No. 792,468. PATENTED JUNE 13, 1905.

S. S. SCOTT.

VEHICLE WHEEL.

APPLICATION FILED NOV. 25, 1904.

FIG. I.

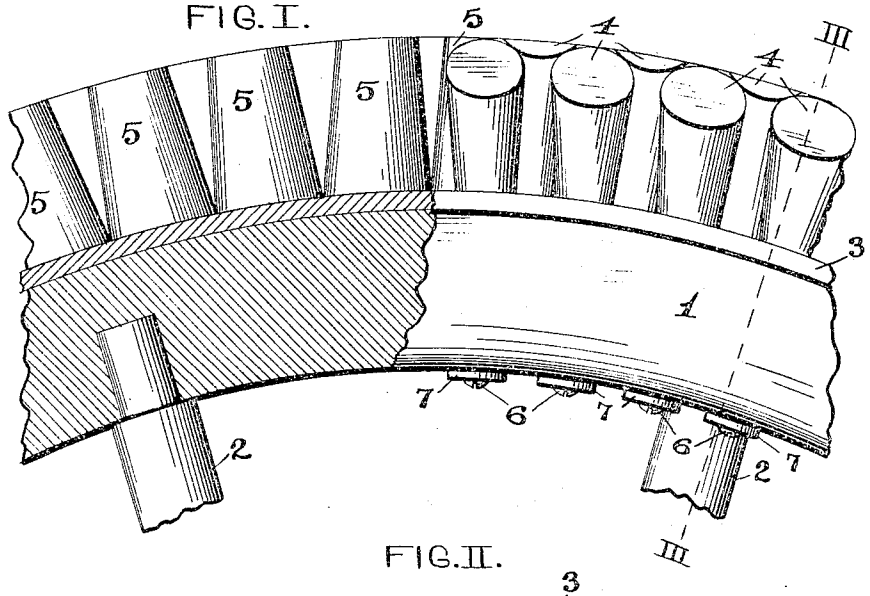


FIG. II.

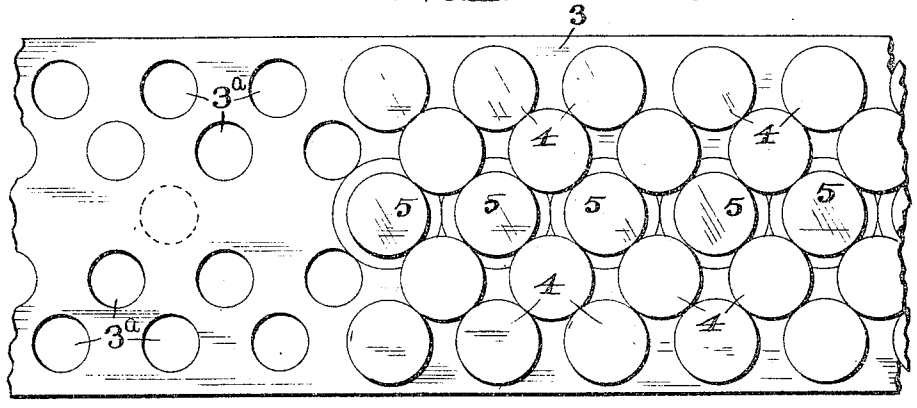
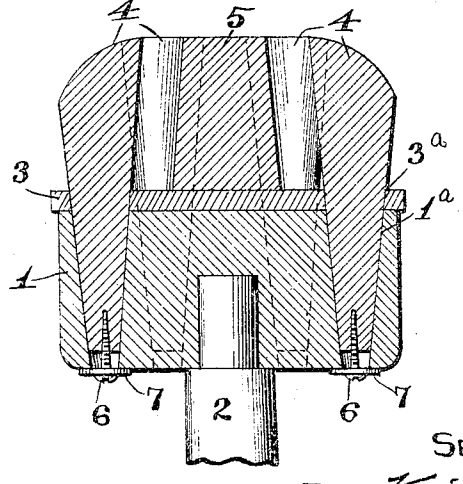


FIG. III.



ATTEST.

H. J. Fletcher.

Blanche Hogan.

INVENTOR.

SEMPLE S. SCOTT.

BY Wright Bro

ATTY'S.

No. 792,468. Patented June 13, 1905.

UNITED STATES PATENT OFFICE.

SEMPLE S. SCOTT, OF ST. LOUIS, MISSOURI.

VEHICLE-WHEEL.

SPECIFICATION forming part of Letters Patent No. 792,468, dated June 13, 1905.

Application filed November 25, 1904. Serial No. 234,183.

To all whom it may concern:

Be it known that I, SEMPLE S. SCOTT, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Vehicle-Wheels, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a vehicle-wheel intended more particularly for use on heavy motor-trucks, such as wheels equipped with rubber tires for cushioning effect are at present used upon, the object of the invention being to provide a noiseless tread for a wheel of a character that will not be subject to damage by puncturing and the manufacture of which is much less expensive than the cost of production of rubber tires.

Figure I is a view, partly in elevation and partly in section, of a fragment of my wheel. Fig. II is a face view of a part of the tread portion of my wheel. Fig. III is a cross-section taken on line III III, Fig. I.

1 designates the felly of the wheel, and 2 the spokes set into the felly.

3 is a metal band encircling the felly 1, which is preferably of wood, but may be of metal or any other suitable material.

The felly 1 and band 3 are provided throughout with pluralities of perforations 1^a and 3^a, preferably of conical form, as seen in Fig. III. 4 represents pegs, preferably of wood and also preferably of conical shape, corresponding in cross-sectional shape to the shapes of the perforations 1^a and 3^a. These pegs are introduced into the felly and band of the wheel by passing them first through the perforations in the band and into the perforations in the felly, the pegs being of sufficient length to project beyond the perimeter of the band, as most clearly seen in Figs. I and III.

5 represents filler-pegs, preferably of conical shape, that are positioned centrally between the innermost circular rows of pegs 4 and in line with the wheel-spokes 2. These filler-pegs are disposed reversely with respect to the disposal of the outer rows of pegs 4, so that when made of conical shape their larger ends will be innermost and the smaller ends outermost, as seen in Fig. III. The filler-pegs rest upon the band 3 and are not extended through the band and felly, for the reason that if they were so extended perforations for their reception would necessarily be present in line with the wheel-spokes, and as a consequence the wheel-felly would be so weakened as to be incapable of withstanding strain at the locations of the spokes. The filler-pegs are utilized merely for the purpose of filling the central space between the outer rows of pegs into which the main pegs may not be placed with safety for the reasons stated.

During the practical use of my wheel the pegs 4 are constantly held seated in the perforations in which they are positioned by reason of the tread-pressure thereagainst during the rotation of the wheel against the ground, and there is therefore no liability of their falling out.

Although I do not consider it essential to utilize any means for securing the pegs 4 in the felly and band of my wheel, such means may be used and may consist of screws 6, set into the inner ends of the pegs and surrounded by washers 7, that bear against the inner face of the felly, as seen in Figs. I and III.

I claim as my invention—

1. A vehicle-wheel having a felly provided with a plurality of perforations, and a plurality of pegs seated in said perforations, said pegs being disposed entirely across the wheel at its perimeter and forming the tread of the wheel.

2. A vehicle-wheel having a felly provided with a plurality of perforations, and a plurality of wooden pegs seated in said perforations.

3. A vehicle-wheel having a felly provided with a plurality of perforations, and a plurality of conical pegs seated in said perforations.

4. A vehicle-wheel having a felly provided with a plurality of perforations, and a plurality of conical wooden pegs seated in said perforations.

5. A vehicle-wheel having a felly provided with a plurality of perforations, a plurality of conical pegs seated in said perforations, and filler-pegs extending in a circular line between inner rows of the main pegs.

6. A vehicle-wheel having a perforated

felly, a perforated band surrounding said felly, and pegs seated in the perforations in said band and felly, said pegs being disposed entirely across the wheel at its perimeter and forming the tread of the wheel.

7. A vehicle-wheel having a perforated felly, a perforated band surrounding said felly, and conical pegs seated in the perforations in said band and felly.

8. A vehicle-wheel having a perforated felly, a perforated band encircling said felly, conical main pegs seated in the perforations in said band and felly, and conical filler-pegs located in a circular course between the innermost rows of said main pegs and having their larger ends innermost and resting against said band.

9. A vehicle-wheel having a felly provided with a plurality of perforations, pegs seated in said perforations and means for securing said pegs, said pegs being disposed entirely across the wheel at its perimeter and forming the tread of the wheel substantially as set forth.

10. A vehicle-wheel having a felly provided with perforations, pegs seated in said perforations, and extending into said felly, and means secured to the inner ends of said pegs for holding them in the perforations, substantially as set forth.

11. A vehicle-wheel having a felly provided with a plurality of perforations, pegs seated in said perforations, screws seated in the inner ends of said pegs, and washers surrounding said screws and bearing against the inner faces of said felly, substantially as set forth.

SEMPLE S. SCOTT.

In presence of—
NELLIE V. ALEXANDER,
BLANCHE HOGAN.