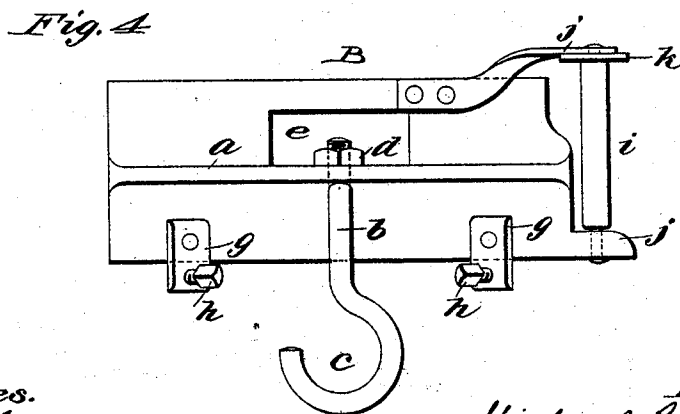
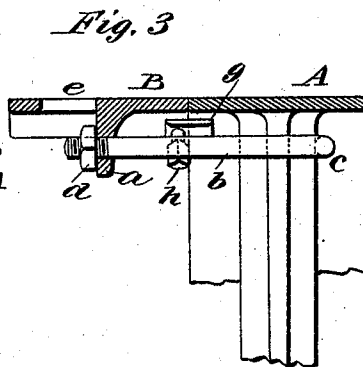
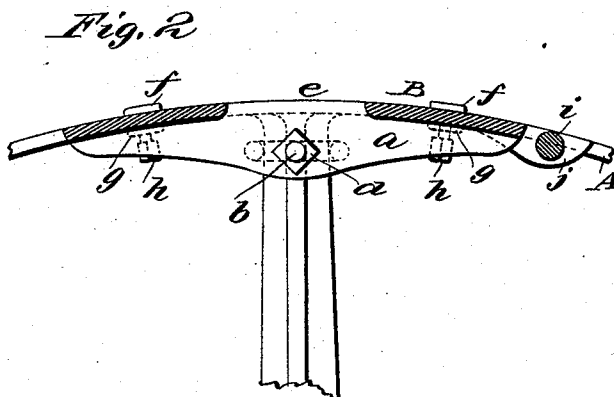
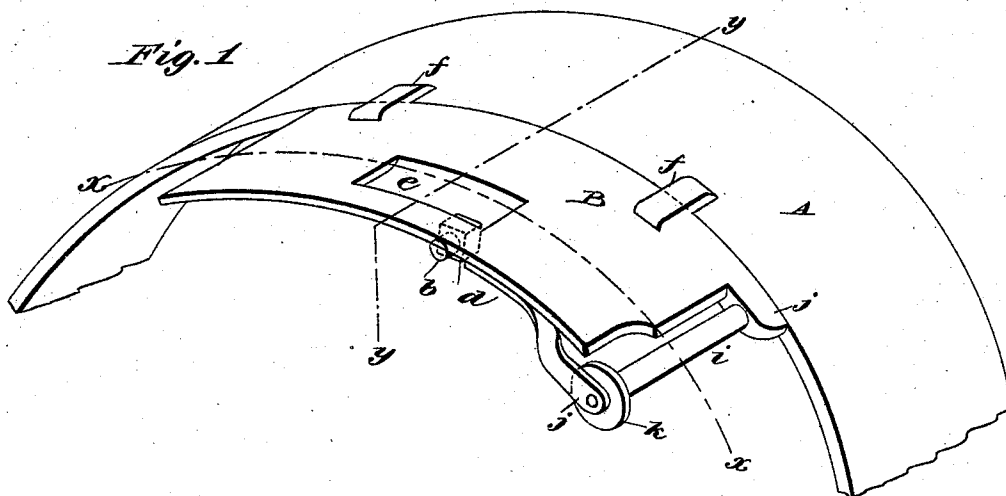


(No Model.)

M. R. ZAHNISER.
BELT REPLACER.

No. 577,096.

Patented Feb. 16, 1897.



Witnesses.

J. F. Glemaw
Archib. G. Rees

Inventor

Michael R. Zahniser
by Frank L. Ayer
Atty

UNITED STATES PATENT OFFICE.

MICHAEL R. ZAHNISR, OF WASHINGTON, PENNSYLVANIA.

BELT-REPLACER.

SPECIFICATION forming part of Letters Patent No. 577,096, dated February 16, 1897.

Application filed April 10, 1896. Serial No. 587,030. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL R. ZAHNISR, a citizen of the United States, residing at Washington, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Belt-Replacers; and I do hereby declare the following to be a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to various new and useful improvements in belt-replacers designed particularly for use in placing and replacing very heavy belts on fly-wheels and drive-wheels; and the object of the invention is to cheapen, simplify, and improve the construction of such devices.

The specific variety of belt-replacers to which the invention specifically relates is that wherein a segment-shaped plate secured to the wheel-rim is employed for replacing the belt.

For a better comprehension of my invention attention is directed to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of a part of a drive-wheel with my invention in position thereon; Fig. 2, a sectional view on the line *x x* of Fig. 1; Fig. 3, a similar view on the line *y y* of Fig. 1, and Fig. 4 a bottom view of the device.

In all of the above views corresponding parts are represented by the same letters of reference.

A indicates an ordinary fly-wheel or drive-wheel, over which a belt (not shown) is supposed to run, and B is the improved belt-replacer. Broadly considered, the said replacer consists of an arched plate extending in line with a portion of the rim of the drive or fly wheel, having improved means for fastening it in place, and provided with a roller at one edge by reason of which the operation of replacing the belt on the wheel will be facilitated.

The arched plate is provided on its under side with a web *a*, which serves to strengthen the plate, and passing through said web is a screw-threaded rod *b*, having a hooked end *c* engaging with one of the spokes of the wheel. By means of a nut *d* on the screw-threaded rod *b* the device may be clamped tightly against the wheel-rim, and in order that said

nut may be more conveniently operated I cut away the arched plate at *e*, through which opening said nut may be reached.

On top of the arched plate are one or more flat lugs *f*, engaging the outer face of the wheel-rim, and which serve to maintain the arched plate in line with the rim. Said lug or lugs may be either separate elements or be cast integral with the plate.

On the bottom of the arched plate are other lugs—one or more—represented at *g*, which extend underneath the wheel-rim, and working in each of said lugs *g* is a set-screw *h*, by means of which and the hooked rod *b* the arched plate may be tightly clamped in place.

At one edge of the arched plate is mounted a roller *i* in suitable bearings *j j*, which may be cast with said plate, if desired, or be separate elements, and said roller is preferably provided at its outer end with a flange *k*, which serves to guide the belt.

The replacer being securely fastened to the rim of the wheel operates in replacing the belt thereon in the ordinary way.

Having now described my invention, what I claim as new therein, and desire to secure by Letters Patent, is as follows:

1. A belt-replacer, comprising an arched plate, a hooked rod *b* engaging with a spoke of the wheel, lugs *f* on said plate above the wheel-rim, lugs *g* on said plate below the wheel-rim, and a roller *i* at the edge of said arched plate, substantially as set forth.

2. A belt-replacer, comprising an arched plate, a hooked rod *b* engaging with a spoke of the wheel, lugs *f* on said plate above the wheel-rim, lugs *g* on said plate below the wheel-rim, set-screws *h* in said lugs *g* engaging beneath the wheel-rim, and a roller *i* at the edge of said arched plate, substantially as set forth.

3. A belt-replacer, comprising an arched plate, a hooked rod *b* engaging with a spoke of the wheel, a nut *d* on said hooked rod, said arched plate having an opening *e* above said nut, lugs *f* on said plate above the wheel-rim, and lugs *g* on said plate below the wheel-rim, substantially as set forth.

This specification signed and witnessed this 28th day of February, 1896.

MICHAEL R. ZAHNISR.

Witnesses:

C. B. SNYDER,
SAMUEL BURROUGHS.