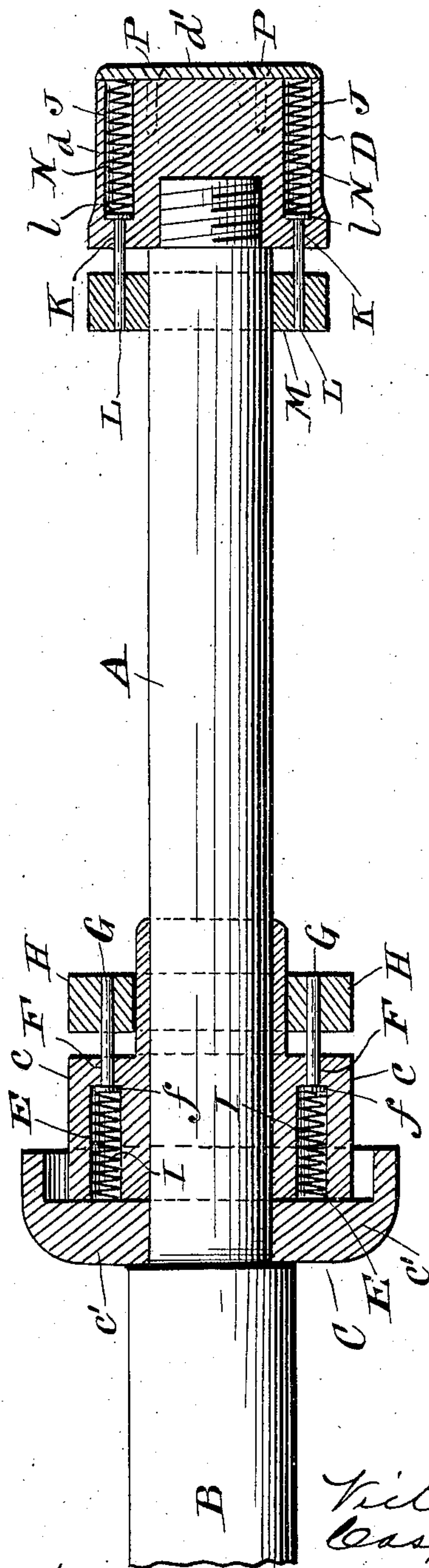


No. 844,545.

PATENTED FEB. 19, 1907.

V. SCOTT & C. WOLF.  
WASHER FOR VEHICLE SPINDLES.

APPLICATION FILED OCT. 20, 1906.



Witnesses

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# UNITED STATES PATENT OFFICE.

VICTOR SCOTT AND CASPER WOLF, OF BROOKSBURG, INDIANA.

## WASHER FOR VEHICLE-SPINDLES.

No. 844,545.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed October 20, 1906. Serial No. 339,867.

*To all whom it may concern:*

Be it known that we, VICTOR SCOTT and CASPER WOLF, citizens of the United States, residing at Brooksburg, in the county of Jefferson and State of Indiana, have invented certain new and useful Improvements in Washers for Vehicle-Spindles, of which the following is a specification.

Our invention relates to washers used on spindles of vehicles, and has for its object the provision of spring-actuated plates attached to the shoulders of the spindle and to the nuts at the end of the spindles. The springs for actuating the plates are contained in sockets in the shoulders and the nuts and bearing against headed pins secured to the plates and extending into the sockets.

The construction and operation of our invention will be explained in detail herein after and illustrated in the accompanying drawing, which shows a wagon-spindle having the shoulder and the nut on the end in section.

Referring to the drawing, A indicates a wagon-spindle of any desired construction on the axle B, C the shoulder mounted on the butt-end of the spindle, and D the nut on the end of the spindle. The shoulder C consists of two parts *c* and *c'*, the part *c* being formed with sockets E and holes F, extending therefrom.

G indicates pins slidably mounted in holes F, having the ends in the sockets E formed with heads *f*, while the other ends of the pins are secured to a ring H, mounted on the spindle.

I indicates coil-springs mounted in sockets E and bearing against the heads *f*. The nut D is also formed in two parts *d* and *d'*. The part *d* is formed with sockets J and holes K, with pins L mounted in said holes K and having heads *l* on the ends in the sockets J and a ring M secured to the other end.

N indicates coil-springs mounted in sockets K and bearing against the heads *l*. The part *d'* comprises a cap-plate to cover the outer ends of sockets J and is secured to the part *d* by screws or rivets P.

It will be understood that our improved washer for vehicle-spindles will prevent lat-

eral movement of the vehicle-wheel, thus preventing it from running unevenly or wobbling on the spindle and also that the strain on the wheels and spindles is reduced in passing over unevenness in the road.

It will be apparent that the washer on the shoulder may be used with or without the nut shown and described and that the nut may be used with the ordinary construction of spindle, if desired, without altering the spirit of our invention.

Having thus described our invention, what we claim is—

1. In combination with a vehicle-spindle, the shoulder provided with sockets and holes, pins slidably mounted in said holes and having their ends extending into said sockets and provided with heads, a ring surrounding said spindle and secured to the outer ends of said pins, and coil-springs mounted in said sockets and bearing against said heads, substantially as shown and described.

2. A nut for vehicle-spindles having sockets and holes communicating with said sockets, pins slidably mounted in said holes and having their ends extending into said sockets and provided with heads, a ring secured to the outer ends of said pins, and coil-springs mounted in said sockets and bearing against the heads of said pins, substantially as shown and described.

3. In combination with a vehicle-spindle, the nut and shoulder provided with sockets and holes communicating with said sockets, pins slidably mounted in said holes and having their ends extending into said sockets and provided with heads, rings surrounding the spindle and secured to the outer ends of said pins, and coil-springs mounted in said sockets and bearing against the heads of said pins, substantially as shown and described.

In testimony whereof we hereto affix our signatures in the presence of two witnesses.

VICTOR SCOTT.  
CASPER WOLF.

Witnesses:

NELLA M. LAND,  
JAMES M. DEMAREE.