

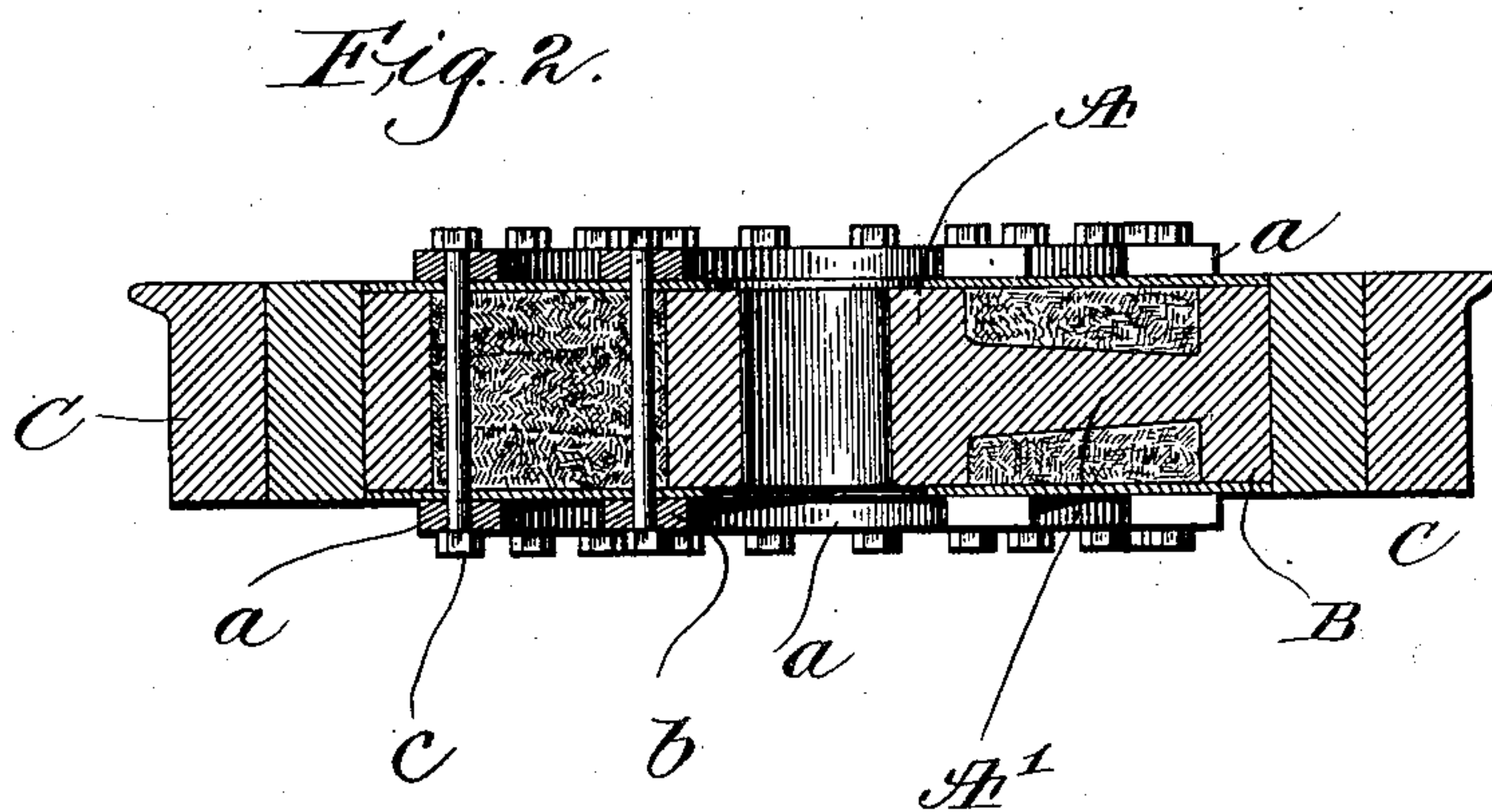
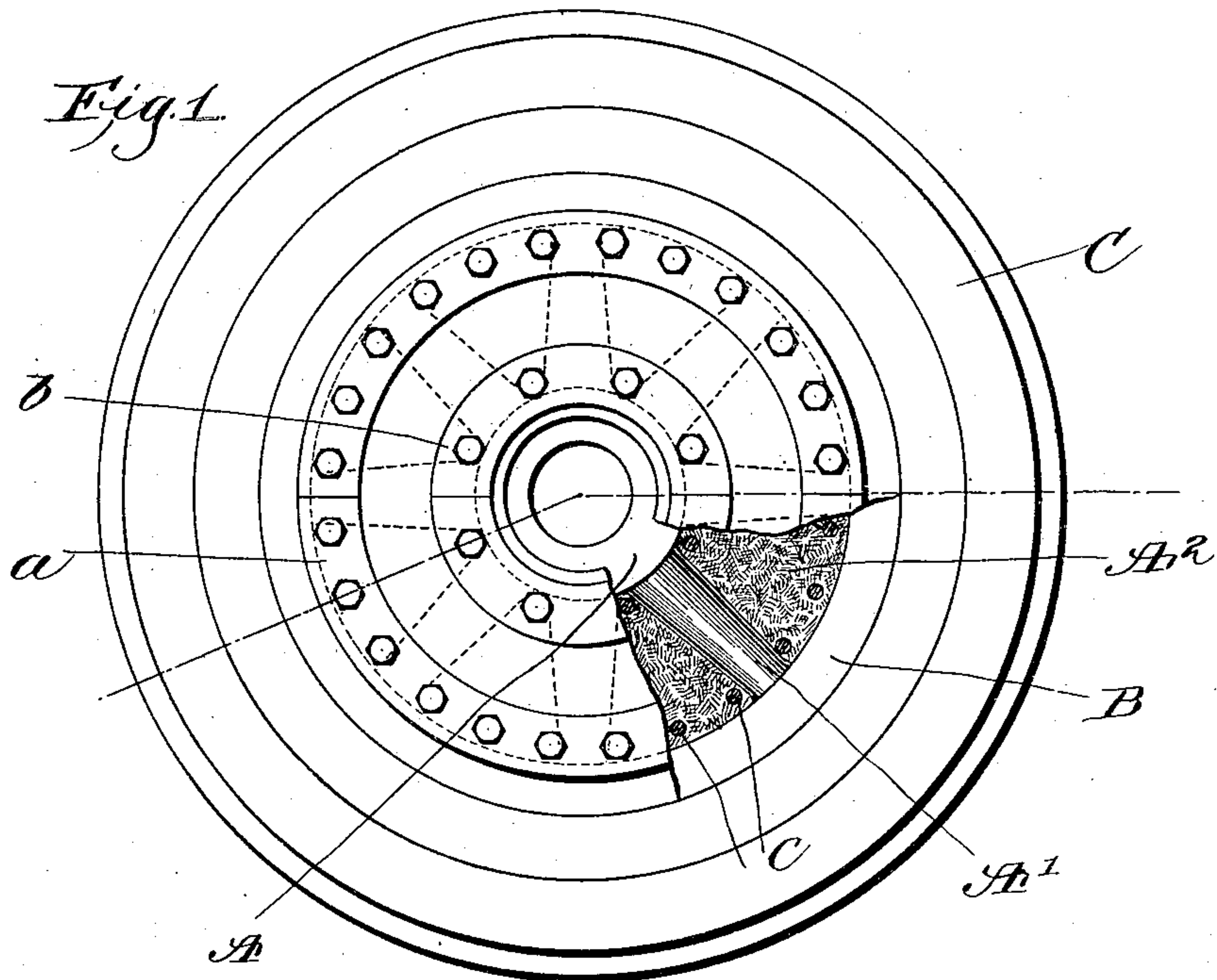
No. 734,113.

PATENTED JULY 21, 1903.

H. BACON.
CAR WHEEL.

APPLICATION FILED OCT. 30, 1902.

NO MODEL.



Witnesses,
H. C. Linsford
D. W. Linton

Inventor,
Herbert Bacon,
by Lewis Gregory
Attys.

UNITED STATES PATENT OFFICE.

HERBERT BACON, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO PEIRCE J. GRACE, OF BOSTON, MASSACHUSETTS.

CAR-WHEEL.

SPECIFICATION forming part of Letters Patent No. 734,113, dated July 21, 1903.

Application filed October 30, 1902. Serial No. 129,390. (No model.)

To all whom it may concern:

Be it known that I, HERBERT BACON, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Car-Wheels, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a novel car-wheel whereby the noise of cars running on elevated structures may be greatly lessened or reduced to the minimum.

In accordance with my invention I have "damped" the vibrations of the metal of the body of the wheel by, as herein shown, packing into spaces or pockets at the face of the metallic wheel between the usual radial ribs or spokes a fibrous material, preferably oakum, flax, cotton, or wool. Preferably this fibrous material, of whatever nature, may be cut more or less short and mixed with a suitable binder or substance that will not deteriorate rapidly or melt or become liquid by any heat to which the wheel is subjected in use on the track, said binder holding the fibrous material in place in the pockets of the wheel between the spokes and in substantially the condition in which it was applied to the wheel.

Figure 1 in side elevation shows a car-wheel embodying my invention in one good and simple form, part of the wheel being broken out; and Fig. 2 is a section through the wheel.

The hub or body A, having spokes A' to leave between them spaces or pockets, and the circular extension B, surrounded by a steel tire C, are and may be of any usual shape. In the spaces or pockets between the spokes A', I ram or force what I have designed

as a "damper," it consisting of fibrous material—such, for instance, as oakum, flax, cotton, or wool—preferably cut up in short lengths and having incorporated with it a binder, which may be of flour and glue mixed to a paste. The material comprising the damper when incorporated by pressure or otherwise into the spaces or pockets of the wheel may be held therein by the application to the sides of the wheel of retaining-plates *a b*, preferably of non-metallic material—such, for instance, as so-called "hard-fiber" or paper-board—the retaining-plates being held in position by any usual or suitable bolts *c*.

I have found in practice that the sonority of a wheel packed with a damper such as described is in a very great measure destroyed and that with such a wheel the terribly objectionable noise made by cars running on an elevated structure is reduced to a minimum, and also the fibrous material packed as described in the spaces or pockets of the wheel will stand without deterioration any heat to which the wheel in practice will be subjected.

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

A car-wheel presenting at its face spaces or pockets, and having connected therewith non-metallic retaining-plates, and fibrous material packed in said spaces or pockets behind said plates.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT BACON.

Witnesses:

GEO. W. GREGORY,
EDITH M. STODDARD.