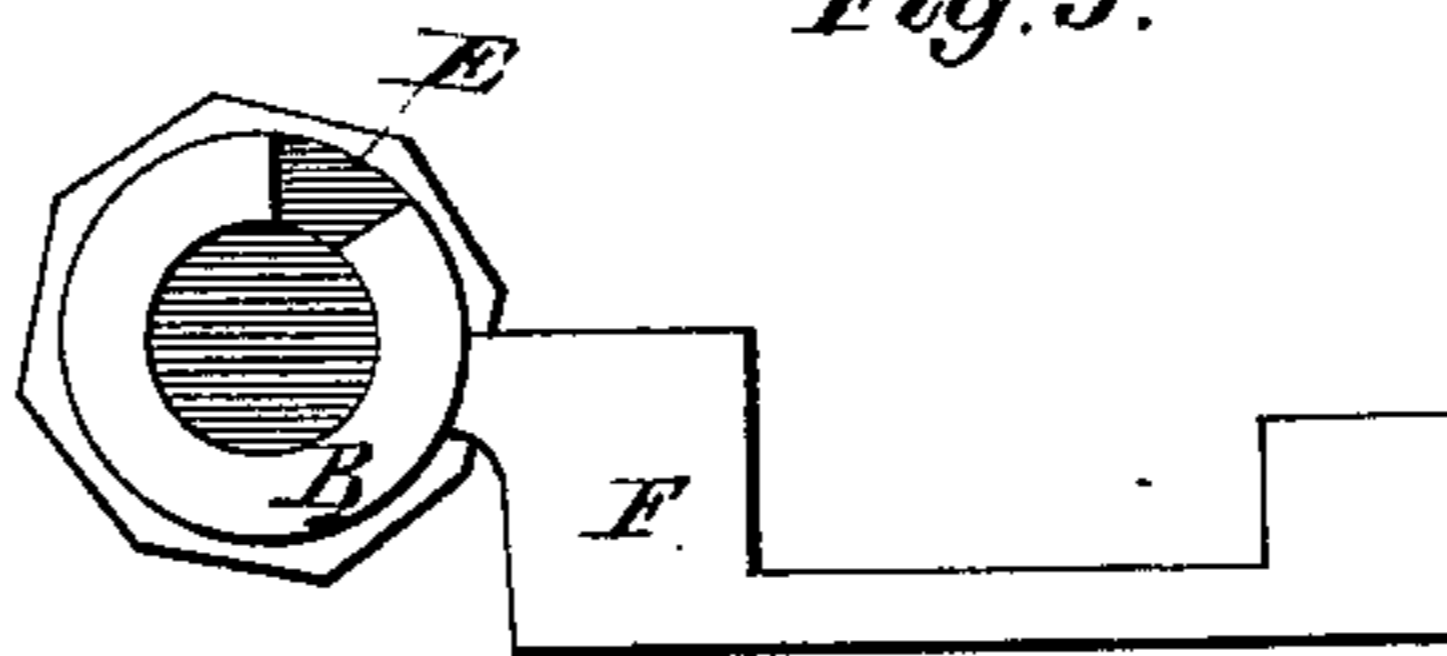


Fig. 5.



Attest.

W. M. Downs
R. A. Bill.

Inventor:

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UNITED STATES PATENT OFFICE.

HENRY G. MORGAN, OF EAU CLAIRE, WISCONSIN.

IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. **195,524**, dated September 25, 1877; application filed March 19, 1877.

To all whom it may concern:

Be it known that I, HENRY G. MORGAN, of Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented new and useful Improvements in Thill-Couplings; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improved coupling. Figs. 2 and 3 are perspective views of the parts composing said coupling separated from each other, and Figs. 4 and 5 are side views of the same.

Similar letters of reference occurring on the several figures indicate like parts.

My invention has for its object to furnish an improved thill-coupling combining strength and efficiency with a simple and ready operation of the parts composing the same, whereby its accidental detachment is rendered impracticable, and at the same time the separation of parts easily accomplished, if desired; and it consists in the details of construction and general arrangement of parts, all as will be hereinafter more fully described, and pointed out in the claims.

Referring to the drawings, A represents the thill-iron, having an enlarged head, provided on one side with a cap, G, from which extends a cylinder, C, between which and the enlarged head is provided a neck-iron, D, leaving a recess at the bottom between the cylinder and the head of the thill-iron, as shown in Fig. 3. F represents the connecting-jaw, provided at one end with the hollow cylinder B, open at one end, and having a longitudinal slot, E, at its upper side, which is provided with a projecting shoulder, H, at the outer end, as fully shown in Fig. 2.

The parts thus constructed and arranged are connected together, as shown in Fig. 1, by inserting the cylinder C in the hollow cylinder B, the neck of the thill-iron A passing through the slot E until the two parts are fitted closely together, when, by depressing the outer end of the thill-iron A, the cylinder C turns partially around in the hollow cylinder B, and the projection H enters the recess between the cylinder C and the head of the thill-iron, thereby locking the parts in place and preventing their accidental lateral displacement.

When it is desired to disconnect the parts, the thill-iron A is raised at right angles to the coupling, thereby withdrawing the projection H from the recess, and permitting of the easy separation of the parts.

Having thus described my invention, I claim as new and useful—

1. In a thill-coupling, the connecting-jaw F, having hollow cylinder B, provided with slot E and projection H, in combination with the thill-iron A, having cylinder C, cap G, and neck-iron D, the several parts being constructed, arranged, and combined to operate substantially as and for the purpose set forth.

2. In a thill coupling, the thill-iron A, having cap G, provided with the cylinder C and neck-iron D, constructed with a recess at one side, at the base of the cylinder, for engagement with the projection H of the hollow cylinder B, substantially as and for the purpose specified.

HENRY G. MORGAN.

Witnesses:

W. W. DOWNS,

R. A. BILL.