M. KETCHUM.
Bolt-Holder.

No. 212,013. Patented Feb. 4, 1879.

Fig. 1.

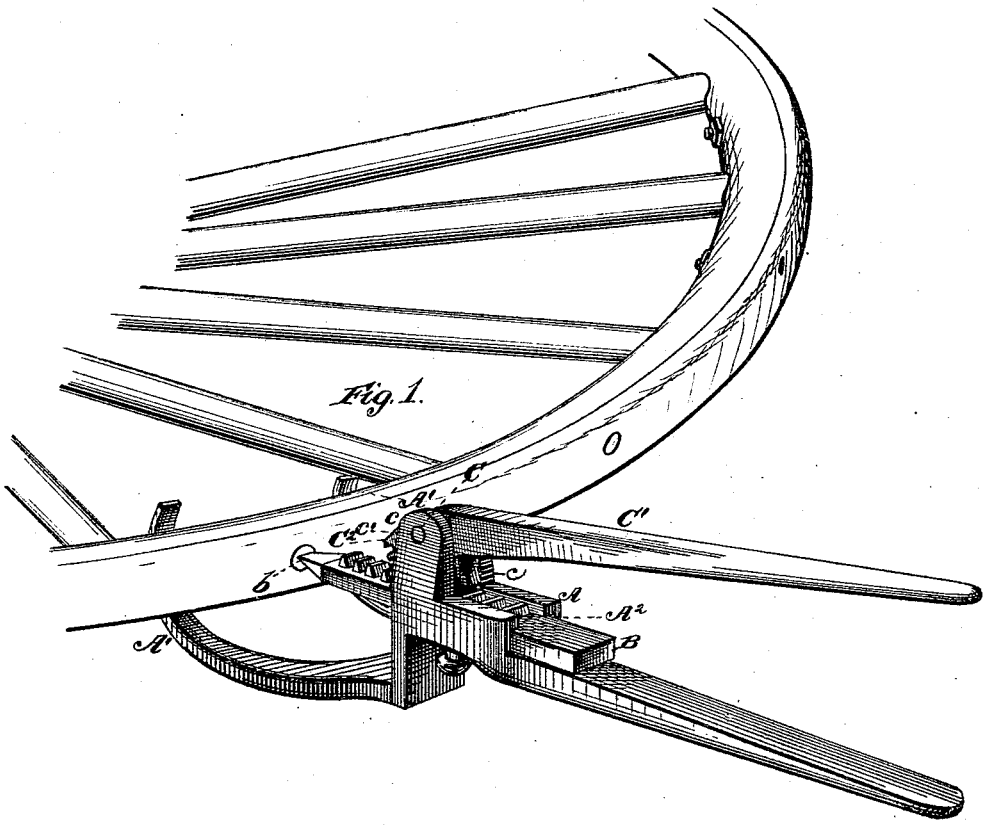
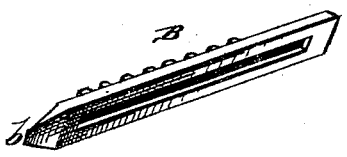


Fig. 2.



WITNESSES
Robt Everett.
N. Clay Pruett.

INVENTOR.
Martin Ketchum.
By Gilmore, Smith & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

MARTIN KETCHUM, OF AVON, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILL D. CRANDALL, OF SAME PLACE.

IMPROVEMENT IN BOLT-HOLDERS.

Specification forming part of Letters Patent No. **212,013**, dated February 4, 1879; application filed December 7, 1878.

To all whom it may concern:

Be it known that I, MARTIN KETCHUM, of Avon, in the county of Livingston and State of New York, have invented a new and valuable Improvement in Bolt-Holders; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a wheel, showing my bolt-holder applied; and Fig. 2 is a perspective view of the rack-bar.

My invention relates to a device for preventing bolts from turning in their sockets while the nut is being turned on or off; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and pointed out in the claim.

In carrying out my invention I employ a body or frame having two or more arms or standards, against which the tire or other article abuts. Two standards, also rigid with this body, furnish journal-bearing for a shaft, on which is pivoted a lever which has a cogged segment, which segment meshes with a sliding rack-bar of steel, having a sharp end, which end is forcibly held against the bolt-head by the lever, as shown.

My invention is peculiarly adapted to tire-bolts, but may be applied otherwise with efficient results.

Referring to the drawings, A represents the body, having two jaws or standards, A^1 A^1, and a guideway, A^2, adapted to loosely receive a rack-bar, B, which slides therein, as shown. Rigid with this body are two standards, *c c*, which furnish bearings at *c' c'* for a shaft, C, on which is hung a lever, C^1, having a toothed segment, C^2, which meshes with the sliding rack-bar B, and operates the same.

The rack-bar is made of steel, and has a sharp chisel-point or other end, *b*, which will engage the bolt-head and hold it from turning.

I do not confine myself to this exact construction, as various changes may be made without departing from the principle of my invention.

To prevent the rack-bar from becoming disengaged it may be provided upon its lower surface with a longitudinal slot, in which will operate a removable pin or lug.

What I claim as new, and desire to secure by Letters Patent, is—

The body A, having holding-standards A^1, guide A^2, and standards *c c'*, in combination with rack-bars B *b* and lever C^1, having toothed segment C^2, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MARTIN KETCHUM.

Witnesses:
NATHANIEL DANA,
JOSEPH A. DANA.