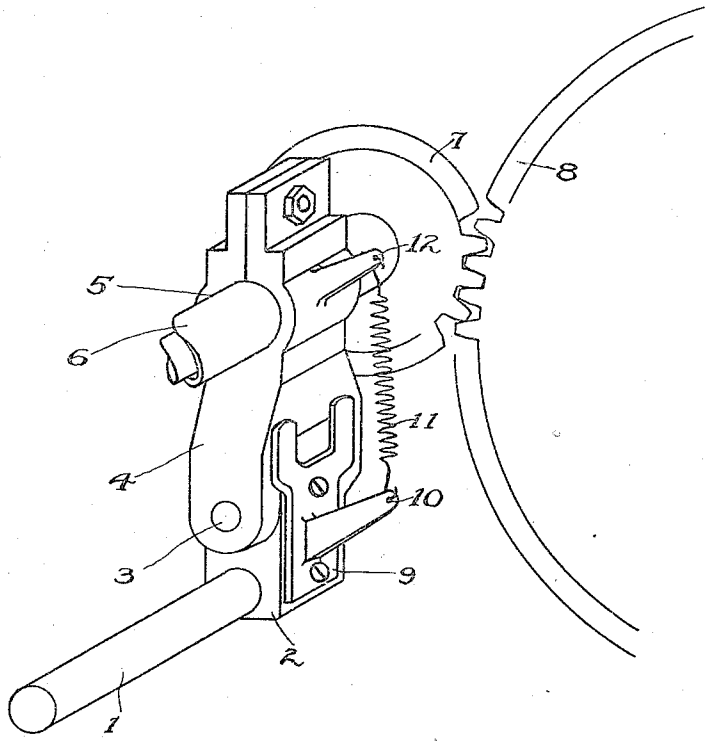
A. A. YOCUM.

SPEEDOMETER PINION BRACKET.

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Inventor:
Anthony A. Yocum
by C. D. Knoch
Attorney.

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

UNITED STATES PATENT OFFICE.

ANTHONY A. YOCUM, OF NORTH ST. PAUL, MINNESOTA.

SPEEDOMETER-PINION BRACKET.

1,227,517. Specification of Letters Patent. Patented May 22, 1917.

Application filed December 1, 1916. Serial No. 134,498.

To all whom it may concern:

Be it known that I, ANTHONY A. YOCUM, a citizen of the United States, and a resident of North St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Speedometer-Pinion Brackets, of which the following is a specification.

One object of my invention is to provide in a speedometer bracket a hinged connection and spring controlled means for maintaining the speedometer pinion in mesh with its gear.

Another object of my invention is to provide means for limiting the motion of the hinge provided in a speedometer pinion bracket.

Another object of my invention is to provide a reversible stop for limiting the motion of a hinged speedometer pinion bracket.

With these and incidental objects in view, the invention consists of certain novel features of construction and combination of parts, the essential elements of which are hereinafter described with reference to the drawing which accompanies and forms a part of this specification.

The drawing is a perspective view of my improved speedometer pinion bracket and shows a pinion mounted therein.

A stub shaft 1 is mounted on the spindle or knuckle of the wheel to which the device is applied in any suitable manner and is firmly attached to form a part thereof. A block 2 to which is hinged at 3 a fork terminating at the other end in a split socket 5, is designed to engage a flexible cable housing 6 in the usual manner and thereby carry the ordinary speedometer pinion 7 in engagement with a speedometer gear 8, in a manner well known to those skilled in the art.

A stop 9 is suitably mounted on the block 2 to limit the forward motion of the fork 4 so that the gear and pinion will normally be in proper alinement, and an ear 10 provides means for connecting the spring 11 to the ear 12 carried by the split socket end of the fork.

By reversing the fork 4 and also the stop 9, the attachment may be set forward or to the rear of the wheel to which it is applied.

It is evident that when properly set up, if a stone or twig should pass between the speedometer pinion and gear, no ill effects would result, as the pinion would merely be forced away from the gear and thrown back into mesh by the spring 11, with only a possibility of the slippage of one or two teeth.

With the ordinary style of mounting, should a stone of any considerable size pass through the gears, the result is to strip the teeth from either gear or pinion, or both, requiring the installation of new parts.

While I have described my invention and illustrated it in one particular design, I do not wish it understood that I limit myself to this construction, as the application of my invention may be varied in many ways within the scope of the following claims.

Claims:

1. In a speedometer pinion bracket, the combination of a support, a reversible fork hinged to said support and terminating in a pinion mounting, and a spring between said support and said fork for holding the pinion carried in said fork in mesh with the gear with which it operates.

2. In a speedometer pinion bracket, the combination of a support, a hinged member carried thereon adapted to support a speedometer pinion, a stop on said support for limiting the motion of said fork in one direction, and spring means between said fork and said support for normally maintaining said fork against said stop.

3. In a speedometer pinion bracket, the combination of a support, a fork hinged thereto and adapted to carry in a journal connection a speedometer pinion, a stop limiting the motion of the hinged connection between said support and said fork and adapted to be mounted on either side of said support, and spring means adapted to hold said fork against said stop.

ANTHONY A. YOCUM.

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