

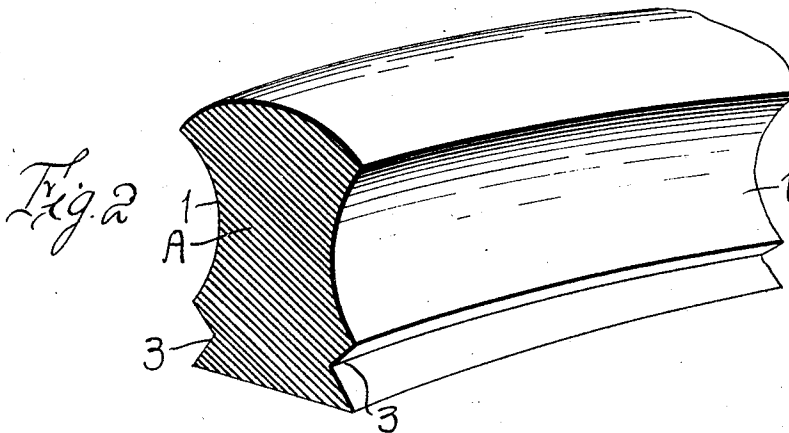
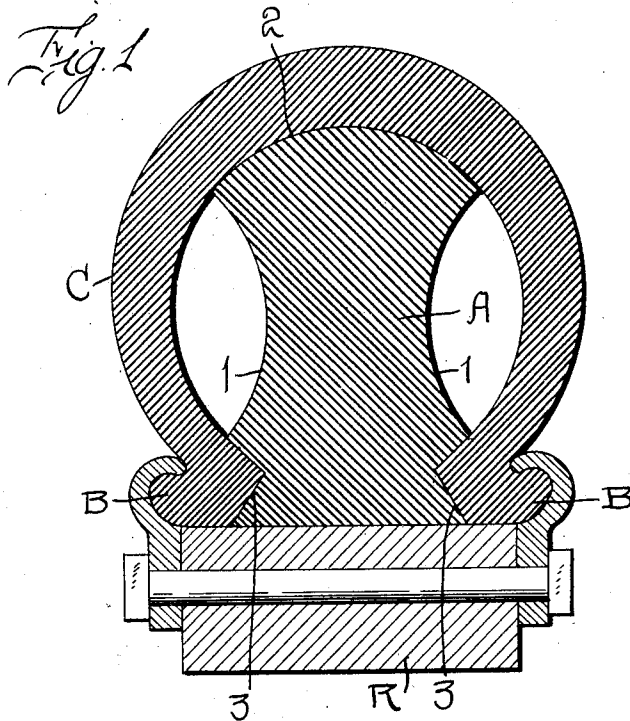
M. E. BAXTER.

TIRE.

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1,237,155.

Patented Aug. 14, 1917.



Inventor

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UNITED STATES PATENT OFFICE.

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1,237,155.

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To all whom it may concern:

Be it known that I, MORRIS E. BAXTER, a citizen of the United States, residing at Steubenville, in the county of Jefferson and State of Ohio, have invented certain new and useful Improvements in Tires, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in tires and it is an object of the invention to provide a novel and improved core which may be readily and conveniently applied to a tire casing of a well known type in order to produce a cushion tire.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved tire whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a transverse sectional view taken through a tire constructed in accordance with an embodiment of my invention and in applied position; and

Fig. 2 is a fragmentary view in perspective of my improved core as herein embodied.

As disclosed in the accompanying drawings, C denotes a tire casing of any ordinary or preferred type and which is generally employed in connection with inner tubes, and positioned within said casing is an annular core A formed of soft rubber and which has its opposite side faces provided with the annular depressions or grooves 1, while the peripheral portion of the core A intermediate the grooves 1 is adapted to be secured, as at 2, by cement or other adhesive material to the inner wall of the casing C at the tread portion thereof. As is particularly illustrated in Fig. 1, it is to be noted that the tread or connected portion of the core A is of a width substantially equal to the tread portion of the casing C and that the annular depressions or grooves 1 are of a width substantially equal to the side faces of the casing C. It is also

thought to be self-evident that the annular grooves 1 serve to grip the inner margins of the casing C to permit compression of the core A when the tire is subjected to load.

The opposite sides of the core A immediately adjacent the inner edges of said grooves 1 are provided with the annular recesses 3 substantially V-shape in cross section and into which are adapted to be snugly fitted the inner portions of the free margins of the casing C and for which purpose said inner marginal portions are also substantially V-shape in cross section.

It is thought to be self-evident that when a rim is clenched upon the beads B of the casing, the inner edge portion of the core A will be effectively maintained in applied position.

It is also to be noted that the inner portion of the core A extends between the free margins of the casing C and is adapted to contact directly with the rim R of a wheel so that the pressure on the core when the tire is under load will be directly between the tread portion of the casing C and the rim of the wheel.

From the foregoing description, it is thought to be obvious that a tire constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as hereinafter claimed.

I claim:

In combination with a tire casing, an annular core positioned therein and provided in its sides with annular recesses, the periphery of the core intermediate the outer edges of the recesses being of a width substantially equal to the width of the tread portion of the casing and secured to the inner face of the tread portion, each of the annular recesses of the core being of a width substantially equal to the width of the adjacent side of the casing, the inner portions of the core intermediate the inner edges of the annular recesses and the inner

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margin of the core being provided with annular recesses with which the marginal portions of the casing are adapted to interlock, the outer faces of said recesses being of a width equal to the width between the inner edges of the first named annular recesses and the inner margin of the core.

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

MORRIS E. BAXTER.

Witnesses:

D. F. VORHEES,
IRA BLACKBURN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."