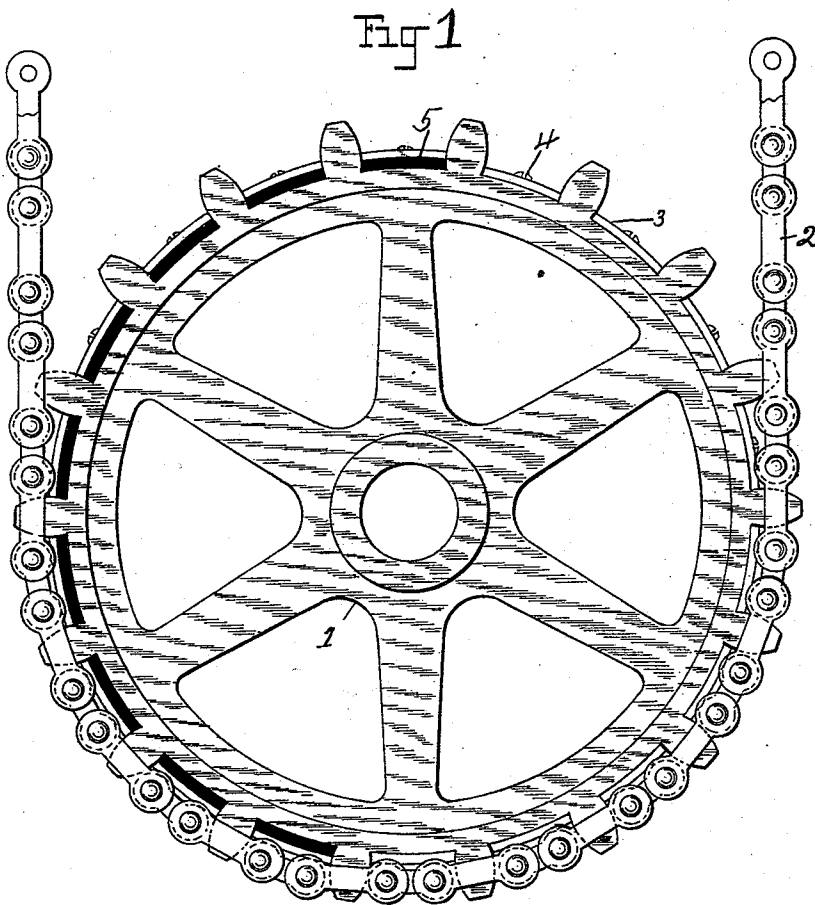
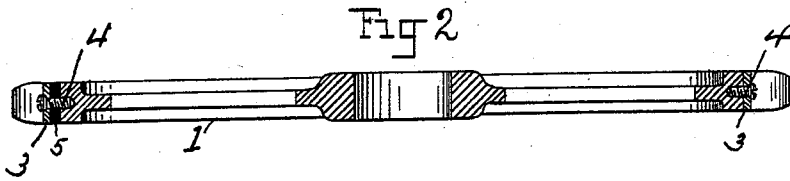


(No Model.)

P. D. MURPHY & E. KOLB.
SPROCKET WHEEL.

No. 527,153.

Patented Oct. 9, 1894.



WITNESSES:
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UNITED STATES PATENT OFFICE.

PETER D. MURPHY AND EDWARD KOLB, OF LOCKPORT, NEW YORK.

SPROCKET-WHEEL.

SPECIFICATION forming part of Letters Patent No. 527,153, dated October 9, 1894.

Application filed February 5, 1894. Serial No. 499,087. (No model.)

To all whom it may concern:

Be it known that we, PETER D. MURPHY and EDWARD KOLB, citizens of the United States of America, residing at Lockport, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Sprocket-Wheels, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain new and useful improvements in wheels and particularly to sprocket wheels, the following being such a full, clear, and exact description of the same as will enable others skilled in the art to which it appertains to make and use the same.

The object of said invention is to provide novel means for increasing the diameters of sprocket wheels to compensate for the extension of the chain incident to long use, it being well known that the joints of such chains become worn and that the distance between the links are greater in consequence, thus causing the chain to run upon the sprocket teeth, and resulting in increased wear on both the wheel and the chain.

A further object of our invention is to arrange the parts in such a manner as to make varying adjustments possible in accomplishing the result above set forth as the wear on the chain increases and necessitates the increased diameter, and furthermore in providing means to this end which are strong and durable, efficient and satisfactory in use as well as comparatively inexpensive of manufacture.

With these and other objects in view the invention consists in the various novel details of construction, arrangement and combinations of parts to be hereinafter more fully described and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings forming a part of this specification and wherein like characters of reference indicate corresponding parts in both views, in which—

Figure 1, is a view in side elevation of a

sprocket wheel with our improvement applied thereto in several degrees of adjustment, and Fig. 2, is a central sectional view thereof. 50

In the drawings:—1, denotes a sprocket wheel of ordinary construction, with a chain 2, applied, engaging the teeth thereof; 3, the adjustable metal plates secured in position between the teeth of the wheel, and held in place by the screw 4, engaging the periphery of the wheel. The plates 3, are made adjustable by interposition of packing 5, which may consist of metal or fibrous substance as desired and the thickness thereof being varied to produce the result sought, the particular adjustment depending upon the chain. In most cases the plates without packing would produce the desired result for the first adjustment. The packing further serves to materially lessen the noise caused by the chain moving over the wheel especially if leather or soft metal is used. 60

The advantages of the invention as well as the construction and operation will be apparent from the foregoing description and it is particularly noted that changes and substitutions may be made in the details of construction without materially departing from the general idea involved. 75

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

1. A sprocket wheel having removable plates secured between the teeth in length equal to the distance between said teeth for the purpose described. 80

2. The combination with the toothed wheel, of plates adapted to fit on the periphery thereof between the teeth and the interposed packing for the purpose described. 85

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

PETER D. MURPHY.
EDWARD KOLB.

Witnesses:

JOHN E. LILLIS,
ANNA BURKE.