

March 15, 1927.

1,620,894

W. H. JONES

TIRE CHAIN CATCH

Filed June 30, 1926

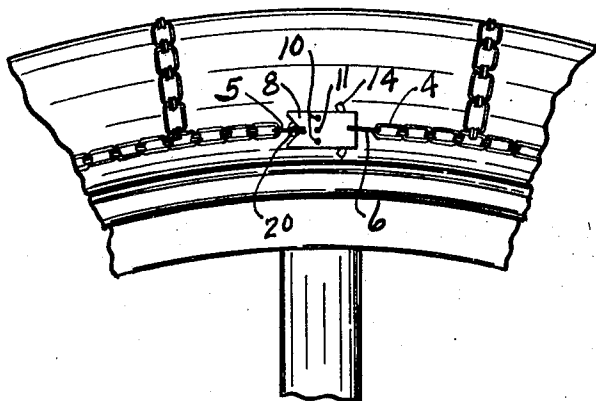


FIG. 1.

FIG. 2.

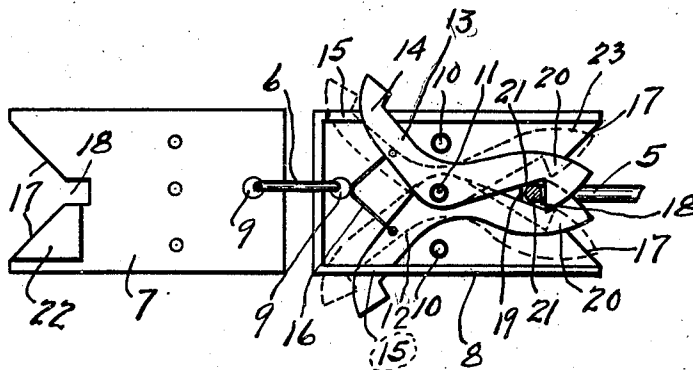
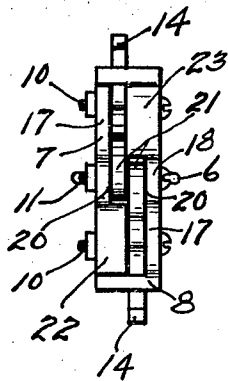


FIG. 3.

Inventor

William Harold Jones.

By

Adam E. Fisher.

Attorney

P.S.

UNITED STATES PATENT OFFICE.

WILLIAM HAROLD JONES, OF UTICA, NEW YORK.

TIRE-CHAIN CATCH.

Application filed June 30, 1926. Serial No. 119,562.

My invention relates to a readily attachable and detachable catch or coupling capable of general application but particularly desirable for use on non-skid chains of automobile tire armor, in view of its ease of attachment and detachment and its adaptability for repair.

A prime object is to provide a catch of this nature having two lock levers provided with inclined receiving walls which are movable to a position flush with the inclined receiving walls of the casing to facilitate engagement with the chain or other article as will be hereinafter particularly pointed out.

Additional objects and advantages will also be pointed out hereinafter.

In the accompanying drawings illustrating one preferred embodiment—

Figure 1 is a fragmentary side elevation of a tired wheel and non-skid chain having my improvement associated therewith.

Figure 2 is an end view;

Figure 3 is a view looking into the interior and with the cover plate of the casing in an open position.

Referring to said drawings, a non-skid chain is suggested in Figure 1 of which the terminal links are designated 4 and 5 and the former of which is linked to a ring 6.

A casing is provided for the working parts of the catch or coupling, preferably being made in two parts, namely, a box section 7 and a cover section 8, pivotally secured thereto by the said ring 6 which passes through openings 9 therein. A plurality of removable bolts 10 and 11 may secure the sections 7 and 8 together.

Arcuate lock levers 12 and 13 are pivotally mounted on the bolt 11 and have releasing arms 14 extending through openings or slots 15 in the sides of the casing. Each lever rests on top of the other and for this reason the said slots 15 are disaligned. To urge the levers outward at the arms 14, a spring 16 is employed which is fastened to the said arms 14 as shown in Figure 3.

The end walls of the sections 7 and 8 at the entrance are beveled at 17 toward a central pocket 18. Arms are provided on the levers at 19 which terminate in hooks

to overlap an article in the pocket 18. These hooks are designated 20 and have substantially flat or inclined walls 21 to receive the ring 5 and which project beyond the walls 17 as shown in Figure 3. One of the hooks is urged against a block 22 on the section 7 while the other hook is urged against a block 23 on section 8.

In use the article is connected to the chain by the ring 6. To attach the chain against displacement on the tire, the link 5 is passed between the walls 21, spreading the walls apart and usually pressing one of the walls 21 flush with one of the walls 7, which serves as an abutment so that further pressure will move the other wall away and enable the link to clip into the pocket 18 overlapped by the hooks. To release said link 5, it is merely necessary to press the arms 14 inwardly, as the hooks will then separate and permit ready withdrawal of the link 6.

While I have herein described a certain specific manner and method of constructing and assembling the elements of my invention, it is understood that I may vary from the same in minor details, not departing from the spirit of my invention, so as best to construct a practical device for the purpose intended, as defined in the appended claim.

I claim:

A connecting device having a casing composed of first and second sections, a bolt connecting said sections, levers pivoted to said bolt, said casing having slots in its side walls, a spring adapted to urge one end of each of the said levers to project through the said slots, each lever having a hook at its other end, blocks positioned within the casing alongside the said hooks, inclined walls provided on said blocks; each block alongside the one hook being adapted to engage the other hook, whereby the said blocks are adapted to form a pocket with inclined walls at one end leading to said pocket, and said levers having substantially inclined and normally separated walls extending beyond the said inclined walls for the purpose specified.

In testimony whereof I affix my signature.
WILLIAM HAROLD JONES.