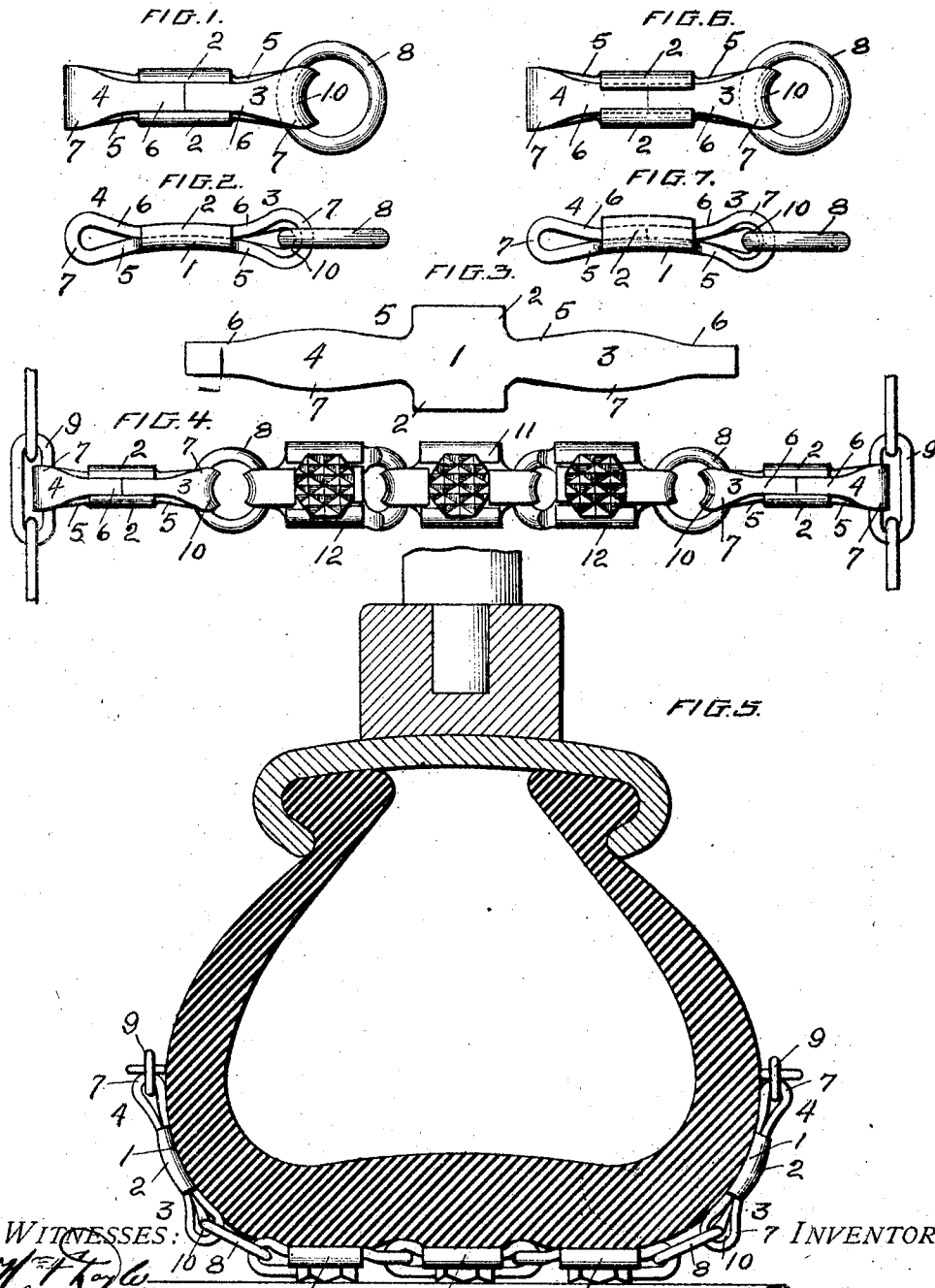


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 CONNECTING DEVICE FOR CROSS CHAINS OF ANTISKID DEVICES.  
 APPLICATION FILED AUG. 20, 1910.

1,002,382.

Patented Sept. 5, 1911.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

FLOYD HENRY FOX, OF NEW YORK, N. Y.

CONNECTING DEVICE FOR CROSS-CHAINS OF ANTISKID DEVICES.

1,002,382.

Specification of Letters Patent.

Patented Sept. 5, 1911.

Application filed August 20, 1910. Serial No. 578,148.

*To all whom it may concern:*

Be it known that I, FLOYD HENRY FOX, a citizen of the United States, residing at New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Connecting Devices for Cross-Chains of Antiskid Devices, of which the following is a description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to connecting devices for connecting the cross chains of antiskid devices to the side chains and has for its object to provide a connecting device which will be strong without unnecessary weight and which will not be distorted or opened in use.

The invention consists in the connecting device hereinafter described and shown and particularly pointed out in the claims.

Referring to the drawings: Figure 1 is a plan view of a connecting device embodying my invention; Fig. 2 is a side view of the same; Fig. 3 is a plan view of the blank from which the connecting device is formed; Fig. 4 is a plan view of a cross chain embodying my invention; Fig. 5 is a cross-sectional view of a tire having the chain shown in Fig. 4 applied to it, and Figs. 6 and 7 are respectively a plan and side view of a modification.

In the drawings, the blank from which the connecting device as shown in Fig. 6 is formed consists of a central portion 1 having side wings 2, 2 and tongues 3 and 4. The tongues 3 and 4 are narrowed at 5 near the central portion 1 and also at 6 near their ends and about midway of their length are widened at 7.

When in use the tongues 3 and 4 are bent at the widened portion 7 to engage the ring 8 of the cross chain and a link of the side chain 9 respectively. By reason of these widened portions 3 and 4 the device is strengthened at the points of greatest wear while by reducing the width at 5 and 6 unnecessary weight is avoided without loss of strength.

The widened portion 7 of the tongue 3 at the point at which it bears against the interior of the ring 8 is formed on a center as shown at 10 so as to give a long bearing

on the ring and to facilitate the lateral flexing of the chain.

Then ends of the tongues 3 and 4 are bent downward into contact with the central portion of the device preferably meeting at the center, though it is not essential to have them meet, and the wings 2, 2 are bent upward against the edges of the end portions as shown in Figs. 1 and 2 or may be bent over the end portions as shown in Figs. 6 and 7.

The completed connecting device is arched on its under side the center portion being higher than the end loops as shown in Figs. 2 and 7 so as to fit the curve of the tire as shown in Fig 5.

The upturned wings 2, 2, effectually hold the ends of the tongues against any twisting of these ends and where the wings are also turned down onto the ends of the tongues they prevent the loops from opening.

The connecting device above described may be used with cross chains having center and side links of any desired construction so long as it is provided with a suitable ring or eye for the tongue 3 to engage. I have shown in Figs. 4 and 5 a complete chain having center link 11 and side links 12, 12 of an especially desirable construction, but I do not herein claim the construction of center and side links shown as that forms the subject matter of a separate application for patent filed August 20, 1910, Serial No. 578,147.

Having thus described my invention, what I claim is:

1. A connecting device for chains comprising a central portion having side wings and tongues extending from the central portion bent into loops and having their ends resting against the central portion, the side wings being bent upward to bear against the sides of the ends of the tongues.

2. A connecting device for chains comprising a central portion having side wings and tongues extending from the central portion bent into loops with their ends resting against the central portion the side wings being bent upward against the sides of the ends of the tongues and over into their faces.

3. A connecting device for chains comprising a central portion having upwardly

bent side wings, and tongues extending from  
the central portion bent into loops with their  
ends resting against the central portion be-  
tween the upwardly bent side wings, the  
5 portions of the tongues at the bend of the  
loop being wider than at other portions of  
their length.

This specification signed and witnessed  
this 19th day of August A. D. 1910.

FLOYD HENRY FOX.

In the presence of—

CLARENCE A. BENEDICT,  
GUSTAVE MORRIS.