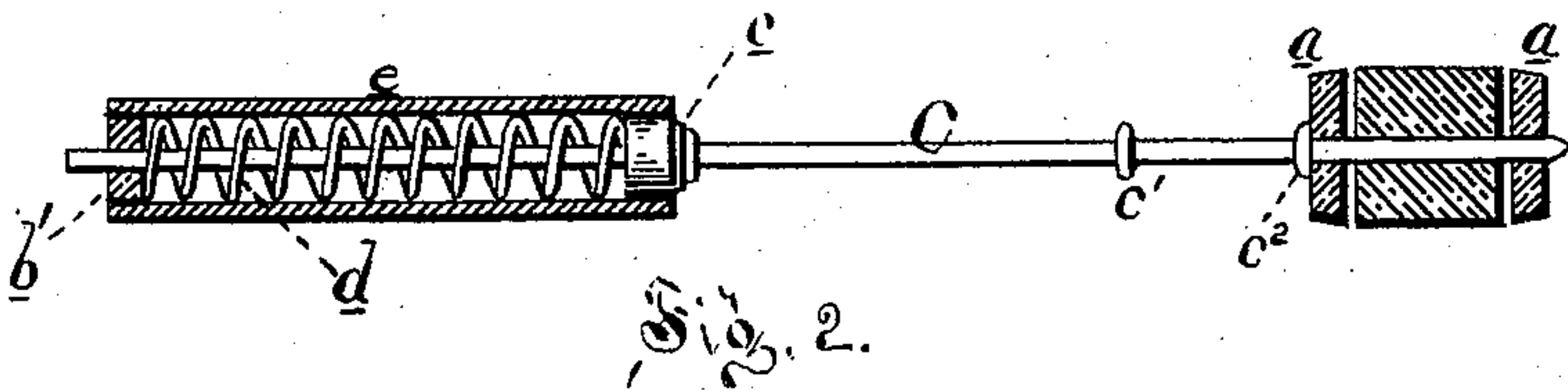
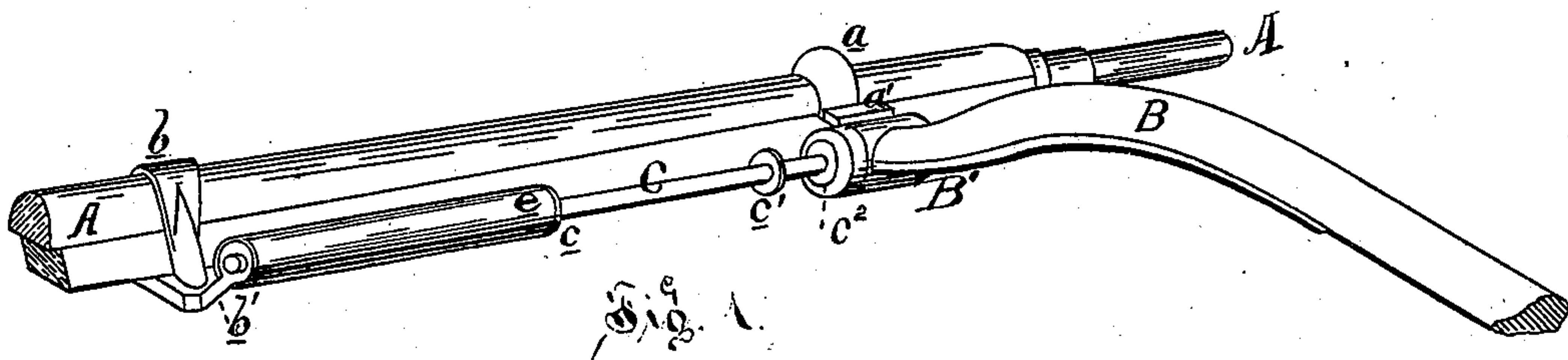


(No Model.)

C. M. STOUP.  
Thill Coupling.

No. 230,586.

Patented July 27, 1880.



West:  
T. A. Howley  
E. R. Ball

Inventor:  
Charles M. Stoup  
per attorney  
H. F. Eberts.

# UNITED STATES PATENT OFFICE.

CHARLES M. STOUP, OF FLAT ROCK, MICHIGAN.

## THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 230,586, dated July 27, 1880.

Application filed May 15, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES M. STOUP, of Flat Rock, in the county of Wayne and State of Michigan, have invented a new and useful  
5 Improvement in Thill-Couplings, of which the following is a specification.

The nature of my invention relates to an improvement in thill-couplings of that class wherein a latch bolt or spindle is impelled  
10 through the bolt-holes of the thill-clip by a spiral spring; and it consists in the novel and peculiar construction and combination of the elongated thill-bolt with a bracket on the quarter-clip, its actuating-spring, and an in-  
15 closing-case for the same, as more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a longitudinal section.

In the drawings, A represents the axle-arm,  
20 with the usual thill-clip *a* and quarter-clip *b*, the latter having a bracket, *b'*, forged on the front end of its bar, with an eye in the axial line of the bolt-holes in the thill-clip.

B is the rear end of the thill, with the iron  
25 thill-hook *B'*, behind which a rubber block or "anti-rattler" of vulcanized rubber, *a'*, is inserted between the jaws of the thill-clip.

C is an elongated bolt playing through the

eyes of the clips *a* and *b*. It is formed with three shoulders, *c c' c''*. The shoulder *c''* serves 30 as a stop to limit its movement forward in the thill-clip. The shoulder *c'* serves as a gripe by which it may be retracted, and between the shoulder *c* and the bracket *b'* of the quarter-clip a spiral spring, *d*, is interposed to auto-  
35 matically project the outer end through the eyes of the thill-clip.

The spring is covered and protected by a cylindrical casing, *e*, extending outwardly far  
40 enough to conceal it and the shoulder *c*.

By this construction and arrangement it is impossible for the thill-bolt to become de-  
tached and lost, while for ease and facility of operation it cannot be excelled.

What I claim as my invention is—

45 In combination with the thill-clip *a* and quarter-clip *b*, with its bracket *b'*, constructed as described, the coupling-bolt C, provided with shoulders *c c' c''*, actuated by the spring *d* in its case *e*, and playing through the eyes of said  
50 clips, substantially as described and shown.

CHARLES M. STOUP.

Witnesses:

ALONZO C. NOVESS,  
SPENCER LANGDON.