

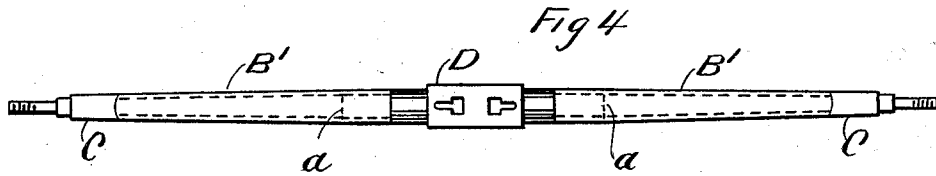
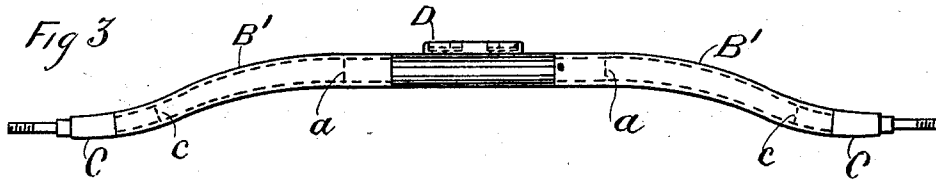
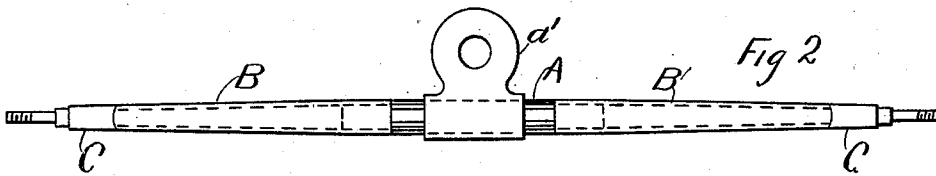
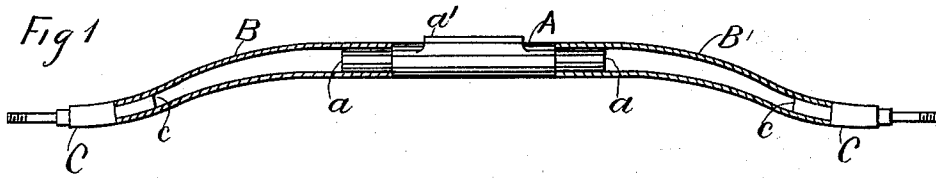
No. 665,883.

Patented Jan. 15, 1901.

G. DAMON & E. S. PEETS.
AXLE.

(Application filed Oct. 1, 1900.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE DAMON, OF CRANFORD, NEW JERSEY, AND ELIAS SPENCER
PEETS, OF NEW YORK, N. Y.

AXLE.

SPECIFICATION forming part of Letters Patent No. 665,883, dated January 15, 1901.

Application filed October 1, 1900. Serial No. 31,646. (No model.)

To all whom it may concern:

Be it known that we, GEORGE DAMON, a resident of Cranford, in the county of Union and State of New Jersey, and ELIAS SPENCER PEETS, a resident of the borough of Manhattan, in the city and county of New York and State of New York, citizens of the United States, have invented certain new and useful Improvements in Axles, of which the following is a specification.

The object of this invention is the production of axles for vehicles which will be of uniform strength throughout their whole lengths and to which can easily be secured the fifth-wheel and back spring connections.

Figure 1 shows a fragmentary vertical section of the axle through its longitudinal axis. Fig. 2 represents a top view of Fig. 1. Fig. 3 is an elevation of the axle. Fig. 4 shows a top view of Fig. 3.

At A and D are shown solid center connections, to which are secured the tubular tapering arms B and B', and to the latter are fastened the axle-arms C. The solid center connections are turned down to small diameters at *a* to allow the said portions to enter the tubular tapering arms B and B'.

The axle-arms C are turned down at *c*, so as to also enter the tubular tapering arms B B',

the whole constituting axles the middle portions of which are heavier than the end portions, thus obtaining axles of uniform strength throughout their lengths.

On Figs. 1 and 2 the solid center connection A is shown forged or cast with the lower half *a'* of a fifth-wheel, and in Figs. 3 and 4 a back spring connection D is shown connected to the tapering tubular arms.

It is evident that the tubular tapering arms B B' can be either circular or elliptical in cross-section.

Having described our invention, we desire to secure by United States Letters Patent and claim—

Tubular tapering axles, comprising solid center connections, tapering tubular arms secured to the center connections, and solid axle-arms fastened to the tubular arms, substantially as described.

Signed at New York, in the county of New York and State of New York, this 25th day of September, A. D. 1900.

GEORGE DAMON.
ELIAS SPENCER PEETS.

Witnesses:

AUGUST JOHNSTON,
WILLIAM P. FRANCL.