

No. 826,757.

PATENTED JULY 24, 1906.

W. C. WATERFIELD.  
SPROCKET WHEEL.  
APPLICATION FILED OCT. 16, 1905.

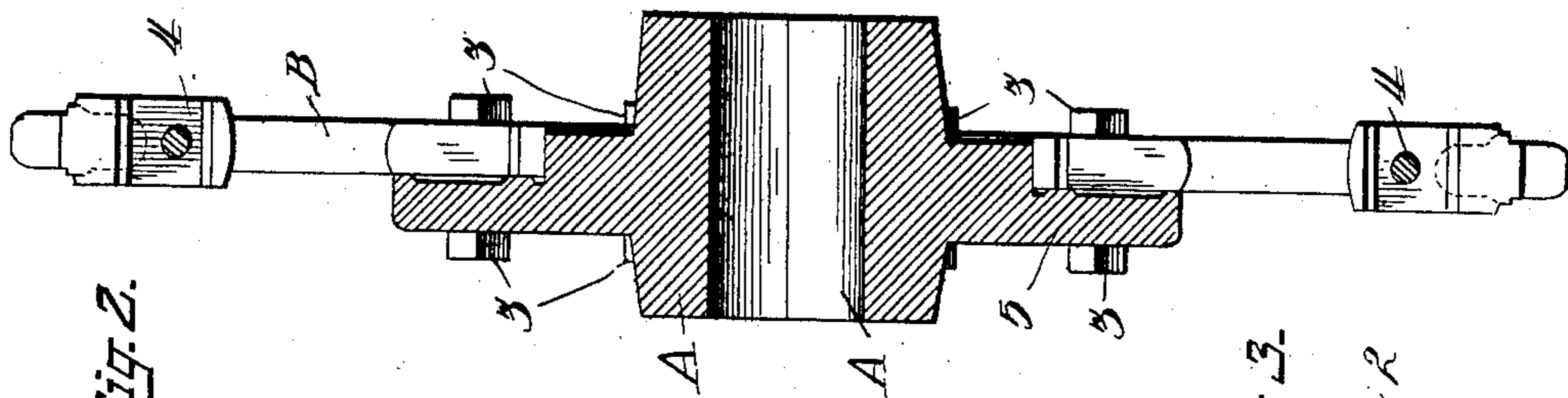


Fig. 2.

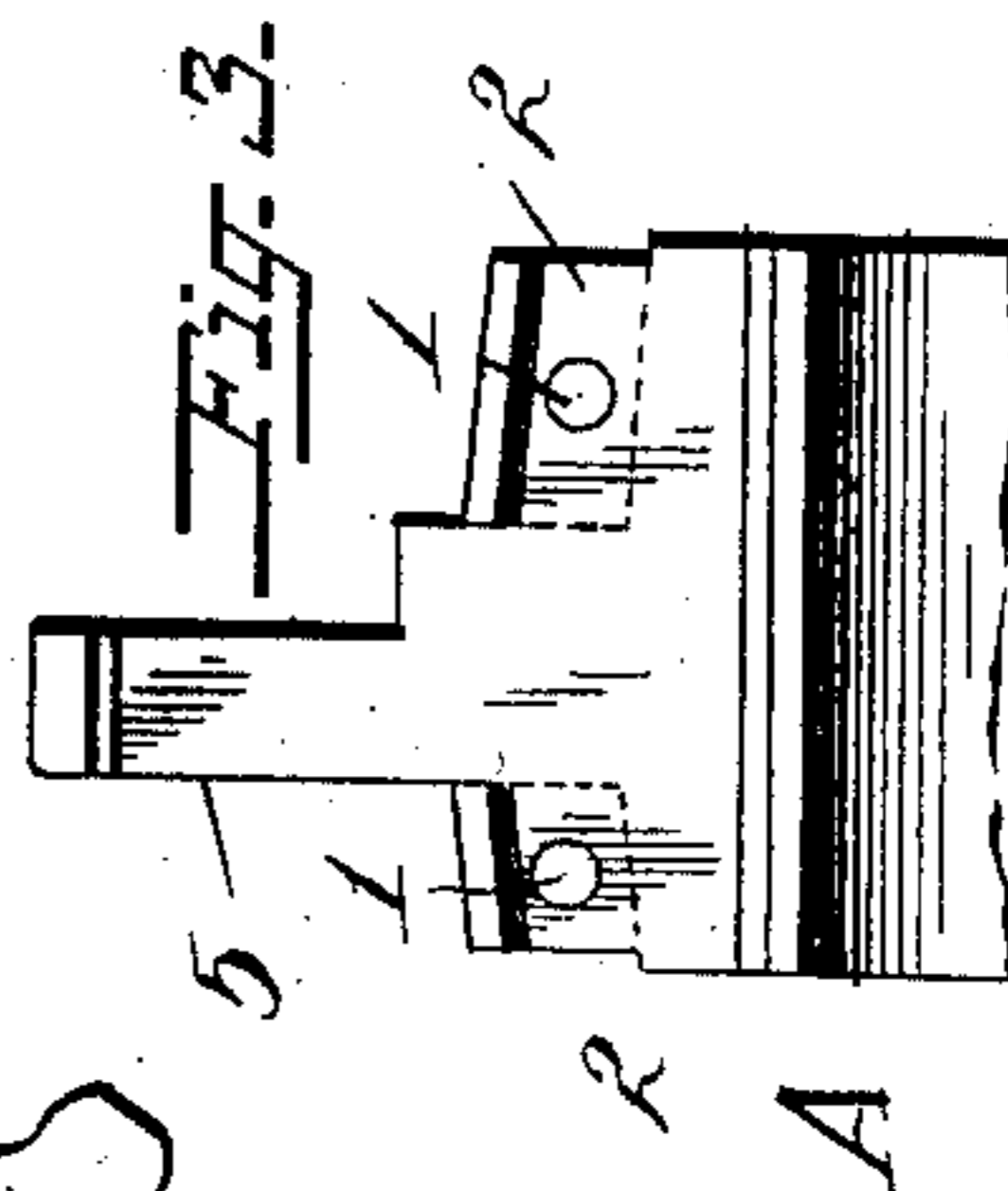


Fig. 3.

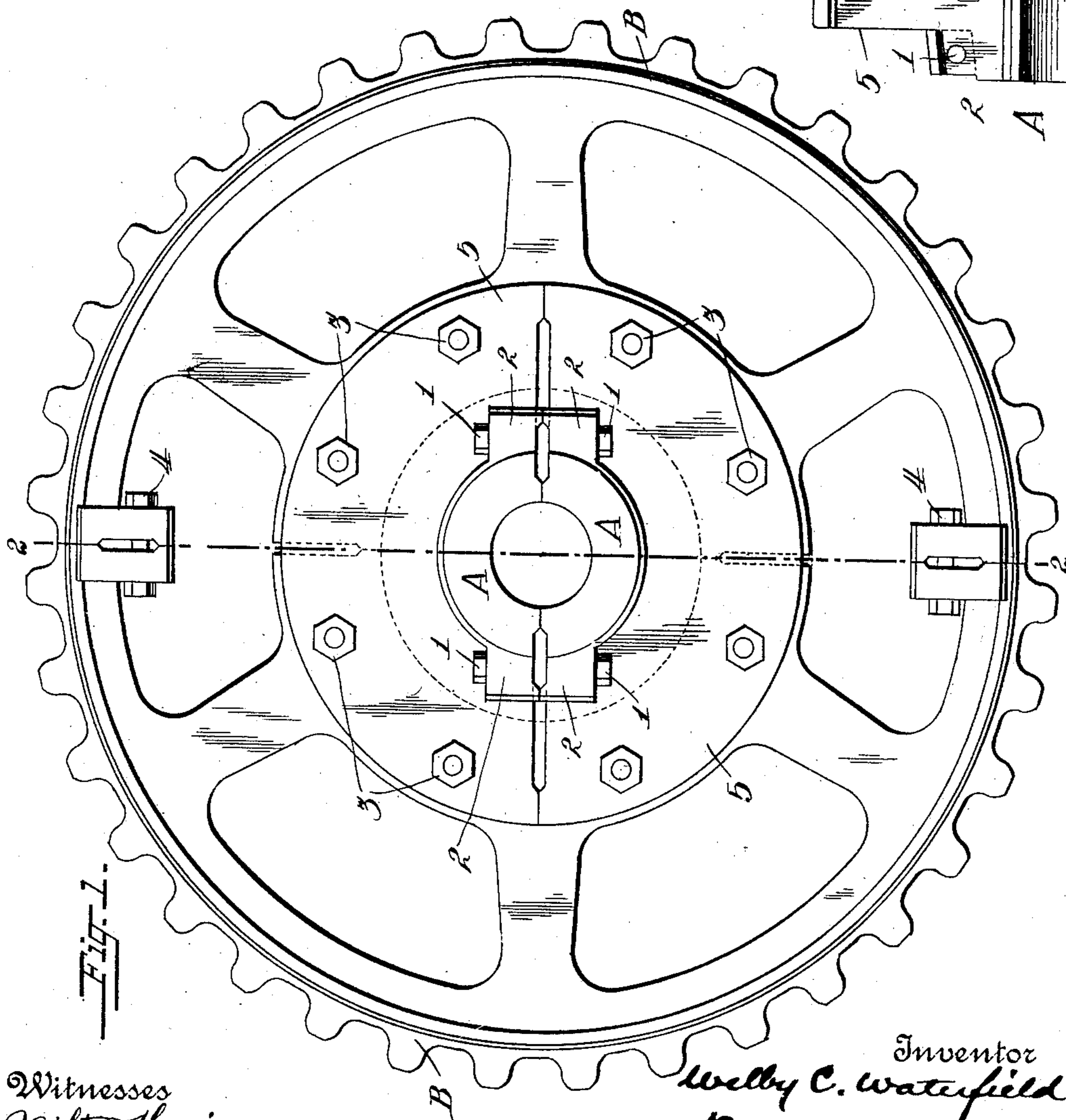


Fig. 1.

Witnesses  
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# UNITED STATES PATENT OFFICE.

WELBY C. WATERFIELD, OF SANDUSKY, OHIO.

## SPROCKET-WHEEL.

No. 826,757.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed October 16, 1905. Serial No. 283,050.

*To all whom it may concern:*

Be it known that I, WELBY C. WATERFIELD, a citizen of the United States, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Sprocket-Wheels, of which the following is a specification.

My invention relates to an improvement in sprocket-wheels; and the object is to provide a sprocket-wheel in which different sizes of teeth and rims may be secured to the same hub for different sizes of sprocket-wheels without removing or disturbing the hub of the shaft, thus saving expense.

With these objects in view my invention consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation. Fig. 2 is a section on the lines 2 2 of Fig. 1; and Fig. 3 is a fragmentary section of a portion of the hub, taken at right angles to the section shown in Fig. 2.

A A represent the sections of the hub, same being screwed to the shaft (not shown) by the lag-screws 1 1, passing through the ears 2 2 of the hub-sections.

B B represent the rim-sections. These are screwed to the flange 5 by bolts 3 3 and to each other by bolts 4 4, extending through the lugs 5 5. When once the hub is properly secured upon the shaft, the rim and tooth sections may be bolted thereto or removed without disturbing the hub in its position on the shaft. In this way different sizes of sections may be used or a broken section renewed at any time to suit requirements. The bolts draw the sections of the hub and

also the sections of the rim gradually together, and when the rim-sections are thus secured together they are bolted to the flange of the hub. In this way a very simple method is provided for the renewal of a broken sprocket-wheel rim or the alteration in its size to suit the requirements of the user.

Slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. A sectional sprocket-wheel comprising a split hub and rim, the hub-sections having semicircular flanges which when together form a complete, continuous circular flange, the spokes of the rim-sections connected together and these connected portions removably secured to the flange of the hub-sections.

2. A sectional sprocket-wheel comprising hub and rim sections independent of each other, the rim-sections comprising an outer peripheral portion, integral spokes and integral connections between the inner ends of the spokes and the hub having an outwardly projecting flange to which the connecting portion of the rim-sections are removably bolted.

In testimony whereof I affix my signature in presence of two witnesses.

WELBY C. WATERFIELD.

Witnesses:

E. S. STEPHENS,  
H. D. CLUTE.