

R. J. NORTH.  
 Improvement in Wagon Wrench.

No. 125,753.

Patented April 16, 1872.

Fig. 1.

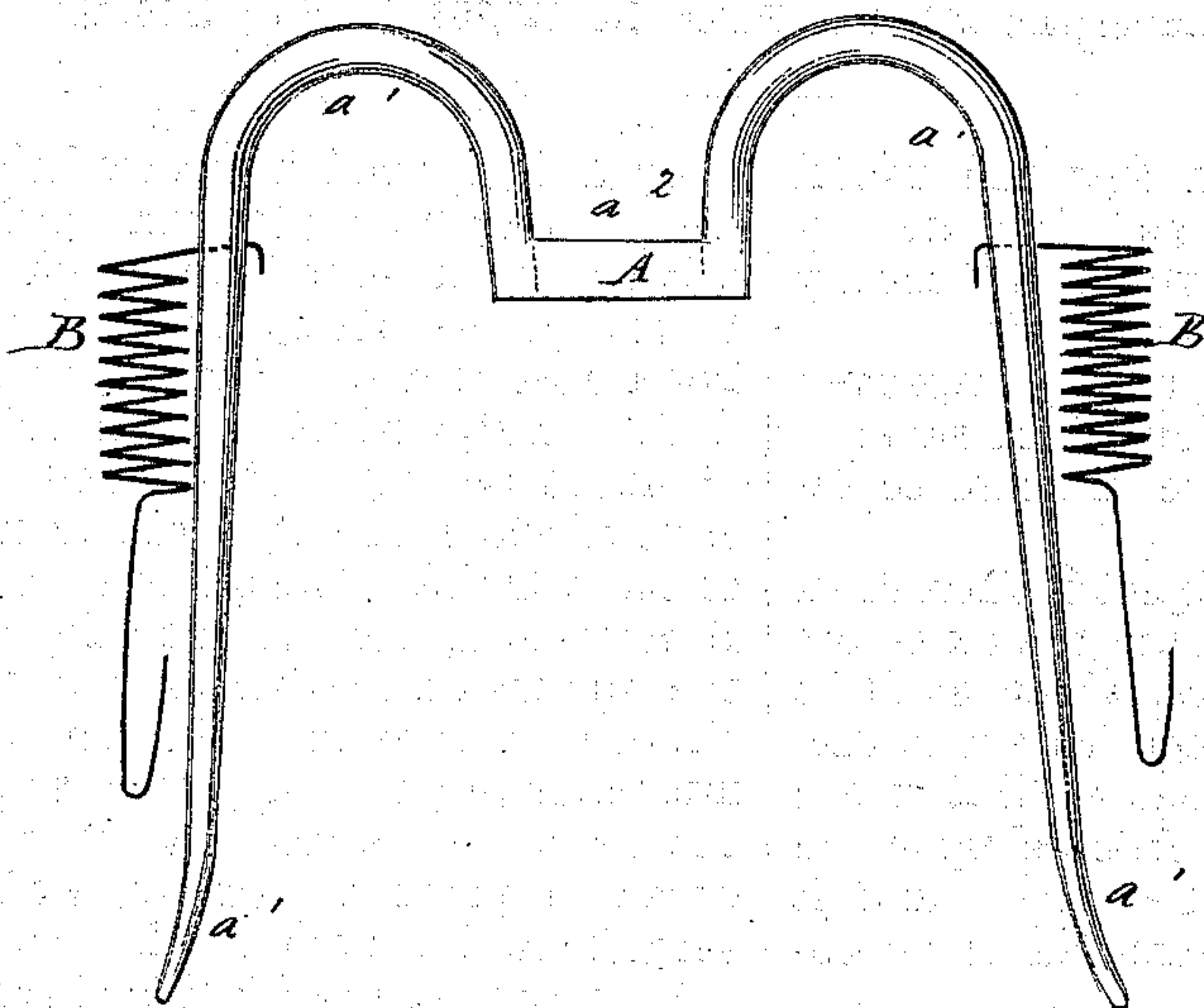
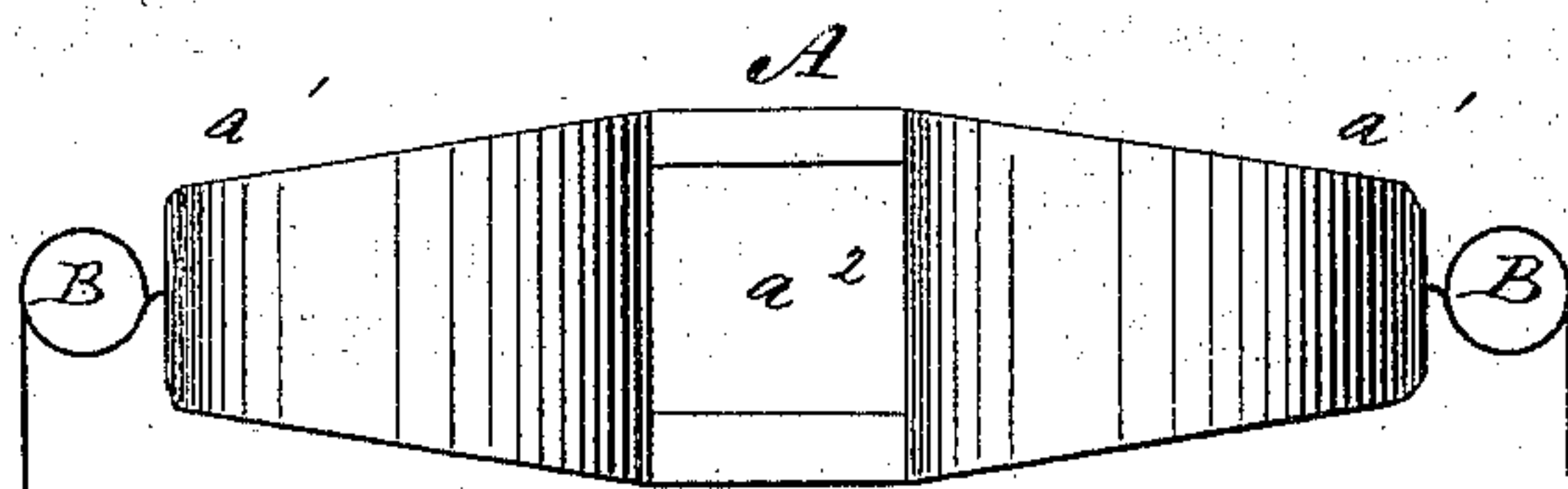


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

ROLAND J. NORTH, OF CORNWALL, CONNECTICUT, ASSIGNOR TO HIMSELF  
AND B. B. NORTH, OF SAME PLACE.

## IMPROVEMENT IN WAGON-WRENCHES.

Specification forming part of Letters Patent No. 125,753, dated April 16, 1872.

Specification describing a new and useful Improvement in Wagon-Wrench, invented by ROLAND J. NORTH, of Cornwall, in the county of Litchfield and State of Connecticut.

Figure 1 is a side view of my improved wrench. Fig. 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved wrench, for removing the axle-nuts of wagons and other vehicles, which shall be simple in construction and convenient in use, being so constructed that when applied to the nut the nut will be screwed from or upon the axle by simply revolving the wheel; and it consists in the wrench constructed as herein-after more fully described.

A is the body of the wrench, which is made with two arms,  $a^1$ , which are curved, as shown in Figs. 1 and 2, so that the body A may enter the hub-band and receive the nut. The arms  $a^1$  are made of such a length that they may extend along the sides of the hub and pass between the spokes, so that the wheel, when revolved, will carry the wrench with it, and thus screw the nut off or on, according to the direction in which the wheel is revolved. In the

body A is formed a square hole,  $a^2$ , which is designed to be made sufficiently large to receive any axle-nut, and which may be made to fit smaller nuts by a bushing or block having a hole of the proper form and size to fit the desired nut, and which is fitted into the hole  $a^2$  in the body A. B are coiled springs, the ends of which are attached to the outer parts of the arms  $a^1$ . The other ends of the springs B have hooks formed upon them to hook upon the spokes of the wheel, and thus hold the wrench securely in place while allowing the nut to move out or in as it is screwed off or on the axle. If desired, the wrench may be secured in place by screws, wedges, or other suitable and convenient device.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the springs B with the wrench A  $a^1$ , substantially as herein shown and described, and for the purpose set forth.

ROLAND J. NORTH.

Witnesses:

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