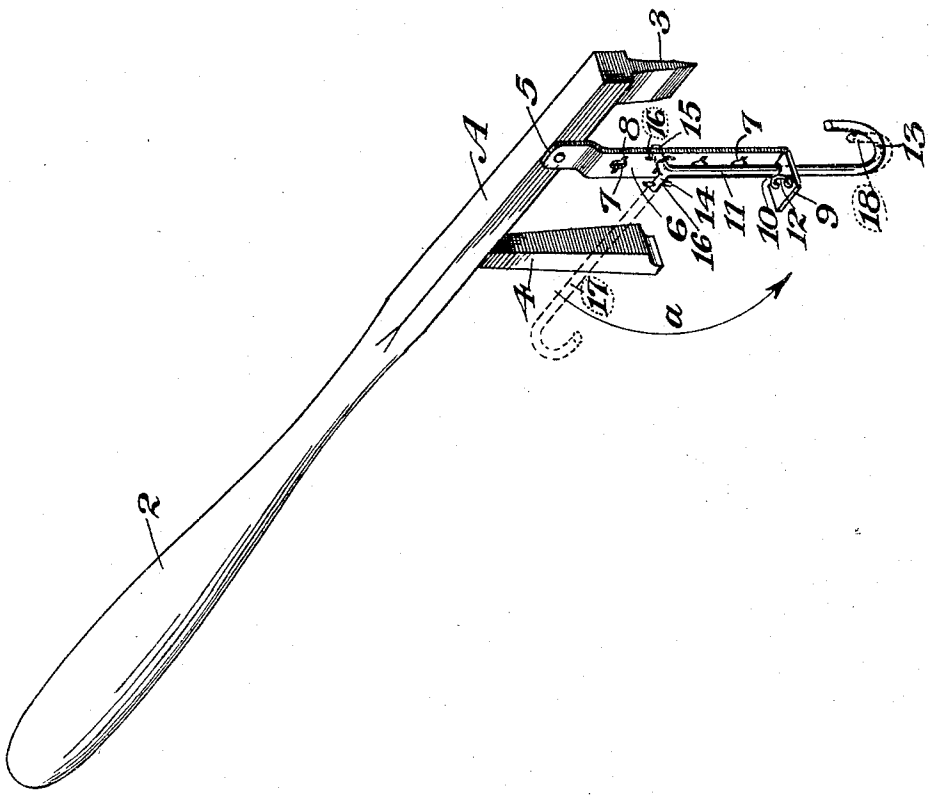
D. P. CAMPBELL.

TIRE TOOL.

APPLICATION FILED SEPT. 20, 1915.

1,199,344. Patented Sept. 26, 1916.



WITNESSES:

L. J. Forde.

Anna Hoisholt.

INVENTOR

Dennis P. Campbell.

BY Strong & Townsend

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DENNIS P. CAMPBELL, OF SAN FRANCISCO, CALIFORNIA.

TIRE-TOOL.

1,199,344. Specification of Letters Patent. Patented Sept. 26, 1916.

Application filed September 20, 1915. Serial No. 51,610.

To all whom it may concern:

Be it known that I, DENNIS P. CAMPBELL, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented new and useful Improvements in Tire-Tools, of which the following is a specification.

This invention relates to a tire tool.

The object of the present invention, is to provide a simple, substantial, cheaply manufactured tire tool, which is particularly constructed for assisting the removal or application of casings, rims, locking rings, etc., either on quick detachable or demountable wheels. Further objects will hereinafter appear.

The invention consists of the parts and the construction and combination of parts, as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which the figure is a perspective view of the tool.

Referring to the drawings in detail, A indicates a lever, one end of which is shaped to form a handle 2. Secured to or formed integral with the other end of the lever, is a downwardly extending wedge-shaped projection 3, and similarly secured or formed integral with the lever, is a right angularly disposed pry or foot extension 4. Pivotally attached, as at 5, to the lever, approximately intermediate of the wedge-shaped projection 3, and foot extension 4, is a link 6; this link is provided with a plurality of alined perforations 7, which are slotted, as at 8, for purposes hereinafter to be described. The lower end of the link is provided with a right angularly disposed flange 9, which is slotted, as at 10, to permit the insertion of a rod 11, which is held in the slot by a latch spring 12, the lower end of the rod is bent to form a hook 13, while the upper end of the rod is provided with two angular extensions 14 and 15, which are disposed at right angles with relation to each other. One of these extensions, is inserted through one of the projections 7, and is secured therein when inserted by a pin 16. The provision of the extensions 14 and 15, together with the alined perforations 7 in the links, permits the rod and hook to be raised and lowered in the links, or in other words, permits adjustment of the hook with relation to the pivot point 5. The rod and hook is attached to the link, by first turning the same into the dotted line position, indicated at 17; pin 16 will, in this position, be in alinement with slots 8 and permit extension 15 to be inserted into the desired perforation 7. The hook is then swung down in the direction of arrow *a* until it enters the slot 10, where it is secured by the latch spring 12. With extension 15 inserted into a perforation, the hook will assume the position, indicated by the full lines; with extension 14 inserted, the hook will assume the position, indicated by the dotted lines at 18. The positioning or turning of the hook in one direction to another, permits this to assume various positions, when using the tool, as will hereinafter be described.

The tool is particularly constructed for removing or applying tire casings, rims, locking rings, etc., on quick detachable or demountable wheels, and may also be used for other purposes. The wedge-shaped projection 3 is particularly handy for prying or removing the locking rings and also for separating or returning to position split rims, while the hook and foot extension 4 is provided for the purpose of either removing or replacing rims and tires, or for the purpose of prying loose tires or casings, that have become more or less cemented to the rims.

The materials and finish of the several parts of the device are such as the judgment and experience of the manufacturer may dictate.

I wish it understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims, and that I do not wish to limit myself to the specific design and construction here shown.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. A tire tool including a lever having a lateral extension, a link pivoted at one end to the lever and formed with a series of perforations intersected by slots, the other end of the link being turned outwardly at right angles and formed with a slot that extends through the inner side of said right angular end, a rod engaged between its ends in said slot, a spring latch on said right angular end of the link for holding the rod in said slot, said rod having a hook-shaped lower end and having two angularly related extensions at its upper end, and a pin secured to each of said extensions, said extensions

being each receivable in said link perforations and the pins thereof being movable through the link slots when alined with the latter.

2. A tire tool including a lever having a lateral extension, a perforated link secured to the lever and having a lateral slotted foot, a rod having a projection received in one of the link perforations and being movable into and out of the slot of the link foot, said rod having a hook at its free end and beyond the foot, and means to releasably retain the rod in the slot of the foot.

3. In combination with a lever having a foot extension, a link connected to the lever, a hook shaped rod, means to connect the rod to the link and to permit of their disconnection by moving said parts into a predetermined position, and separate means to releasably connect the rod to said link to permit the rod to be moved to said predetermined position to allow disconnection of the rod and link.

4. In combination with a lever having a foot extension, a link connected to the lever and having a series of perforations, a hook bearing rod having a pair of angularly related projections each of which is receivable in any one of the link perforations, means to prevent said projections from being disengaged from the link and means to releasably lock the rod to said link.

5. In combination with a lever having a foot extension, a perforated link connected to the lever, a hook shaped rod having a projection engaged in one of the link perforations, and means to lock the rod to the link to prevent movement of the link and rod.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

DENNIS P. CAMPBELL.

Witnesses:
FRED J. STONE,
F. J. FERNHOFF.

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