

(No Model.)

J. J. McARDLE.  
NUT LOCK.

No. 556,102.

Patented Mar. 10, 1896.

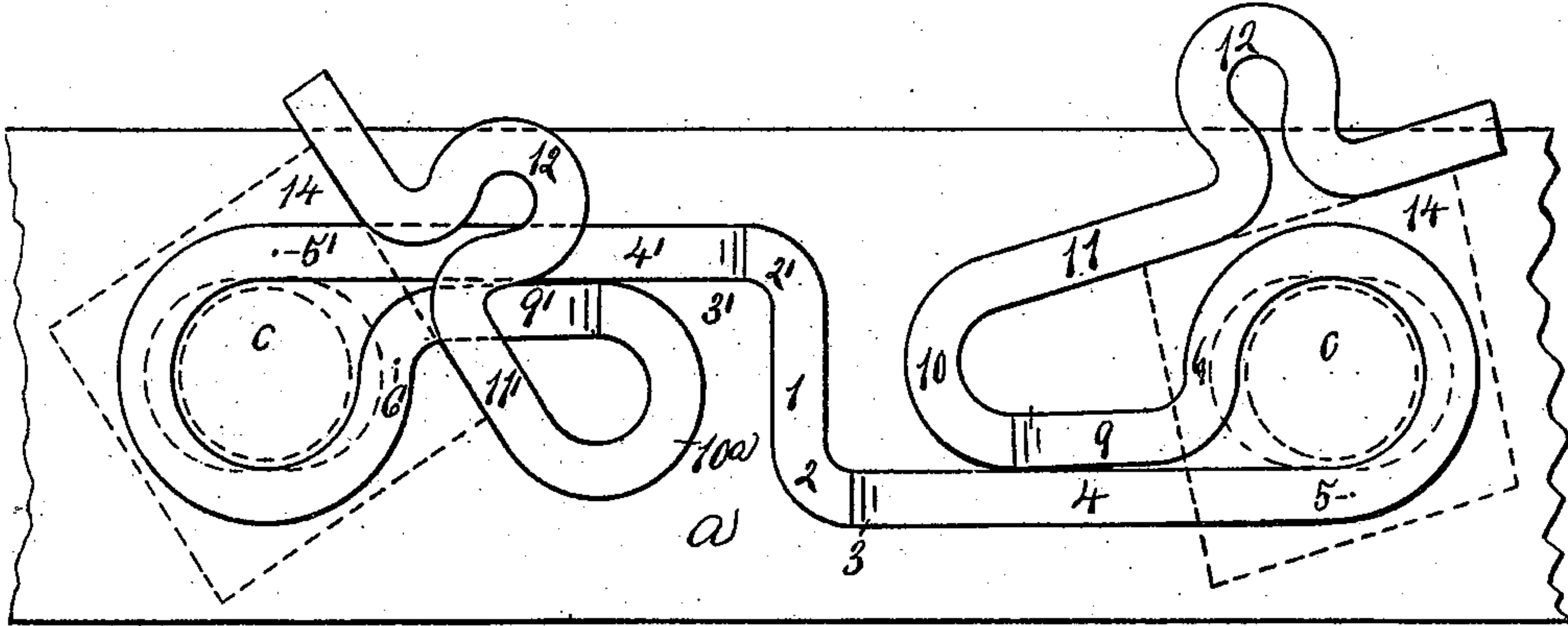


Fig. 1.

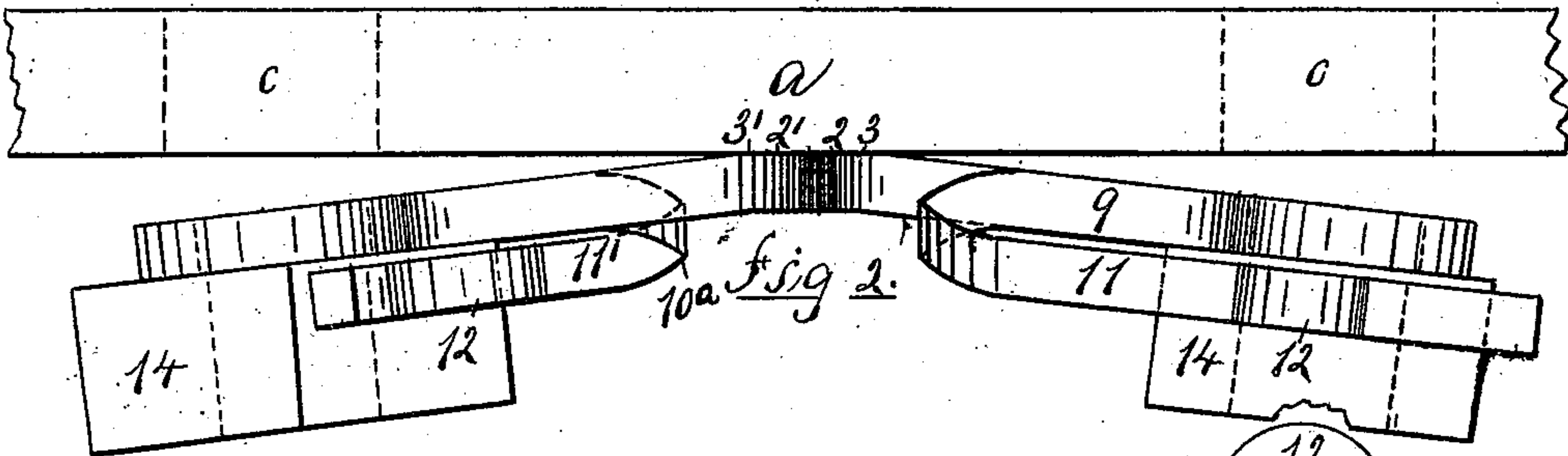


Fig. 2.

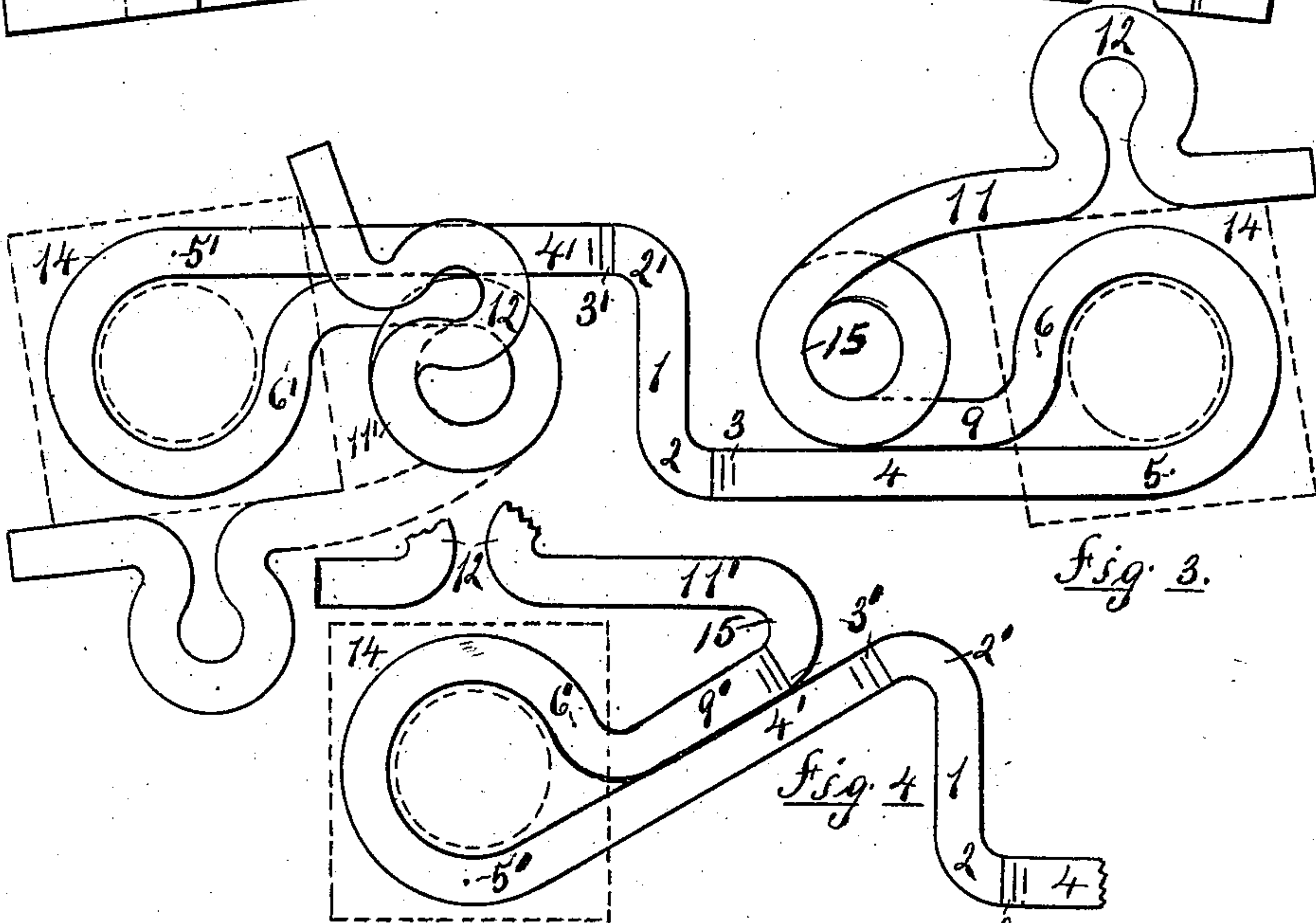


Fig. 3.

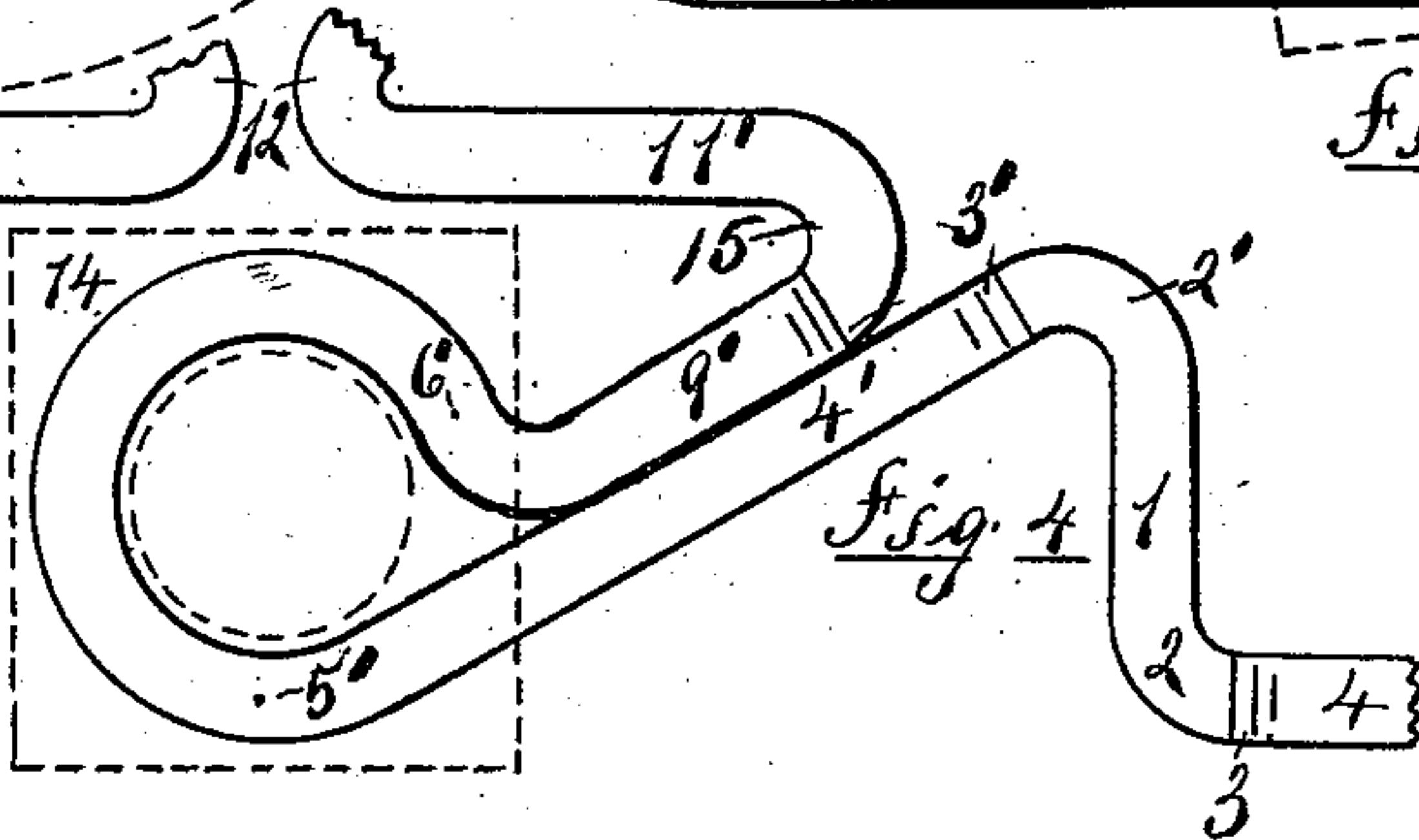


Fig. 4.

WITNESSES:

Hugh McArdle  
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# UNITED STATES PATENT OFFICE.

JAMES J. McARDLE, OF LINCOLN, RHODE ISLAND.

## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 556,102, dated March 10, 1896.

Application filed December 1, 1894. Serial No. 530,615. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES J. McARDLE, of Lincoln, (Central Falls,) in the county of Providence and State of Rhode Island, have  
5 invented certain new and useful Improvements in Nut-Locks; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part  
10 of this specification.

This invention relates to improvements in devices for locking nuts in position.

The objects of the invention are to improve  
15 and to increase its effectiveness in operation.

The invention consists in such peculiar features of construction and novel combination of parts as may hereinafter be more fully described and pointed out in the claim.

20 Figure 1 represents a front elevation of the improved nut-lock, shown in position on two bolts and engaging the nuts thereof. Fig. 2 represents an edge view of the same. Fig. 3 represents a modified form of the nut-lock.  
25 Fig. 4 represents a view of portions of the improved nut-lock, illustrating further modifications.

Similar numbers and letters of reference designate corresponding parts throughout.

30 In carrying my invention into practice it has been my desire to provide a nut-lock which could be supported on the bolts and furnished with a compound spring-bearing for the side or corner of the nut. To this end I construct  
35 the nut-lock of a resilient metal bar having the vertical bearing portion 1 connected with the laterally-extending members 4 and 4' by the curved portions 2 and 2'. That part of the members between 5 and 6 and between 5'  
40 and 6' is bent to form washers or rings, which are adapted to embrace the bolts and to be secured thereon by the nuts. From 6 and 6' the bar curves alongside of and practically parallel to the members 4 and 4', as at 9 and

9', then describes a curve of more or less completeness, as 10 or 10<sup>a</sup>, and is then bent out to the vertical planes of the nut to form the presser 11 or 11', divided by the loops 12 into two spring-acting portions, both of which may  
45 act on one side of the nut, or the corner of the nut may be engaged between these parts in the bend made at the commencement of the loops 12. The members 4 and 4' being bent at 3 and 3' out of the vertical cross-plane of the bar 1 act as a spring, pressing the loops  
50 from 5 to 6 and 5' to 6' against the inner surfaces of the nuts.

In Figs. 3 and 4 are represented modifications of the loops or bends, as 15, which connect the members 11 or 11' with those portions  
60 marked 9 or 9', in all cases the essential construction being the looped presser having two separated spring-acting portions and connected to the cross members by spring-loops.

The operation of the nut-lock will be readily understood by reference to the drawings,  
65 in which *a* represents the fish-plate of a railway-rail connection, *c c* the bolt-holes therein, and 14 14 the nuts.

Having thus described my invention, I  
70 claim as new and desire to secure by Letters Patent—

A nut-lock, consisting of the central bar 1, the laterally-extending members 4 and 4' bent out of the vertical plane of the bar, the loops  
75 from 5 to 6 and from 5' to 6' to embrace the bolts, the bearing-arms 11 and 11' lying out of the plane of the members 4 and 4' and their loops 5 6 and 5' 6' and connected to said loops by the curves 10 and 10<sup>a</sup> and the portions 9 9',  
80 and the loops 12 formed in the bearing-arms 11 and 11', as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES J. McARDLE.

Witnesses:

PETER J. QUINN,  
LEAH H. ROBERTS.