

(No Model.)

H. CLAUS.
ELASTIC WHEEL.

No. 488,539.

Patented Dec. 27, 1892.

Fig. 2.

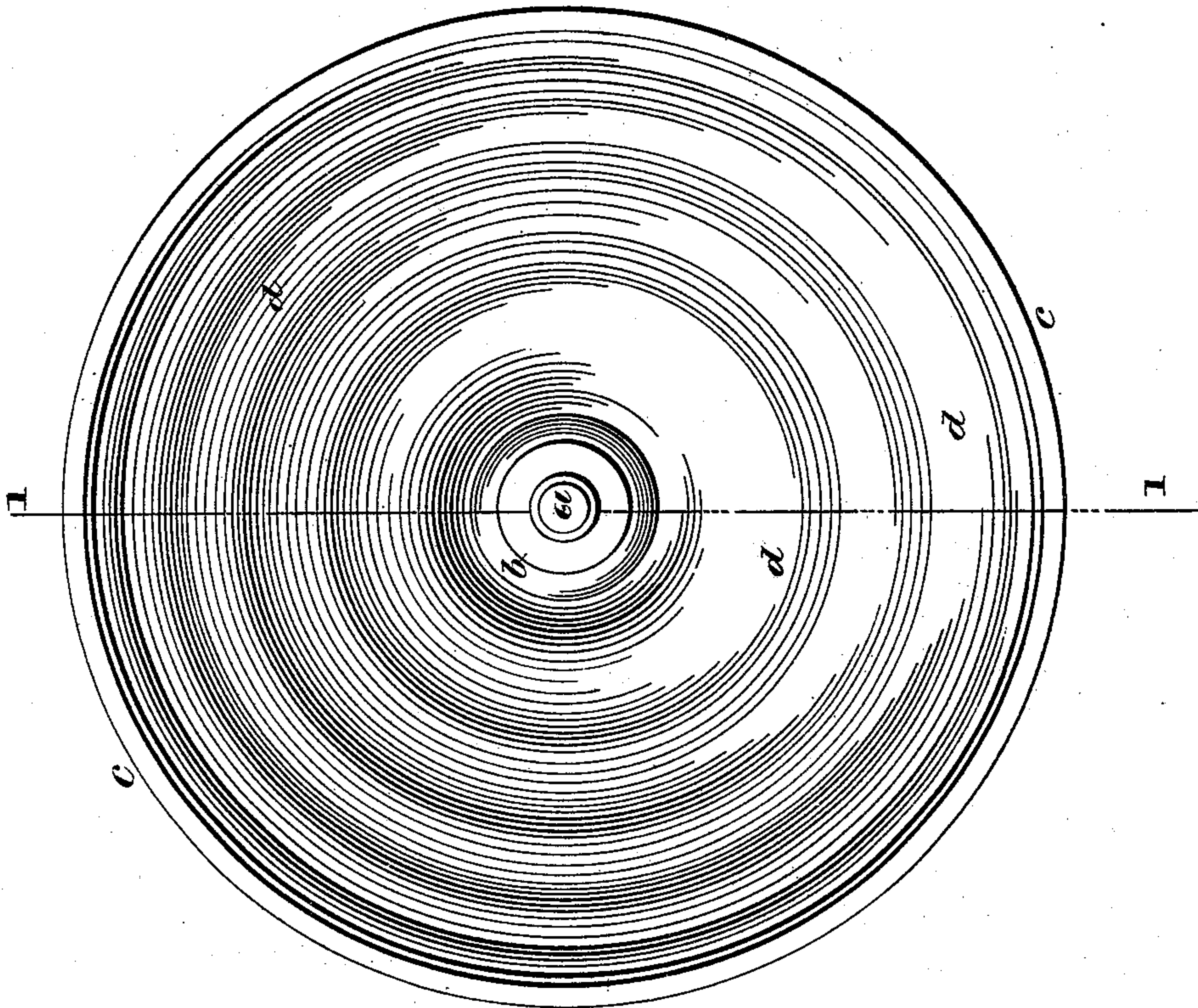
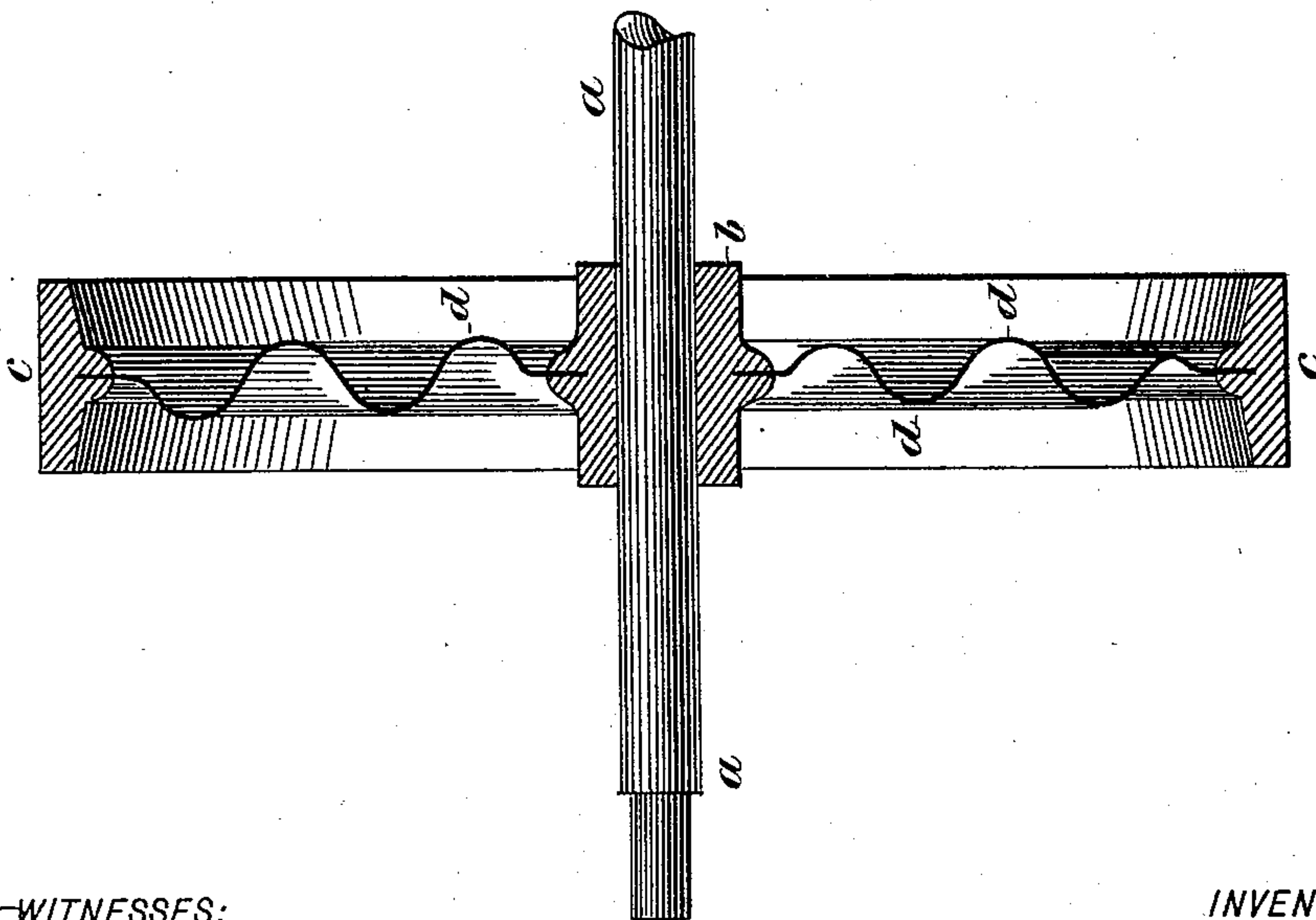


Fig. 1.



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UNITED STATES PATENT OFFICE.

HUBERT CLAÜS, OF THALE, GERMANY.

ELASTIC WHEEL.

SPECIFICATION forming part of Letters Patent No. 488,539, dated December 27, 1892.

Application filed August 18, 1892. Serial No. 443,422. (No model.)

To all whom it may concern:

Be it known that I, HUBERT CLAÜS, a subject of the German Emperor, residing at Thale-on-the-Harz, in the Kingdom of Prussia, Germany, have made a new and useful Improvement in Elastic Connections for Rotating Bodies, of which the following is a specification.

The object of my invention is to produce an elastic connection between the outer periphery of a drum or wheel and its hub or axial connection, whereby less weight in its construction is obtained, without any diminution of supporting strength, and at the same time great elasticity, durability and cheapness of construction are combined.

The invention consists in the construction and arrangement of a thin metallic corrugated or fluted sheet of metal between the rim or outer periphery of a wheel or drum and its hub, and the combination and arrangement of the parts thereof substantially as hereinafter described and finally embodied in the claims.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts, Figure 1 is a cross-section on the line 1—1 of Fig. 2; Fig. 2 is a plan view of a completed wheel showing my improvement.

In said drawings *a* indicates an axle upon which the wheel turns; *b* is the hub of the wheel, and *c* its outer periphery or rim. Between the rim and the hub is arranged and secured a thin metallic plate *d* preferably of sheet steel. This plate is corrugated or fluted, as shown in Fig. 1, the edges of said plate being made flat and secured in the hub and

periphery by casting the same thereon or in any desired manner, so that the plate may be securely held in position in the wheel. This plate *d* can be struck up by a die or molded in any preferred manner, and the number and depth of the corrugations can be varied as desired, according to the size of the wheel or drum and the purpose for which it is to be used.

In the drawings I have shown my improvement as applied to an ordinary carriage-wheel, but it is equally applicable to any rotating drum wherever employed.

By the use of my improvement, a wheel thus constructed is of considerably less weight, and owing to the great elasticity caused by the springy quality of the inserted corrugated plate *d*, there will be less wear upon the parts and consequently greater durability.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. As a new article of manufacture a wheel constructed as herein described, and consisting of a corrugated or fluted elastic plate interposed between the rim and the hub of the wheel and provided with flat edges and secured thereto, substantially as described.

2. In a wheel or drum, the combination with the hub and outer periphery of a corrugated elastic metallic plate provided with flat edges and secured thereto, substantially as described and for the purposes set forth.

HUBERT CLAÜS.

Witnesses:

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