

J. NEUMAIER.
WHEEL PULLER.
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1,258,699.

Patented Mar. 12, 1918.

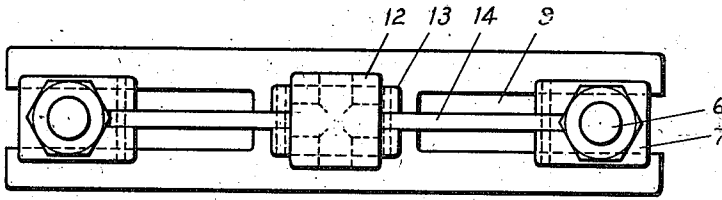


Fig. 1. 10

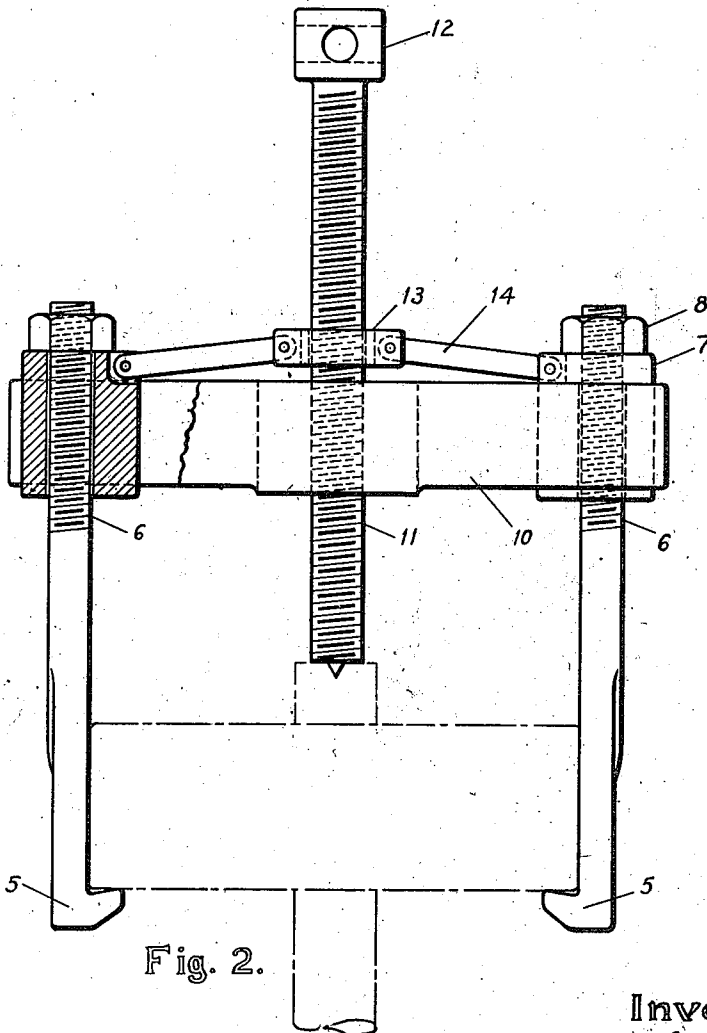


Fig. 2.

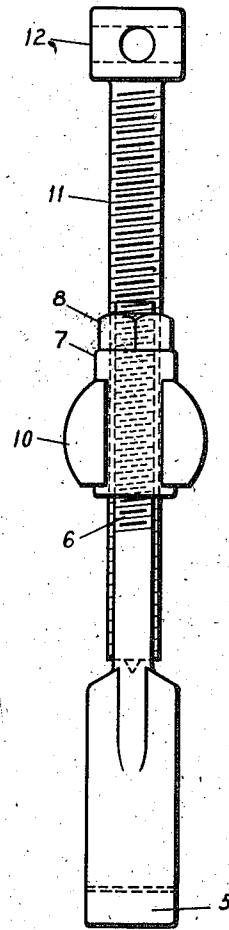


Fig. 3.

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WHEEL-PULLER.

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To all whom it may concern:

Be it known that I, JOHN NEUMAIER, a subject of the German Emperor, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Wheel-Pullers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a device for removing a gear-wheel, pulley or other part from a shaft on which it is mounted.

In devices for the purpose in question it is common to employ a screw, operating through a yoke and adapted to engage the end of a shaft, while two hook-shaped members, attached to the end of the yoke, engage the rim of the wheel or part which is to be pulled from the shaft. In such an arrangement, where intended for use upon wheels of different diameters, it is necessary to provide for adjustment of the hooks toward and from each other.

The object of the present invention is to produce a wheel-puller, of the type in question, in which simple and convenient means are provided for adjusting the hooks toward and from each other, and by which, in particular, the hooks are maintained always at equal distances from the screw, so as to engage evenly the rim of the wheel which is to be pulled, and thus to prevent any unequal action upon the wheel which might tend to distort or cramp it.

To the foregoing end the invention resides in the construction and arrangement of parts hereinafter described, as it is defined in the appended claims.

In the accompanying drawings Figure 1 is an end-elevation of a wheel-puller embodying the present invention, and Figs. 2 and 3 are side-elevations of the same.

The invention is illustrated as embodied in a wheel-puller having the usual hook-shaped members 5. The shanks 6 of the hooks pass through perforations in two slide-blocks 7, and are threaded to receive nuts 8 which rest against the slide-blocks. The blocks 7 are arranged to slide toward

and from each other in slots 9 extending inwardly from the ends of the yoke 10. The screw 11, by which the force is applied to draw the wheel from the shaft, is threaded through a central perforation in the yoke, and is adapted to engage the end of the shaft, as shown in dot-and-dash line in Fig. 2. The screw is provided, at its outer end, with a squared and perforated head 12, which is adapted to be turned by a wrench or other suitable tool.

The invention resides particularly in the means employed for controlling the position of the slide-blocks 7 in the slots 9. For this purpose a sliding member 13 is mounted loosely upon the screw 11, this member having a smooth perforation to receive the screw. Each of the blocks 7 is connected with the sliding member 13 by a link 14, and since these links are of equal length, it results that whatever the position of the sliding member 13 upon the screw, the two blocks 7 will necessarily be held at equal distances from the screw. Accordingly, the hooks 5 may be moved toward or from each other by sliding the member 13 along the screw, while at the same time the hooks are held accurately concentric with the screw regardless of such adjustment.

The invention is not limited to the embodiment thereof hereinbefore described and illustrated in the accompanying drawings, but it may be embodied in various other forms within the nature of the invention as it is defined in the following claims.

The invention claimed is:

1. A wheel-puller having, in combination, a screw; a yoke in which the screw is mounted; slides movable toward and from each other on the yoke; hooks mounted on the slides; and means for centering the slides with respect to the screw in all positions of the slides.

2. A wheel-puller having, in combination, a screw; a yoke in which the screw is mounted; slides movable toward and from each other on the yoke; hooks mounted on the slides; and means for moving the slides simultaneously and centering them with respect to the screw.

3. A wheel-puller having, in combination

a screw; a plurality of hooks; a yoke connecting the screw and the hooks; and means, for moving the hooks relatively to the yoke, comprising a slide-member loosely guided
5 on the screw, and links connecting said member with the several hooks.

4. A wheel-puller having, in combination,

a screw; a yoke in which the screw is mounted; slides movable toward and from each other on the yoke; hooks mounted on the 10 slides; a slide-member guided loosely on the screw; and links connecting said member with said slides, respectively.

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