

H. C. QUESENBERRY.
 RAIL GRIPPING ATTACHMENT FOR JACKS.
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1,148,856.

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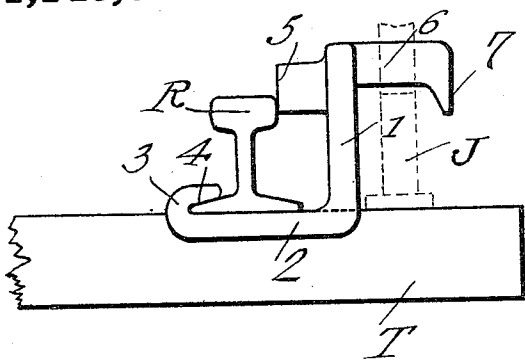


Fig. 1.

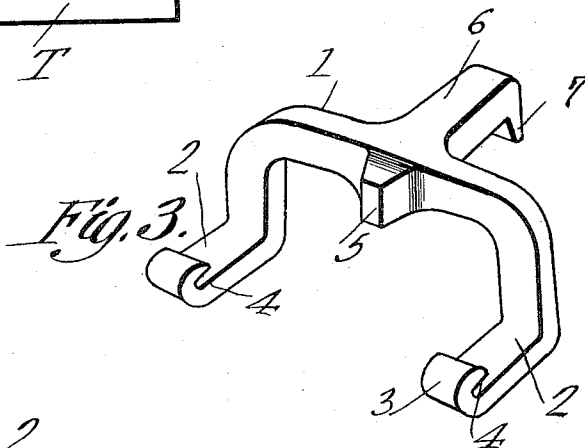


Fig. 3.

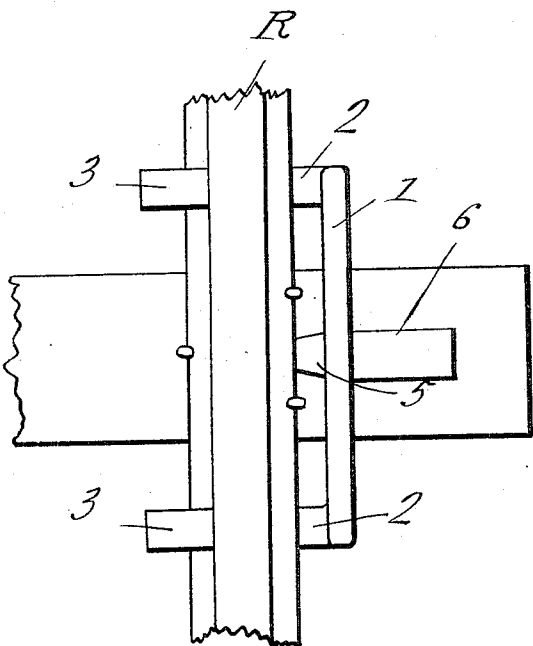


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY C. QUESENBERRY, OF DELTON, VIRGINIA.

RAIL-GRIPPING ATTACHMENT FOR JACKS.

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Specification of Letters Patent.

Patented Aug. 3, 1915.

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To all whom it may concern:

Be it known that I, HENRY C. QUESENBERRY, a citizen of the United States, residing at Delton, in the county of Pulaski and State of Virginia, have invented a new and useful Rail-Gripping Attachment for Jacks, of which the following is a specification.

This invention relates to a rail gripping attachment for lifting jacks.

When it is desired to raise a rail secured to ties on a bridge structure, it has heretofore been necessary to use a pinch bar for this purpose, such use involving considerable time and labor.

One of the objects of the present invention is to provide a novel form of rail gripping device which, when placed in engagement with a rail, will permit the use of an ordinary lifting jack which, when placed on a tie, can be used to elevate the rail from the tie.

A further object is to provide a gripping device of this character which is simple and durable in construction and can be easily placed in and removed from position on a rail.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is an end elevation of the device in position on a rail, a jack being indicated by dotted lines. Fig. 2 is a plan view of the structure shown in Fig. 1. Fig. 3 is a perspective view of the gripping device.

Referring to the figures by characters of reference 1 designates a yoke provided, at each end, with an arm 2 extending at right angles therefrom, the two arms being parallel and adapted to extend under a rail R. The free end of each arm is provided with

a head 3 which is undercut as at 4 so as to receive one of the base flanges of the rail R.

Extending from the middle portion of the yoke 1 is a stud 5 adapted to bear against one side of the head of the rail, while extending in the opposite direction from the middle portion of the yoke is an arm 6 provided with a depending lug 7 at its free end.

In using the device herein described, the arms 2 are placed under the rail R at opposite sides of the tie T and are then raised and shifted so as to bring the inner base flange of the rail R in engagement with the heads 3. Yoke 1 is then swung upwardly toward the rail so as to bring the stud 5 against the outer side of the head of the rail R. While the parts are thus positioned a jack indicated generally at J, is inserted between the tie T and the arm 6 and by operating the jack it will be apparent that the arm 6 and yoke 1 will be pushed upwardly, thus lifting the rail off of the tie T. During this lifting operation, the stud 5 will press tightly against the side of the head of the rail, while the heads 3 will pull tightly against the inner base flange of the rail.

By means of a device such as described, it is possible to mount the entire lifting mechanism upon a single tie, the yoke 1 straddling the tie, while the jack J rests upon said tie. Thus the device is especially useful upon bridges and like structures.

The depending lug 7 constitutes means for preventing the jack from slipping laterally from under the arm 6.

What is claimed is:—

1. A rail gripping attachment for lifting jacks, including a yoke adapted to straddle a tie, arms extending from one side of the yoke for extending under a rail, means on the arms for engaging the base flange at one side of the rail, means on the yoke for engaging the head of the rail at the other side thereof, and a jack engaging arm extending from the yoke.

2. A rail gripping attachment for lifting jacks, including a yoke adapted to straddle a tie, arms extending therefrom and adapted to project under a rail at opposite sides of the tie, rail engaging heads upon the arms

for engaging the base flange at one side of
the rail, means on the yoke for engaging
the head of the rail at the other side thereof,
an arm extending from the yoke at that side
5 remote from the rail engaging means, and a
jack retaining lug upon the arm.
In testimony that I claim the foregoing as

my own, I have hereto affixed my signature
in the presence of two witnesses.

HENRY C. QUESENBERRY.

Witnesses:

J. M. NUNN,

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
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