

No. 706,583.

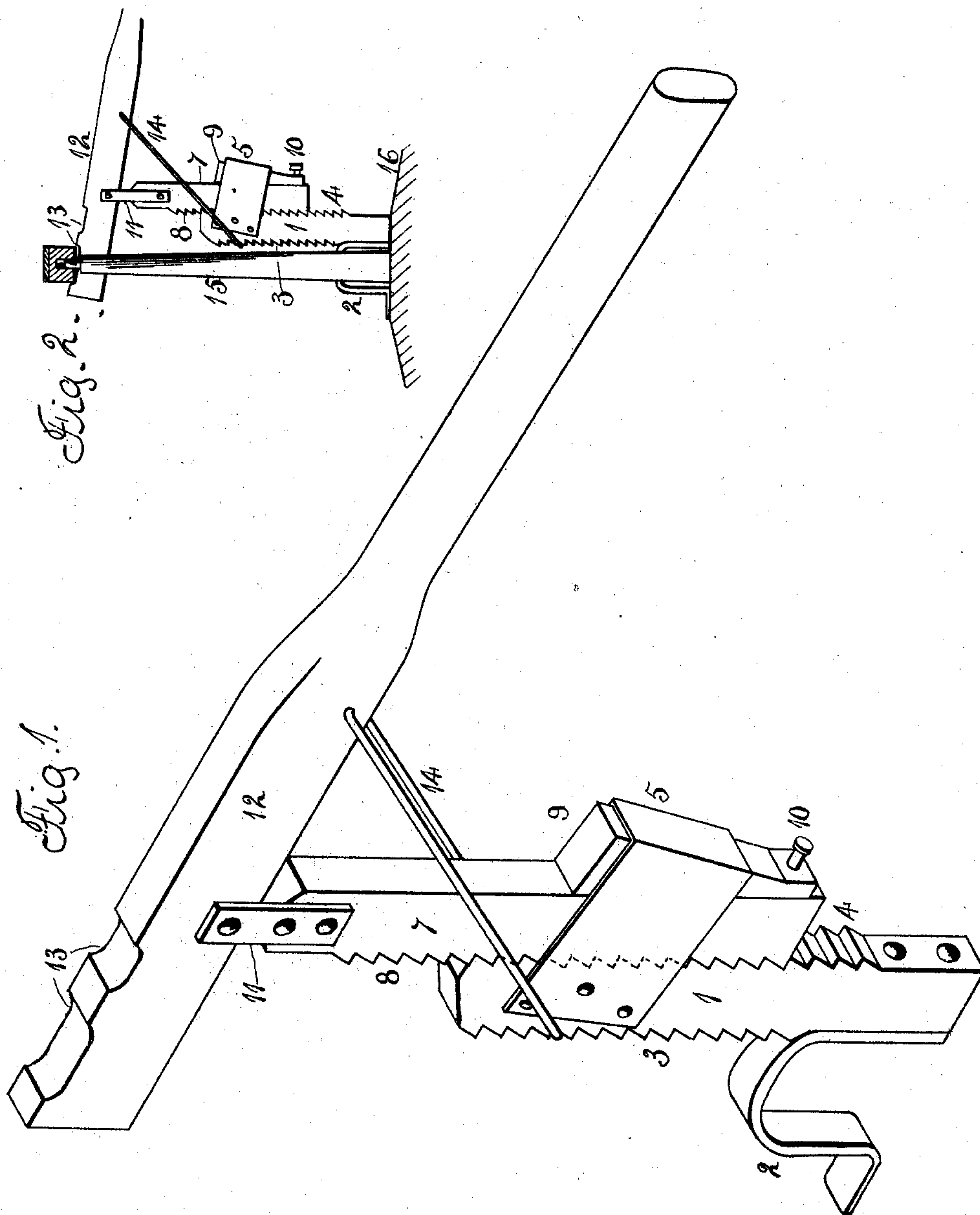
Patented Aug. 12, 1902.

F. W. MITCHELL.

TIRE SETTER.

(Application filed Apr. 14, 1902.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANK W. MITCHELL, OF LEAF RIVER, ILLINOIS.

TIRE-SETTER.

SPECIFICATION forming part of Letters Patent No. 706,583, dated August 12, 1902.

Application filed April 14, 1902. Serial No. 102,809. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. MITCHELL, a citizen of the United States, residing at Leaf River, in the county of Ogle and State of Illinois, have invented certain new and useful Improvements in Tire-Setters, of which the following is a specification.

This invention relates to improvements in tire-setters in which the felly is raised and a washer placed around the tenon of the spoke inside of the felly.

In the accompanying drawings, Figure 1 is an isometrical representation of my improved tire-setter. Fig. 2 is a side elevation of the tire-setter, showing its application to a wheel.

The main vertical support 1 has a foot 2 connected to its lower end. The foot is in arch form. The edge of the main support, to which the foot 2 is secured, has a series of teeth 3, and the other edge of the support has teeth 4. To the main support is secured a loop 5, set diagonally, and an adjustable support 7 is guided by the loop against sidewise movement and permitting its upward movement. One edge of this adjustable section has teeth 8. A wedge-shaped block 9 is placed within the loop and bears against the adjustable section 7 and serves to hold the teeth of the adjustable section in engagement with the teeth 4 of the main section 1. A pin 10, located in the lower end of the wedge, prevents it from falling out of the loop. By raising the wedge the adjustable section may be separated from the main section sufficiently to allow the teeth to become disengaged, when the adjustable section can be moved bodily either up or down, and when properly adjusted the wedge will hold the parts together in a firm manner. To the upper end of the adjustable support are secured straps 11, to the upper ends of which is pivoted a lever 12. This lever has a series of notches 13 in its upper surface, and to the lever is pivoted a bail 14, its free end engaging the teeth 3 of the main support.

In Fig. 2 is shown the application of my improved tire-setter to a wheel. The foot 2 is placed between the spokes 15 of the wheel

and the lower end of the main support, and the foot-rest on the hub 16 on opposite sides of the spokes. The short end of the lever is placed under the felly of the wheel, and by pressing down on the long end of the lever the felly will be raised free of the spoke, so that a washer can be placed around the tenon of the spoke. The bail 14 will engage the teeth of the main section and hold the lever in its various positions.

I claim as my invention—

1. In a tire-setter, the combination of a main section having teeth on both edges, an adjustable section having teeth engaging the teeth of one of the edges of the main section, a loop secured to the main section encircling the adjustable section, a wedge located in the loop and resting against the adjustable section, a lever having a pivotal connection with the adjustable section, and a bail pivotally connected to the lever and engaging the teeth on one edge of the main section.

2. In a tire-setter, the combination of a main section having teeth on both edges, an adjustable section having teeth engaging the teeth on one of the edges of the main section, a loop secured to the main section encircling the adjustable section, a wedge located in the loop and resting against the adjustable section, a lever having a pivotal connection with the adjustable section, a bail pivotally connected to the lever and engaging the teeth on one edge of the main section, and a foot connected to the lower end of the main section.

3. In a tire-setter, the combination of a main section having teeth, an adjustable section having teeth engaging the teeth of the main section, a loop secured to one of the sections and encircling the other section, a wedge located in the loop, a lever having a pivotal connection with the adjustable section, and a bail forming a connection between the lever and one of the sections.

FRANK W. MITCHELL.

Witnesses:

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