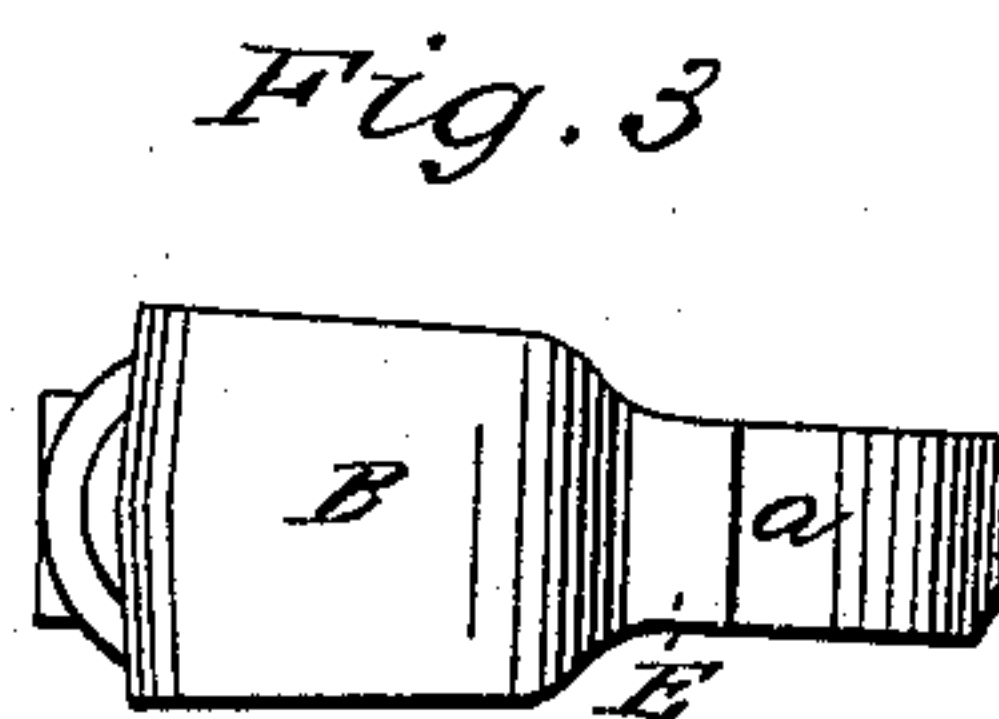
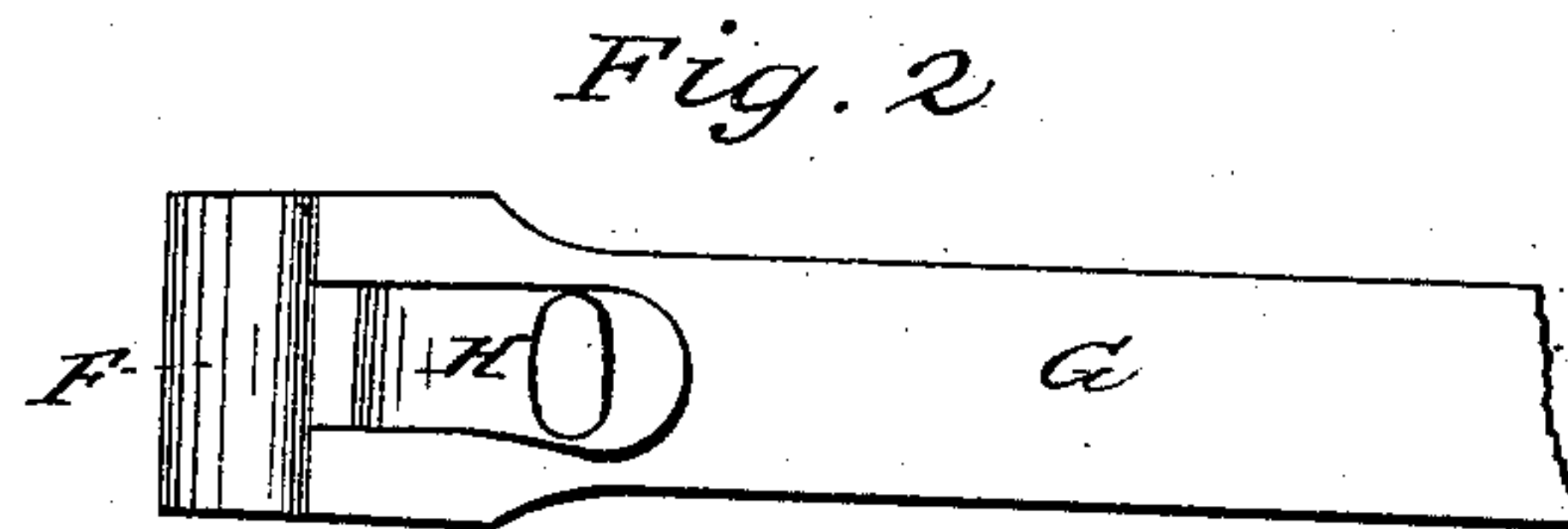
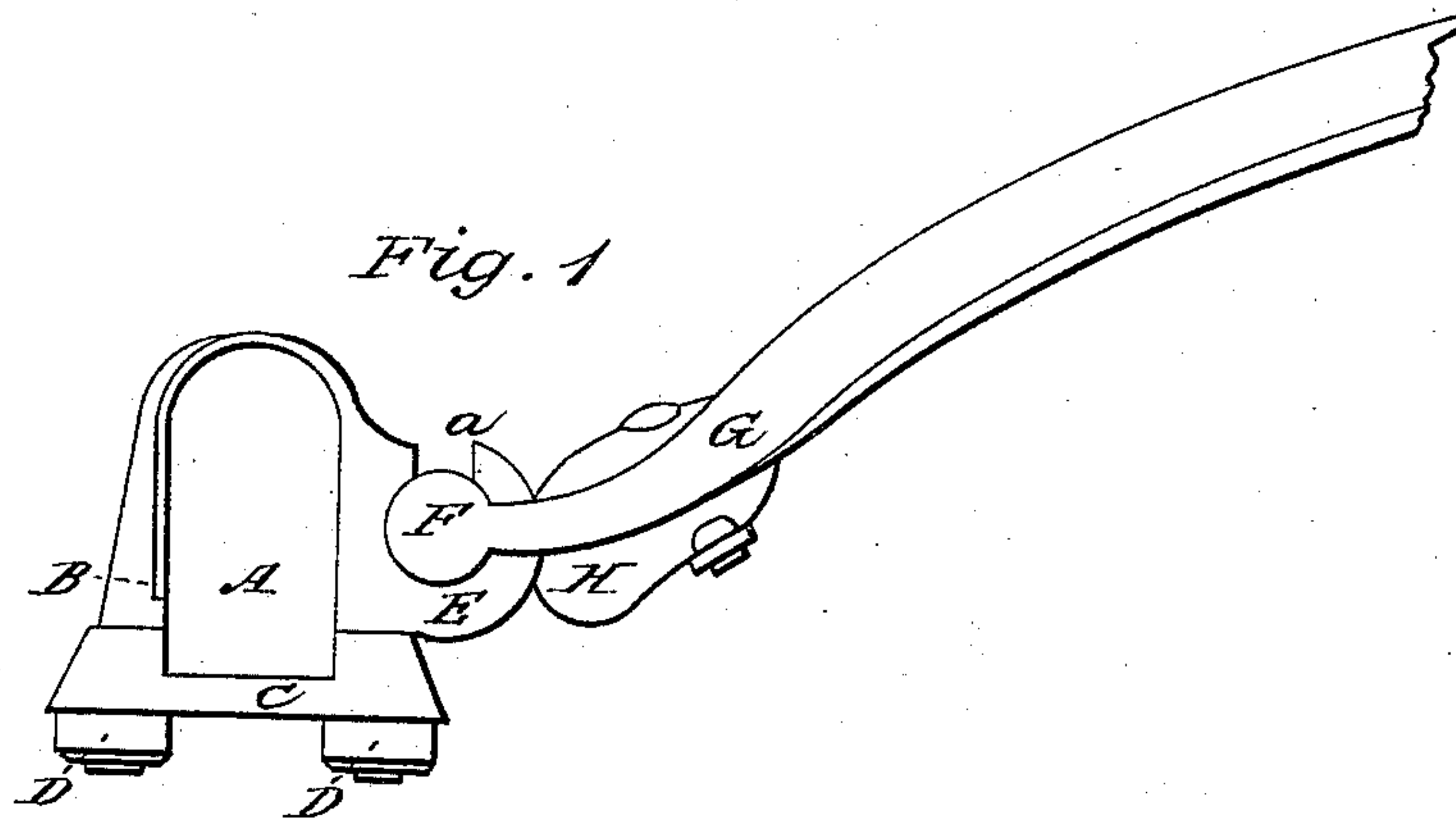


A. S. HARRY.
Thill Coupling.

No. 99,890.

Patented Feb. 15, 1870.



Witnesses:
J. H. Burridge
R. Coon

Inventor:
A. S. Harry

United States Patent Office.

ALBERT S. HARRY, OF WOOSTER, OHIO.

Letters Patent No. 99,890, dated February 15, 1870.

IMPROVEMENT IN THILL-COUPPLINGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ALBERT S. HARRY, of Wooster, in the county of Wayne, and State of Ohio, have invented certain new and useful Improvements in Carriage-Coupling; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side view of the coupling.

Figures 2 and 3, detached sections.

Like letters of reference refer to like parts in the different views.

In fig. 1, A is the clip, a detached view of which is shown in fig. 3, and which is or may be constructed in the ordinary way, with a bow, B, and cross-plate or bar C, and secured to each other and to the axle-tree by nuts D.

Proceeding from one side of the bow is a hook, E, into which is fitted the roll F of the reach or thill-irons G, the bottom of the hook being enlarged and rounded for the reception of the roll, and in which it works as the thills may be raised upward or downward.

In order to attach or detach the reach-iron to or from

the hook the thills are elevated until that section of the reach immediately connected to the roll is in direct relation with the notch *a*. Then by a side movement the roll may be slipped from the hook or into it, as the case may be.

H is a piece of rubber or other elastic material secured in the eye of the reach-iron, which, when the two sections are coupled together, said rubber will press upon the hook, and thereby draw the roll close in the hook and prevent all rattling and noise.

This coupling is simple in its construction, neat, durable, and easy to manipulate. It is also perfectly safe, as it cannot become disconnected unless by bringing the thills to a vertical position, as above said.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The combination of the reach G with roll F, hook and clip B C E, and rubber pad H, all constructed, arranged, and operating substantially as specified.

ALBERT S. HARRY.

Witnesses:

E. M. BROWN,

J. H. BURRIDGE.