

(No Model.)

G. H. EVERSON.
METALLIC WHEEL.

No. 409,945.

Patented Aug. 27, 1889.

Fig-1.

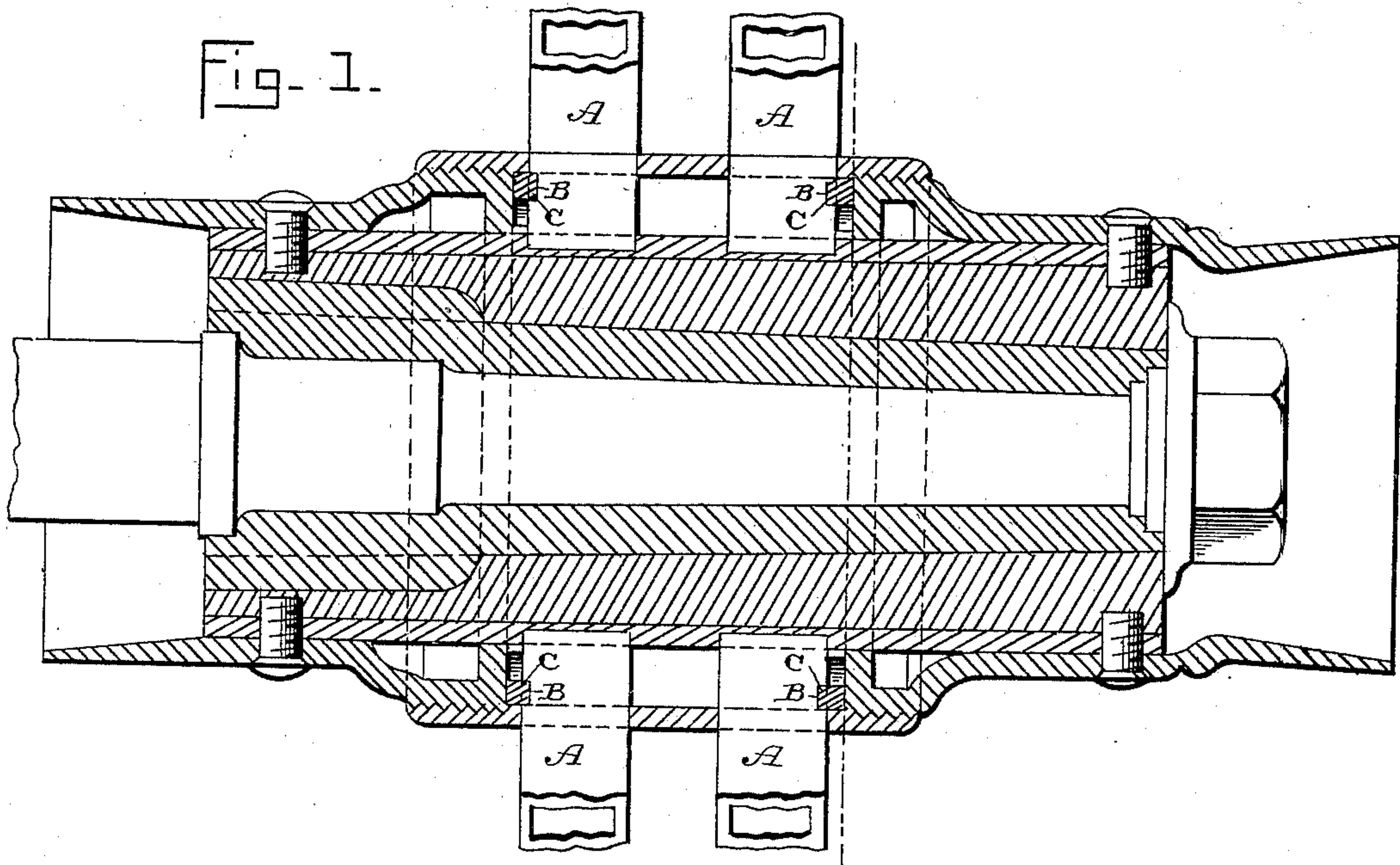
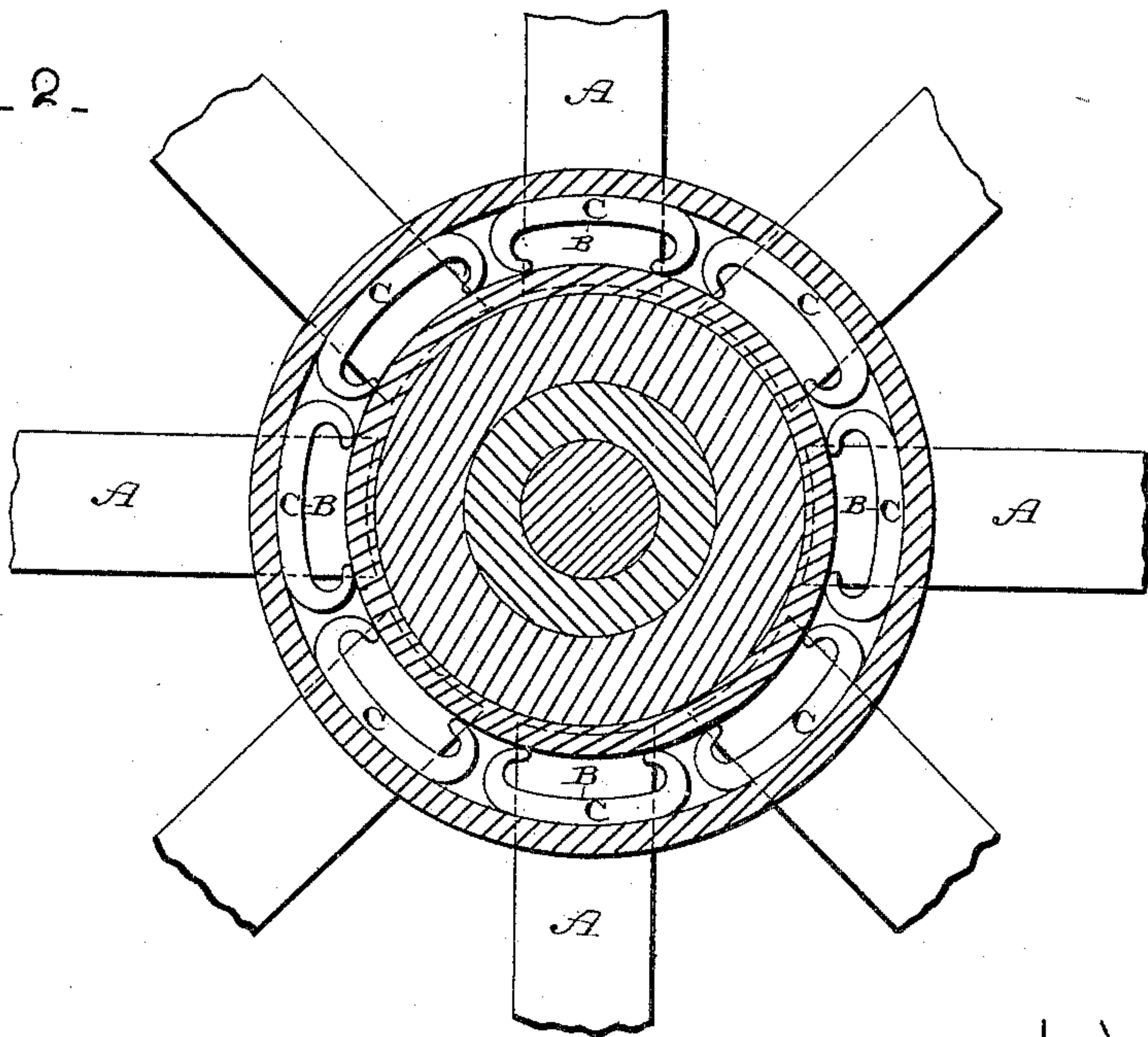


Fig-2.



Witnesses:

E. P. Ellis,
J. M. Nesbit.

Inventor:

Geo. H. Everson,
per
J. A. Lehmann, atty.

UNITED STATES PATENT OFFICE.

GEORGE H. EVERSON, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO THE
ROLLED STEEL CARRIAGE WHEEL COMPANY, OF TRENTON, NEW JERSEY.

METALLIC WHEEL.

SPECIFICATION forming part of Letters Patent No. 409,945, dated August 27, 1889.

Application filed May 13, 1889. Serial No. 310,532. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. EVERSON, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented certain
5 new and useful Improvements in Metallic
Wheels; and I do hereby declare the follow-
ing to be a full, clear, and exact description of
the invention, such as will enable others
skilled in the art to which it pertains to make
10 and use it, reference being had to the accom-
panying drawings, which form part of this
specification.

My invention relates to an improvement in
metallic wheels; and it consists in the com-
15 bination of the spokes having notches made
in their sides, with short bent springs, which
serve both to lock the ends of the spokes in-
side of the hub and to give the wheel the
requisite amount of elasticity, as will be more
20 fully described hereinafter.

The object of my invention is to apply to
the inner end of each of the spokes inside of
the hub an elastic locking device, so that the
wheel will be given a greater amount of elas-
25 ticity than can be imparted by the rigid lock-
ing devices which have heretofore been em-
ployed for this purpose.

Figure 1 is a vertical longitudinal section
of a hub which embodies my invention. Fig.
30 2 is a vertical cross-section of the same.

The construction of the hub here shown
and described is the same as that which is
shown in another application, which bears
Serial No. 305,749, and hence need not be more
35 fully described in this connection, because
what is here shown is intended as an improve-
ment upon that application. The inner end
of each of the spokes A has a notch or recess
B formed in its side just inside of the metal-

lic shell of the hub, and applied to the side of 40
each of these spokes is a curved metallic
spring C, which have their upper thicker por-
tions to catch in the recesses B, while their
bent ends rest upon the central portion of the
hub, as shown. Each one of these springs C 45
serves the double purpose of locking the
spoke in position and of imparting to the hub
the requisite amount of elasticity. Every
spoke being provided with a spring-bearing,
as here shown, the wheels are given such an 50
amount of elasticity that the danger of any
of the parts breaking is greatly lessened, and
a much more pleasant and elastic movement
is given to the vehicle as it is moved along.

Having thus described my invention, I 55
claim—

1. The combination, with the hub and the
notched metallic spokes, of separate springs,
which are applied to the spokes for the pur-
pose of securing them in position in the hub 60
and imparting to the wheel the necessary
amount of elasticity, substantially as shown
and described.

2. The combination, with the hub, of the
notched metallic spokes A, with the separate 65
curved springs C, which catch in the notches
in the sides of the spokes and have both of
their ends to bear against a portion of the
hub, whereby each spring is made to act as a
spring to its spoke and as a means of holding 70
its spoke in position, substantially as de-
scribed.

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

GEORGE H. EVERSON.

Witnesses:

C. A. CUBBAGE,
WINTHROP DEAN.