

No. 756,563.

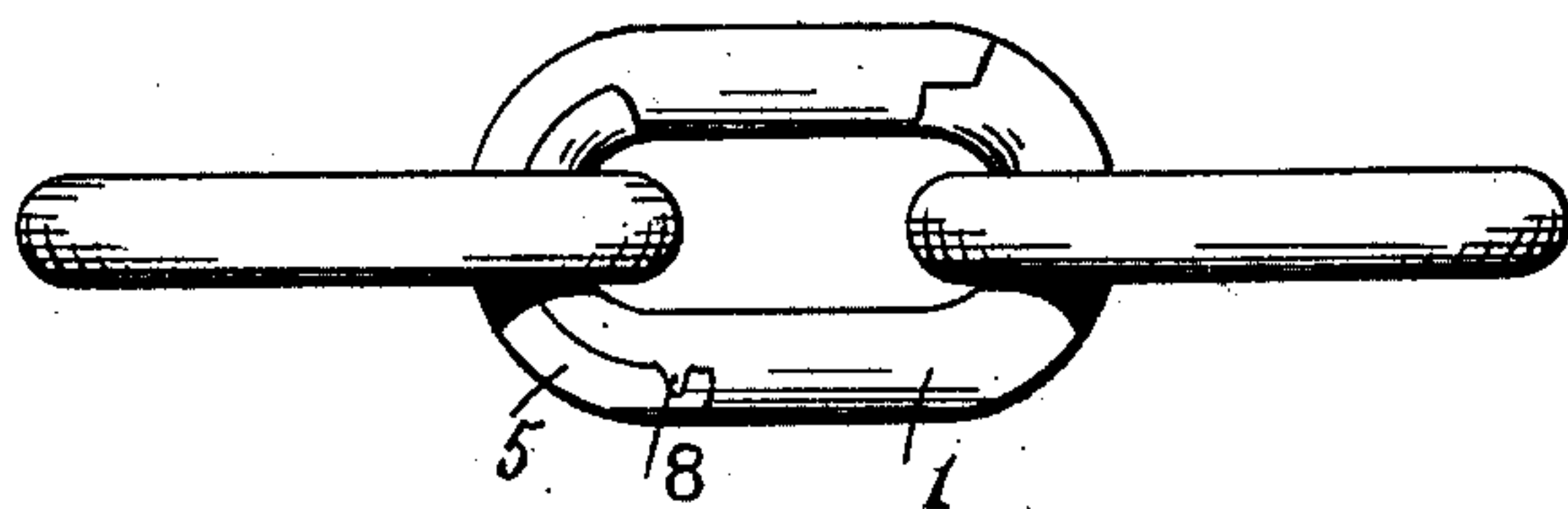
PATENTED APR. 5, 1904.

W. J. BALL & R. COLE.

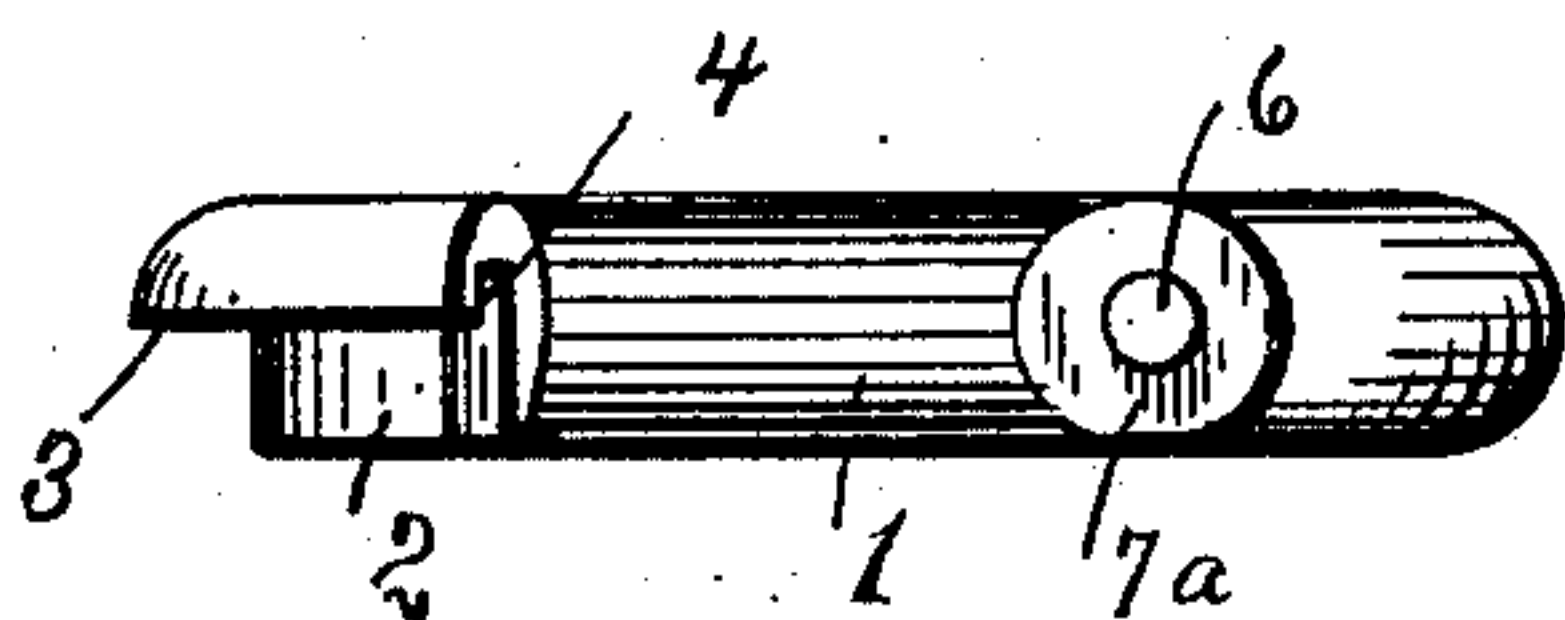
CHAIN LINK.

APPLICATION FILED APR. 27, 1903.

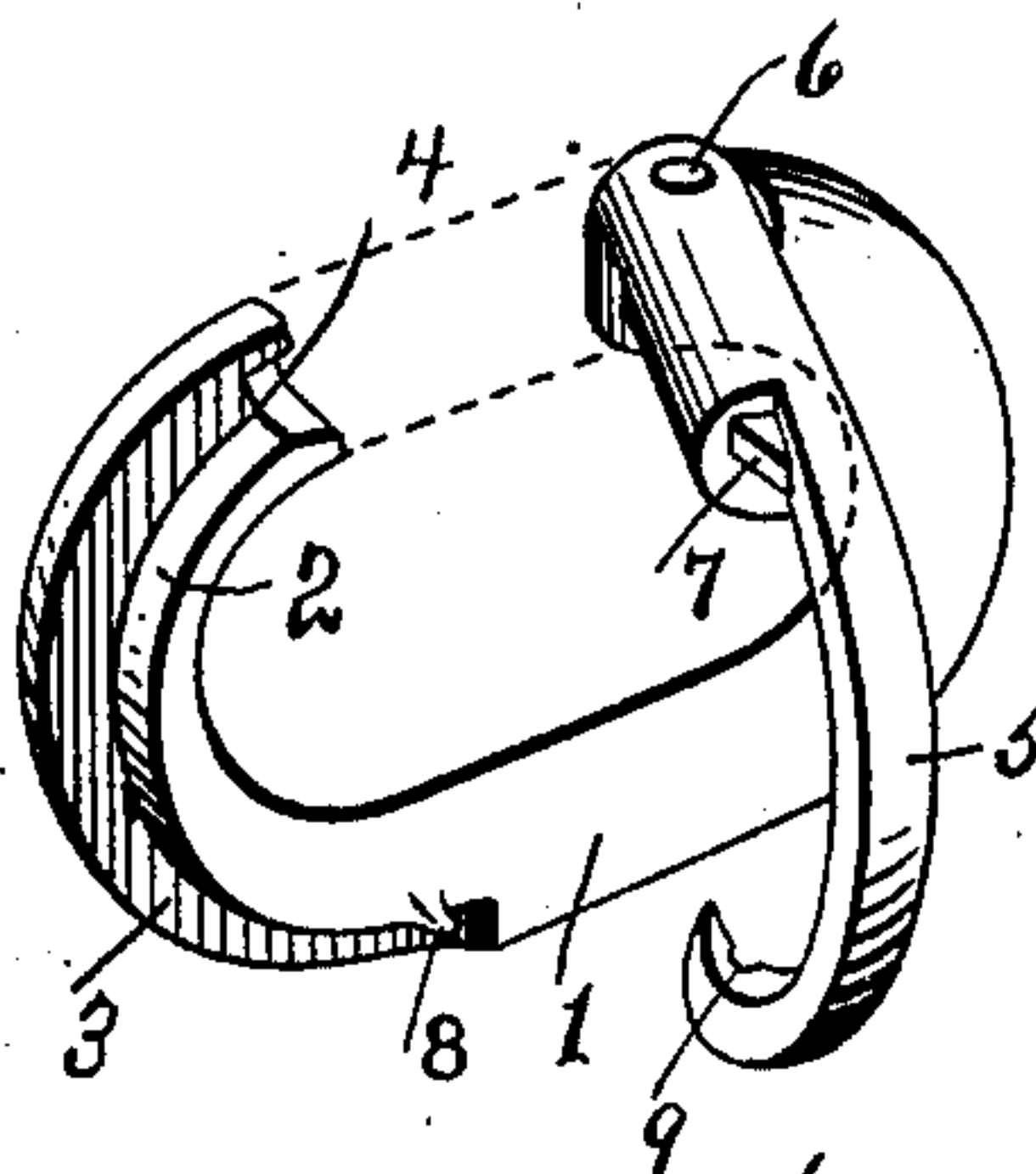
NO MODEL.



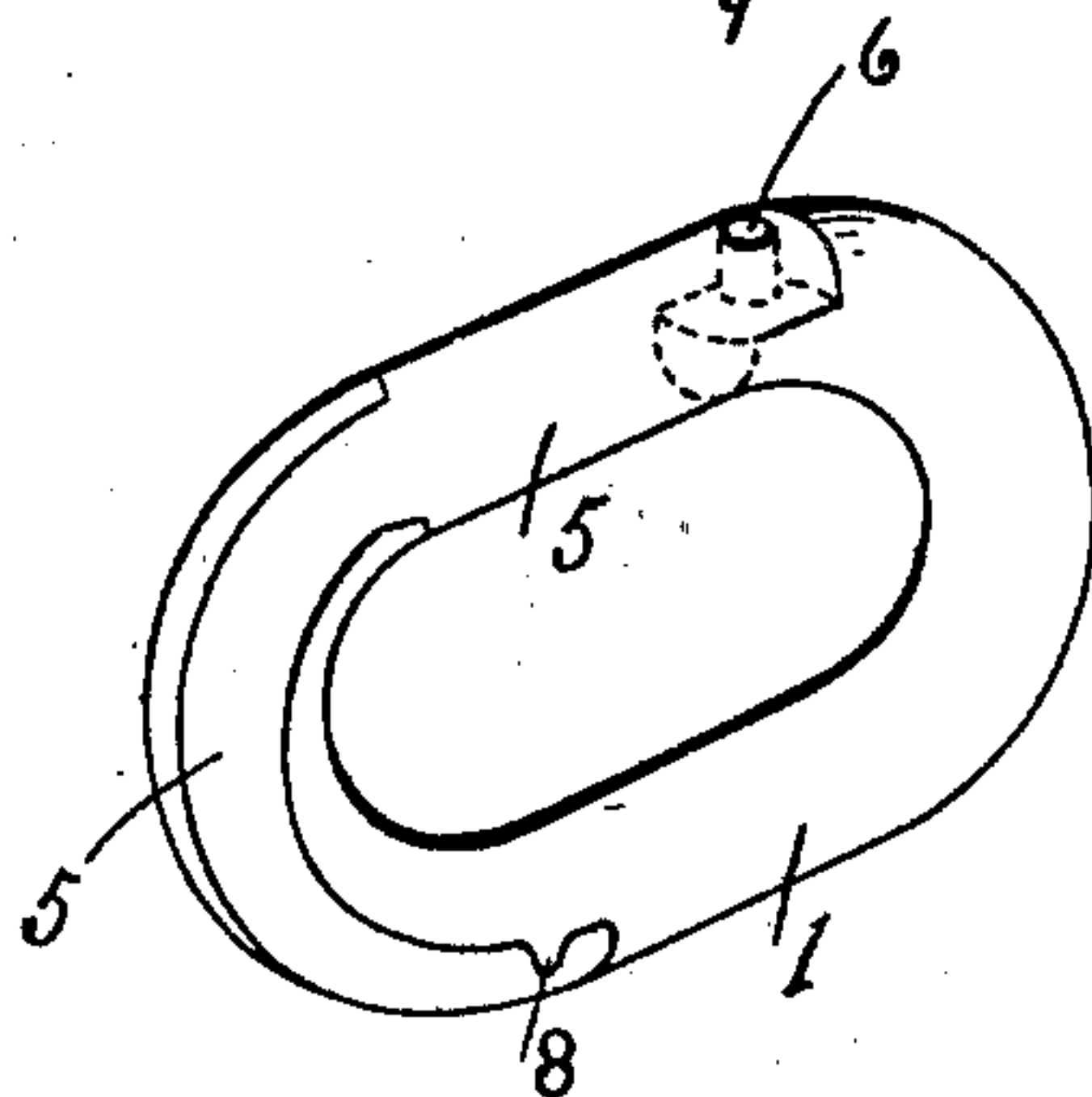
*Fig 1*



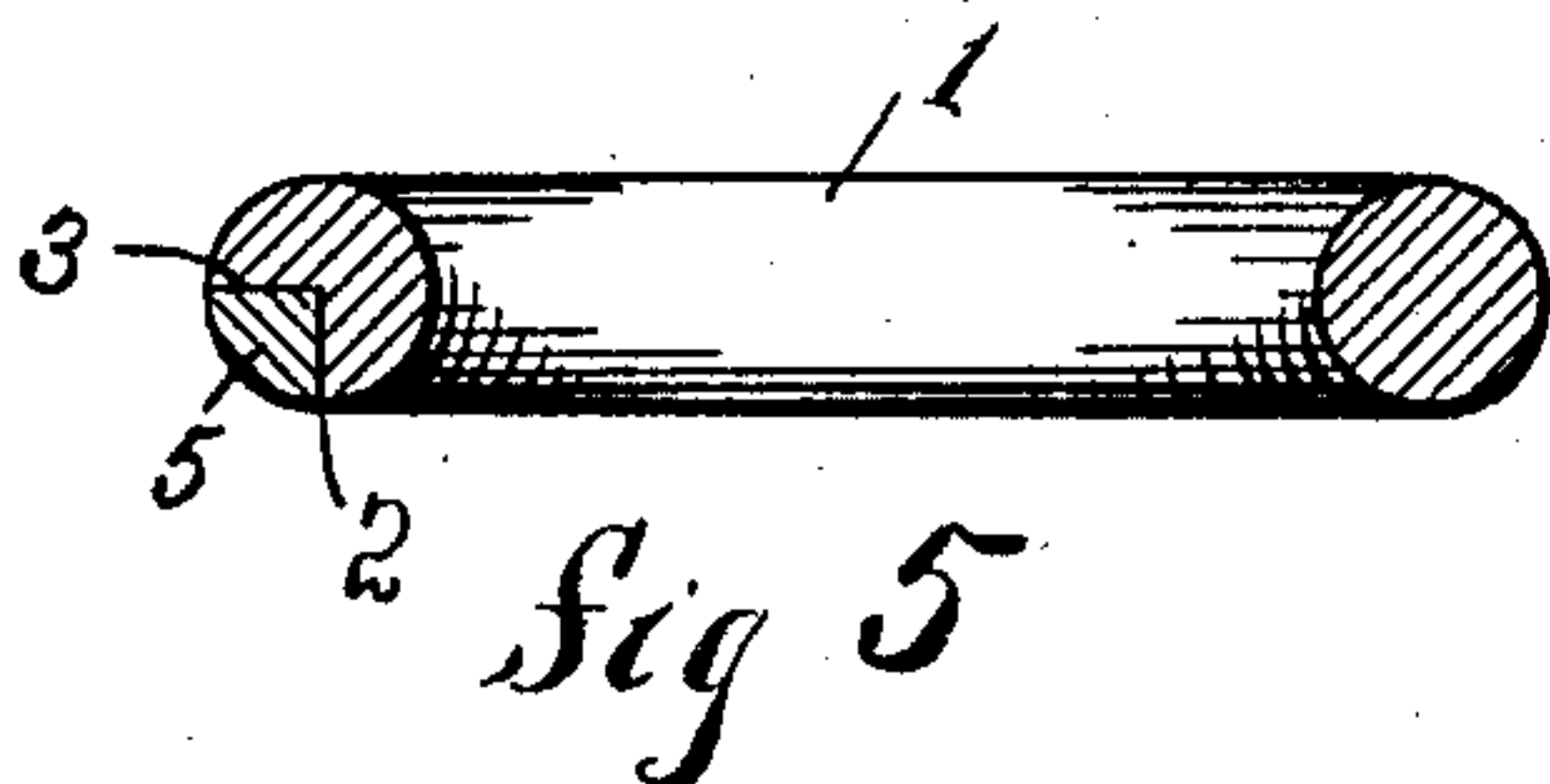
*Fig 2*



*Fig 3*



*Fig 4*



*Fig 5*

Witnesses

*Edward Melin*  
*J. R. Bond*

Inventors

*Walter J. Ball*  
*Richard Cole*  
By *F. W. Bond*  
attorney

# UNITED STATES PATENT OFFICE.

WARREN J. BALL AND RICHARD COLE, OF SALEM, OHIO; SAID BALL  
ASSIGNOR TO SAID COLE.

## CHAIN-LINK.

SPECIFICATION forming part of Letters Patent No. 756,563, dated April 5, 1904.

Application filed April 27, 1903. Serial No. 154,442. (No model.)

*To all whom it may concern:*

Be it known that we, WARREN J. BALL and RICHARD COLE, citizens of the United States, residing at Salem, in the county of Colum-  
5 biana and State of Ohio, have invented certain new and useful Improvements in Chain-Links; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings,  
10 making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a view showing our improved link as applied to a chain. Fig. 2 is a top  
15 view of the body portion of the link. Fig. 3 is a perspective view showing the link open. Fig. 4 is a view showing the link closed and illustrating the pivot-pin in dotted lines. Fig.  
20 5 is a view showing a transverse section of the link and illustrating the lap.

The present invention has relation to chain-links in which the link can be opened for any purpose and closed to produce a link of a chain.

Similar numerals of reference indicate cor-  
25 responding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the body portion of the link, which is substantially of the form shown, and, as shown,  
30 its one end is provided with the flanges 2 and 3, which flanges are located substantially at right angles to each other. The flange 3 is provided at its end with the recess 4, which recess is for the purpose hereinafter described.

To the body 1 is pivotally attached the mem-  
35 ber 5 by means of the pin 6, said pin being seated upon the face or shoulder 7<sup>a</sup>, formed upon the body 1. The portion of the pivoted member 5 designed to lap over the flange  
40 portion of the body is so formed that it will fit the flanges 2 and 3 and at the same time produce a continuous link of uniform size and shape. For the purpose of preventing any  
45 5 accidental springing of the pivoted member 5 when brought in the position illustrated in

Figs. 1 and 4 the pivoted member is provided with the flange 7, which flange enters the recess or groove 4.

In case it is desired to more securely hold the body 4 and the pivoted member 5 in  
50 proper relative position to produce a closed link the lip or tang 8 is provided, which lip or tang is swaged down and upon the outer surface of the pivoted member 5, and for the purpose of causing the lip or tang to be flush  
55 with the outer surface of the pivoted member said pivoted member should be provided with the recess 9 and into which recess the lip or tang is seated, thereby securely uniting the  
60 members together.

It will be understood that by our peculiar arrangement we are enabled to produce an open link for chains that can be easily separated and at the same time produce a link of  
65 proportionate strength, reference being had to the amount of metal employed, or, in other words, the size of the different members in cross-section.

It will be understood that by providing the recess 4 and the flange 7 the pivoted member  
70 5 will not be liable to spring out of position, owing to the fact that said flange is seated in the recess when the pivoted member 5 is brought into its normal position.

Having fully described our invention, what  
75 we claim as new, and desire to secure by Letters Patent, is—

1. In a chain-link, an open body portion, provided with flanges located substantially at right angles to each other, a lip extended from  
80 the side of the body portion, a pivoted portion provided with a recess, adapted to receive the lip, and the body and pivoted portions bent to produce a closed link, substantially as set forth.

2. The combination of an open body portion, having curved ends, one of the curved ends provided with flanges located substan-  
85 tially at right angles to each other and one of the flanges provided with a recess at its end, 90



a portion or part pivoted to the body portion, and its free end curved and adapted to fit against the right-angled flanges of the body portion, a flange located upon the inner face  
5 of the pivoted portion, and adapted to fit the recess in the flange of the body portion, substantially as set forth.

In testimony that we claim the above we

have hereunto subscribed our names in the presence of two witnesses.

WARREN J. BALL.  
RICHARD COLE.

Witnesses:

HOWARD M. BALL,  
O. J. ASTRY.