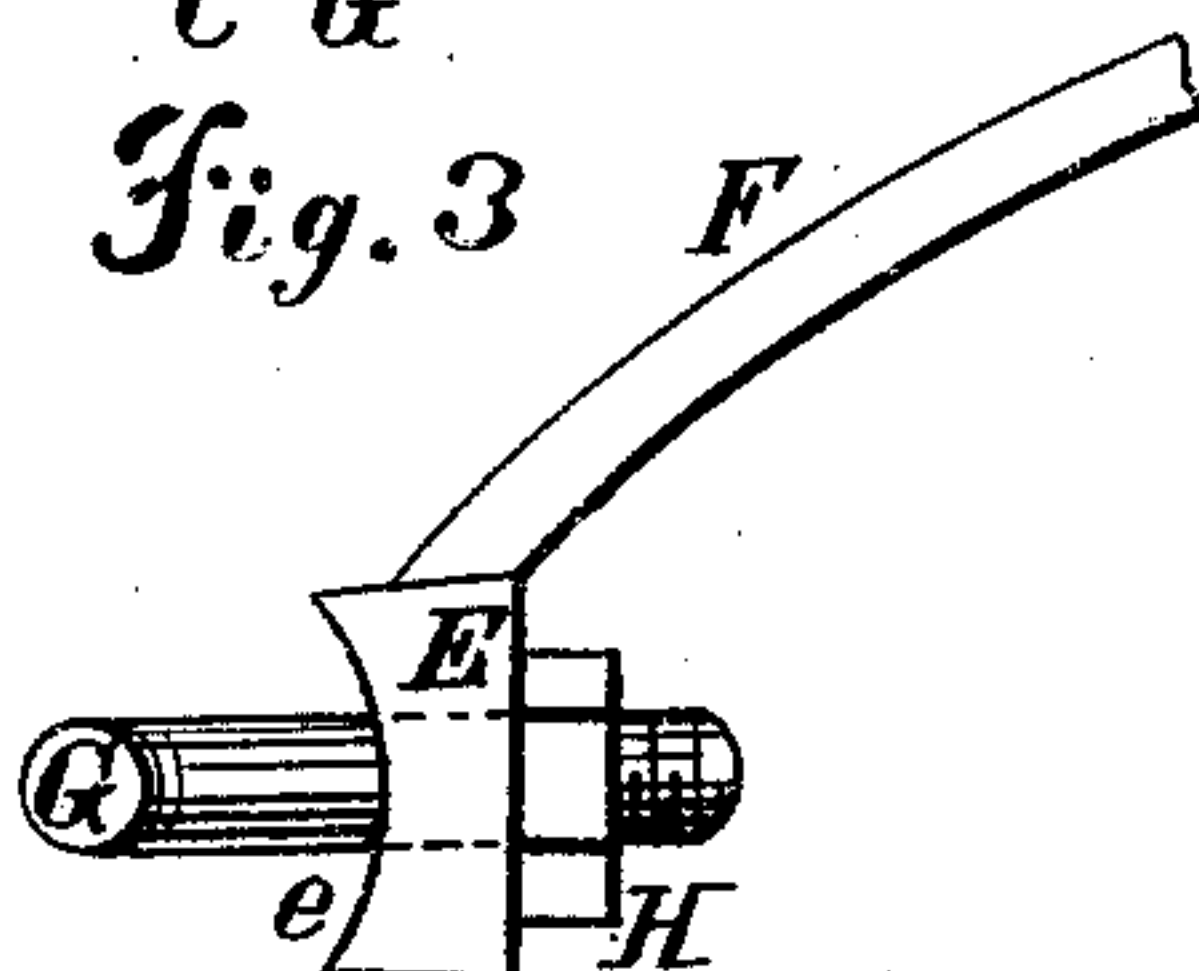
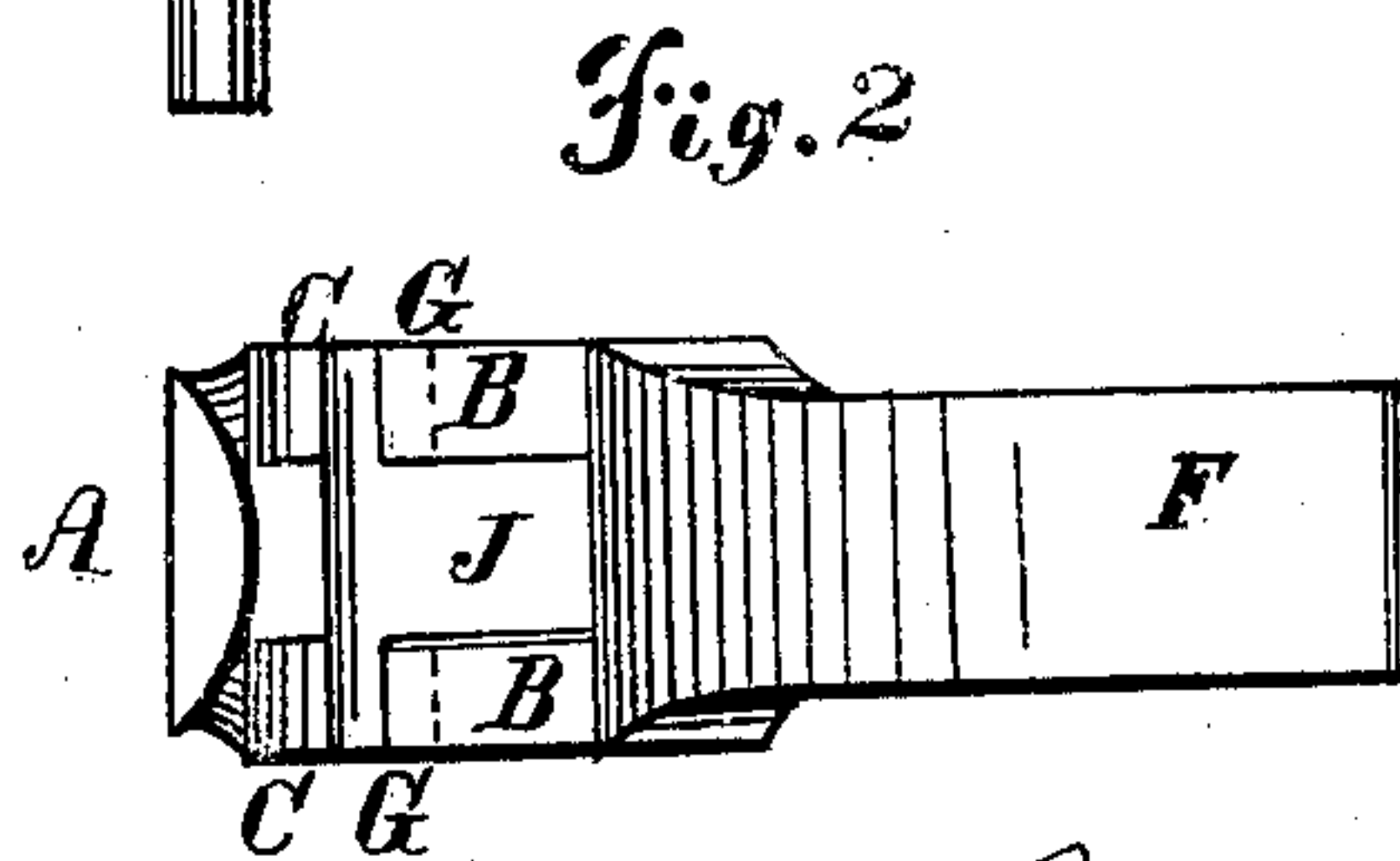
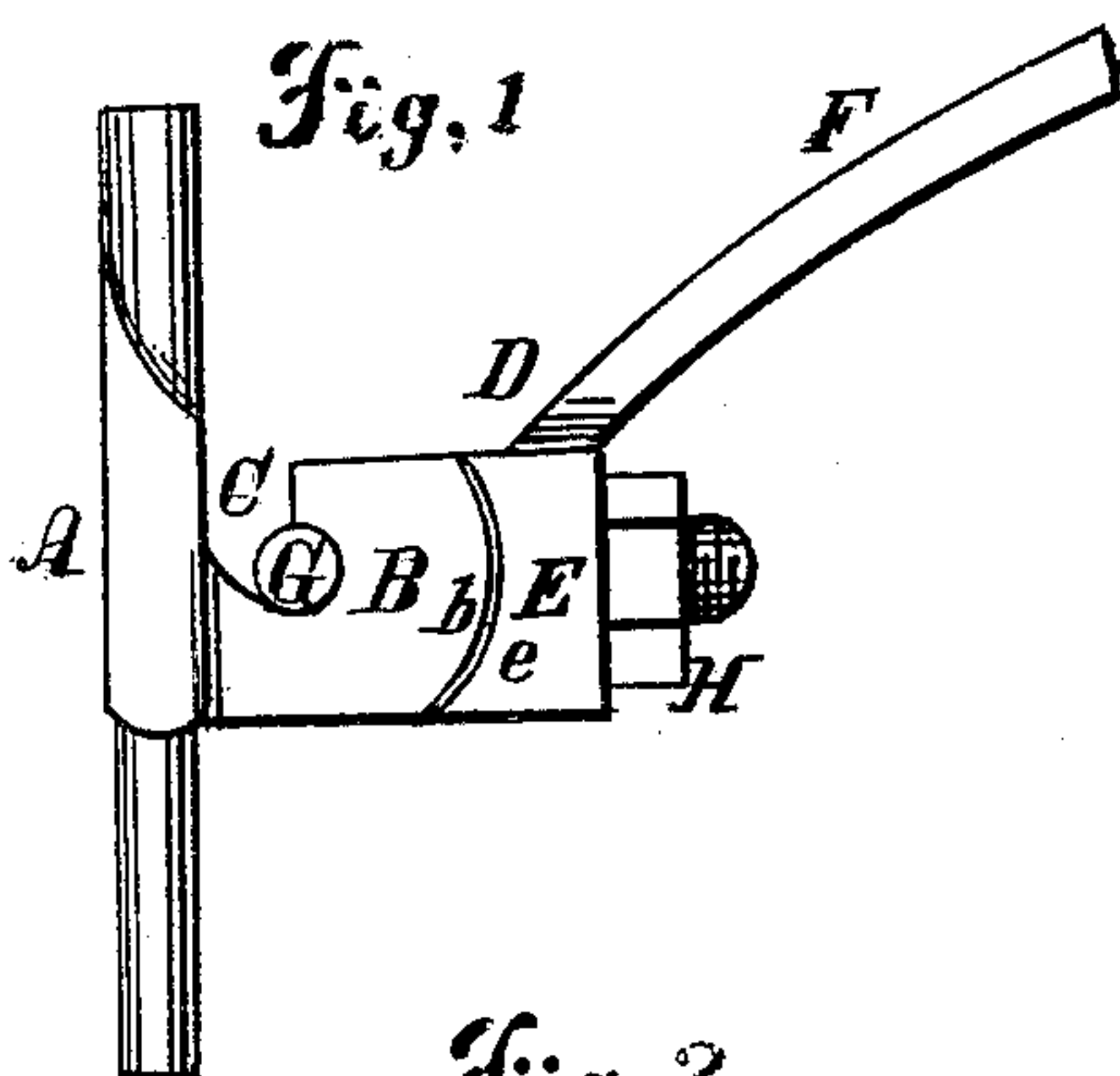


C. E. SWENEY.

Thill Coupling.

Patented May 18, 1869.

No. 90,206.



Witnesses.

Amehman
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CHARLES E. SWENEY, OF GENESEO, ILLINOIS.

Letters Patent No. 90,206, dated May 18, 1869.

IMPROVEMENT IN THILL-COUPLING.

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, CHARLES E. SWENEY, of Geneseo, in the county of Henry, and State of Illinois, have invented a new and useful Improvement in Thill-Coupling; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a new and useful improvement in couplings for thills, shafts, and poles for carriages, and for all descriptions of highway-vehicles, whereby simplicity, durability, and perfect security are combined; and

The invention consists in the construction and arrangement of parts as hereinafter described.

In the accompanying plate of drawings—

Figure 1 represents a side view.

Figure 2 is a top view.

Figure 3 is a view of the part connected with the thill, detached.

Similar letters of reference indicate corresponding parts.

A is the clip, which is attached to the axle.

B B represent projections from the clip, with slots C next to the clip, and with circular recesses below the slots for bearings for the pivots of the thill-portion, as seen in fig. 1.

The outer edges of these projections B B form arcs of circles, *b*, the radius of which circles is their distance from the centre of the pivots.

D represents the part of the coupling which is attached to the thill.

This consists of the block E, the inner side of which

forms a concave, *c*, to fit the arcs of circles on the projections B B.

F is the shank, which is bolted to the thill or pole.

G G represent the pivots.

The pivots form part of a T-shaped pin, marked J, the body of which fits between the projections B B, with a shank or foot, which passes through the block E, upon the end of which shank the screw-nut H is placed, as seen in the drawing.

By means of this nut the surfaces *e* and *b* are kept in close contact, and all rattling is prevented.

When the part D is attached to the thills or pole, the thills or pole are placed in position (or the coupling is completed) by first elevating them to a vertical position, when the pivots at once find their proper bearings.

They are then brought down to the proper position, as seen in fig. 1.

It will be seen that any amount of play (up and down) is allowed, and that means are always at hand for preventing the disagreeable rattling so common in couplings of ordinary construction.

Having thus described my invention,

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

The clip A, with its projections B B, the thill part D, with the block E, pivot-pin J, and nut H, constructed, arranged, combined, and operating substantially as and for the purposes herein shown and described.

CHARLES E. SWENEY.

Witnesses:

F. H. McARTHUR,
S. Z. DUNHAM.