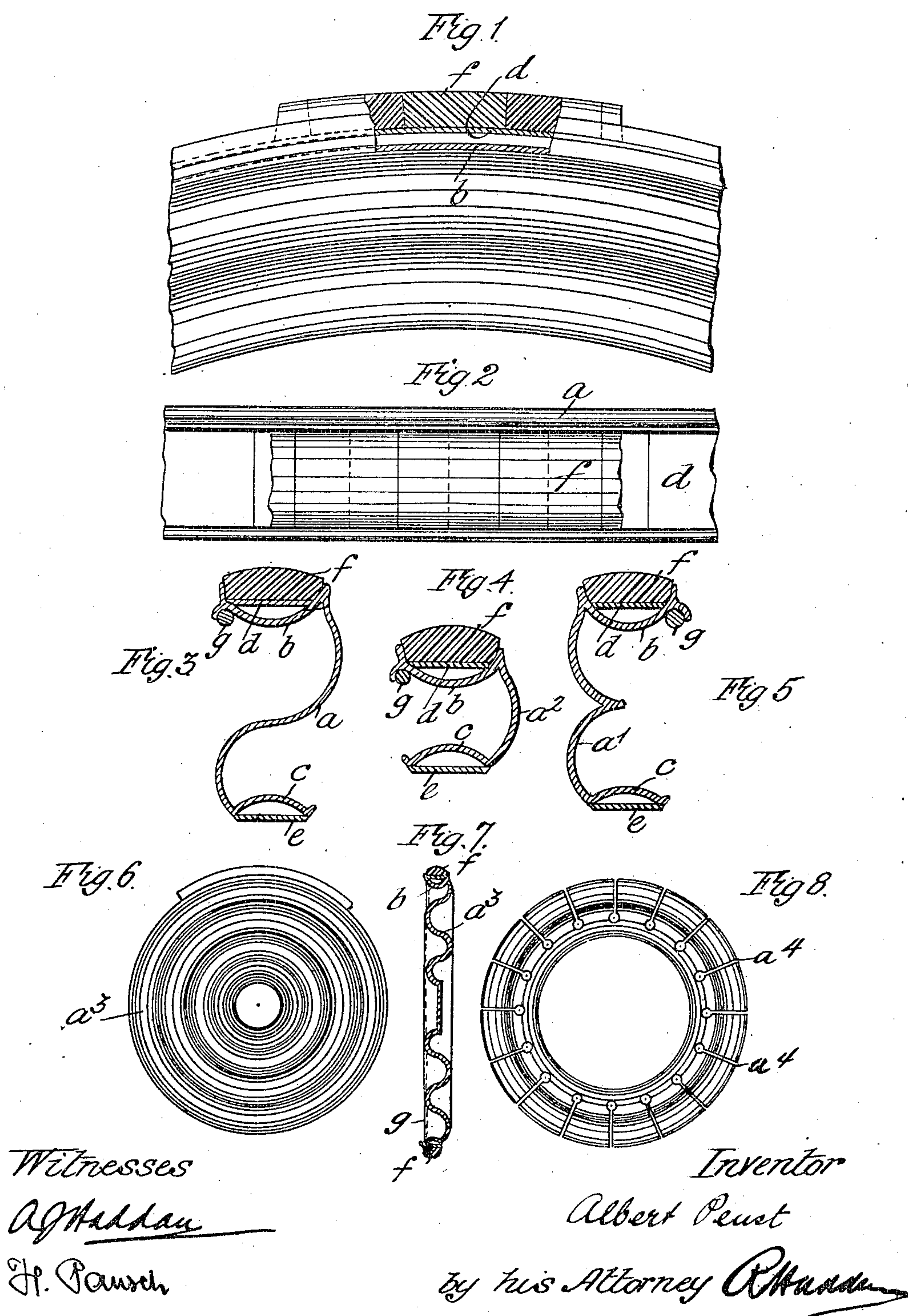


No. 812,227.

PATENTED FEB. 13, 1906.

A. PEUST.  
ELASTIC METAL FELLY.  
APPLICATION FILED JAN. 12, 1905.





# UNITED STATES PATENT OFFICE.

ALBERT PEUST, OF HANOVER, GERMANY.

## ELASTIC METAL FELLY.

No. 812,227.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed January 12, 1905. Serial No. 240,778.

*To all whom it may concern:*

Be it known that I, ALBERT PEUST, a subject of the German Emperor, and a resident of Hanover, Kingdom of Prussia, Empire of Germany, have invented new and useful Improvements in Elastic Metal Fellyes for Vehicle-Wheels, of which the following is a specification.

The object of this invention is to provide an elastic metallic felly for vehicle-wheels; and the invention consists in the novel combination and arrangement of parts, more fully hereinafter explained, shown in the accompanying drawings, and specifically set out in the claims.

In the annexed drawings, in which similar reference - letters indicate similar parts throughout the several views, Figure 1 is an elevation of a part of an elastic metallic felly with a solid tire in partial cross-section; Fig. 2, a plan view of a part of such felly and tire. Figs. 3, 4, and 5 are cross-sections of various forms thereof. Fig. 6 is a side elevation of an entire spokeless wheel constructed according to the same system; Fig. 7, the same spokeless wheel in cross-section; Fig. 8, an elevation of an elastic metallic felly having in its periphery radial cuts, the object of which will be hereinafter explained.

The improved felly is composed of an annular concave portion *b* and an annular convex portion *c*, the one edge of one of these portions being connected to the one edge of the other said portion by a curved plate which may have the form of two semicircles, as at *a*, Fig. 3, or at *a'*, Fig. 5, connected in an S curve or an E curve, respectively, or it may have the form of a single curve, as at *a'*, Fig. 4. The concave and convex portions *b c* are bridged by a cylindrical plate *d* or *e*, respectively, in or on which the tire *f*, of any suitable kind, and the spokes of the wheel may be fastened. If the curved plate is continued in

the form of an undulated plate *a*<sup>3</sup> up to the hub, the convex plate *c* is omitted, as shown in Figs. 6 and 7. The outer edge of plate *b* opposite to that whence the curved plate *a*, *a'*, *a*<sup>2</sup>, or *a*<sup>3</sup> starts is curved to house an annular rod *g* to strengthen the felly at his edge.

If desired, the tire *f* may be omitted and the plate *a* may be slit radially for a desired distance inwardly of its outer edge, as shown in Fig. 8 at *a*<sup>4</sup>.

What I claim as my invention is—

1. An elastic metallic felly for vehicle-wheels comprising in combination a concave plate *b* and a curved plate leading inwardly from one of the edges of said concave plate.

2. An elastic metallic felly for vehicle-wheels comprising in combination a concave plate *b* and a curved plate leading inwardly from one of the edges of said concave plate and a cylindrical plate bridging said concave plate.

3. An elastic metallic felly for vehicle-wheels comprising in combination a concave plate *b* and a curved plate leading inwardly from one of the edges of said concave plate and an annular rod supporting the other edge of said concave plate.

4. An elastic metallic felly for vehicle-wheels comprising a concave plate *b*, a convex plate *c* and a curved plate extending from one edge of plate *b* to one edge of plate *c*.

5. An elastic metallic felly for vehicle-wheels comprising a concave plate *b*, a convex plate *c* and a curved plate extending from one edge of plate *b* to one edge of plate *c* and cylindrical plates *d e* bridging said plates *b c* respectively.

Signed this 31st day of December, 1904.

ALBERT PEUST.

Witnesses:

LEONORE RASCH,  
H. HALL HALL.