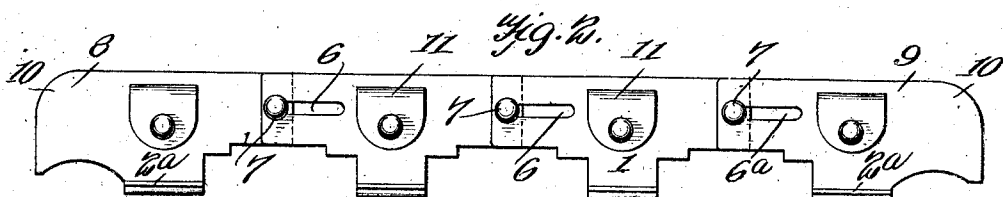
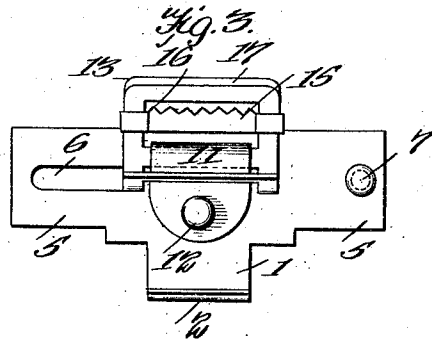
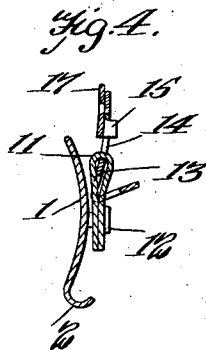
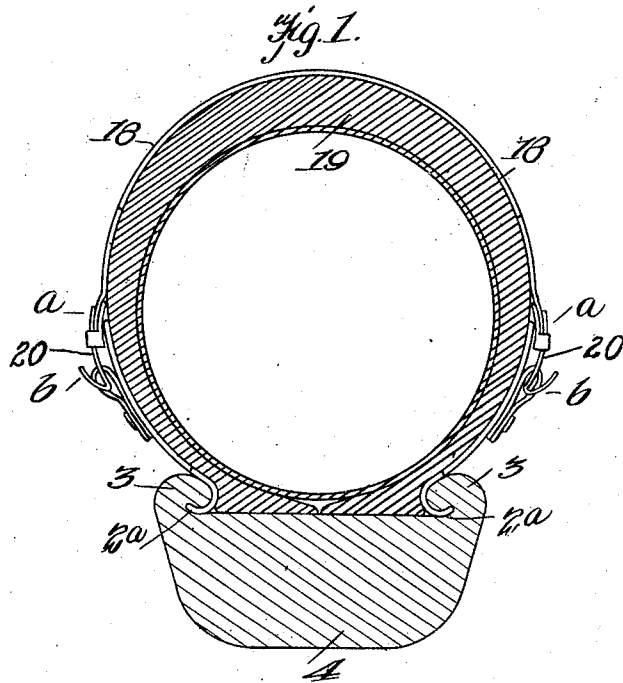


W. D. GILBERT.
 BOOT HOLDER.
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1,038,344.

Patented Sept. 10, 1912.



WITNESSES
 E. M. Callaghan
 C. E. Trautman

INVENTOR
 WEBSTER D. GILBERT,
 BY *Wm. & Co.*

ATTORNEYS

UNITED STATES PATENT OFFICE.

WEBSTER D. GILBERT, OF JOHNSTOWN, NEW YORK.

BOOT-HOLDER.

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To all whom it may concern:

Be it known that I, WEBSTER D. GILBERT, a citizen of the United States, and a resident of Johnstown, in the county of Fulton and State of New York, have invented a new and useful Improvement in Boot-Holders, of which the following is a specification.

My invention is an improvement in boot holders, and has for its object the provision of a simple inexpensive device of the character specified, for holding a boot in place over a puncture or the like in a pneumatic tire, which will hold the boot firmly and tightly throughout its length, and which may be easily applied and detached.

In the drawings:—Figure 1 is a cross section of a tire with the boot holder in place; Fig. 2 is a side view of the holder; Fig. 3 is a similar view of one section or unit of the holder; and Fig. 4 is a transverse section of a section.

The present embodiment of the invention comprises a holder for each side of the tire, having means for engaging the rim, and also having means for engaging the boot. The holder is composed of two similar sections, and each section is composed of two end links or units, and a plurality of intermediate links or units. Each link or unit 1 is approximately T-shaped, and the stem of the T is provided with a hook 2, for engaging the rib 3 of the rim 4 of the wheel. In the intermediate units, each arm of the T is reduced at its outer end on the edge adjacent to the stem, as shown at 5, and one of the arms is slotted longitudinally at 6, and the other arm is provided with a headed stud 7, for engaging the slot of the adjacent unit. The pin and slot connection permits movement of the sections toward and from each other, within the limits of the slot 6. The end units differ from the intermediate units only at their outer ends. Since the said units do not engage another unit at their outer ends, the slot is omitted in one, and the pin in the other. Each of the said units 8 and 9 has the stem portion provided with a hook 2^a, similar to the hook 2 of the other units, and each of the said units has its outer end rounded at its upper corner as shown at 10. The end unit 8 has its inner end provided with a headed pin 7^a, and the inner end of unit 9 is provided with a slot 6^a, the said pin and slot being precisely the same as pins 7 and slots 6 of the other units. Each of the units, both end and in-

termediate is provided with a loop 11 secured to the outer face of the unit or link, by means of a rivet 12, and a buckle to be described is connected to each loop. The cross bar 13 of the buckle is engaged by the loop, and each buckle comprises a frame 14 of which the cross bar is a part, and a bar 15, having serrations 16 at its outer edge is mounted to slide on the frame. The ends of the cross bar 15 are bent around the end members of the frame 14, and are integral with the arms of a U-shaped member 17, fitting against the opposite face of the frame. The boot 18 may be of any desired material suitable for the purpose, and is fitted over the opening or injury in the tire 19.

The boot is provided at each side edge with a series of tabs 20, and each tab is engaged between the teeth 16 of the bar 15 and the adjacent side member of the frame 14. The tabs bear against the inner edge of the body of the member 17, and prevent the bar 15 from slipping away from engagement with the tab.

In use, the holders are first arranged on each side of the tire, the hooks 2 and 2^a engaging within the groove for the tire and beneath the ribs 3 at the sides of the groove. The boot is then placed, and the tabs are engaged on one side, that is with one holder. The tabs at the other side are then engaged, and all of the tabs may then be tightened in regular order. Or if desired the tabs on opposite sides at one end may first be engaged. After the boot has been placed the tire is inflated, and the pressure prevents any leakage.

The holders and the boot may be of any desired length and may be increased in length or diminished, by adding units or removing them. The pin and slot connection permits the tires expanding without displacing the units, and also permits the compression of the tire under load without any displacement of the holders.

I claim:—

1. A device of the character specified, comprising in combination with the boot adapted to be arranged transversely of the tread of a pneumatic tire, and provided with a series of spaced tabs at each side edge, of a holder at each side of the tire, each holder comprising a plurality of links, each having a longitudinal slot at one end and a headed pin at the other end for engaging the slot of the adjacent link, each

link having a hook intermediate its ends for engaging the rim supporting the tire, a loop pivoted to the outer face of each link above the hook, and a buckle connected to each loop, each buckle engaging the adjacent tab of the boot.

2. A device of the character specified, comprising in combination with the boot adapted to be arranged transversely of the tread of a pneumatic tire, and provided with a series of spaced tabs at each side edge, of a holder at each side of the tire, each holder comprising a plurality of links, each having a longitudinal slot at one end and a headed pin at the other end for engaging the slot of the adjacent link, each link having a hook intermediate its ends for engaging the rim supporting the tire, a buckle pivoted to each link, each buckle engaging the adjacent tab of the holder.

3. A device of the character specified,

comprising in combination with the boot adapted to be arranged transversely of the tread of a pneumatic tire, and provided with a series of spaced tabs at each side edge, of a holder at each side of the tire, each holder comprising a plurality of links connected together and slidable on each other, each link having a hook for engaging the rim, and a buckle pivoted to each link for engaging the adjacent tab.

4. A device of the character specified, comprising a plurality of series of slidably connected links, each link having a hook at one side, a loop pivoted to the outer face of each link, and a buckle connected with each loop.

WEBSTER D. GILBERT.

Witnesses:

ALANSON C. HAUGHTON,
JOHN G. FERRES.

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