G. H. THOMPSON & G. P. MULDOON. Wooden Vehicle-Spring.

No. 198,321. Patented Dec. 18, 1877. Uras Nice. Edgard Fate

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE H. THOMPSON AND GEORGE P. MULDOON, OF OMAHA, NEBRASKA.

IMPROVEMENT IN WOODEN VEHICLE-SPRINGS.

Specification forming part of Letters Patent No. 198,321, dated December 18, 1877; application filed October 26, 1877.

To all whom it may concern:

Be it known that we, GEORGE H. THOMPSON and GEORGE P. MULDOON, of Omaha, in the county of Douglas and State of Nebraska, have invented a new and useful Improvement in Wooden Springs for Vehicles, of which the following is a specification:

Figure 1 is a side view of our improved spring, partly in section, to show the construction; and Fig. 2 is a top view of the

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish wooden springs for vehicles which shall be so constructed that they may be adjusted to sustain a greater or less load, which will recover their shape when the pressure is removed, and which shall be simple in construction, strong, and durable.

The invention will first be described in connection with the drawings, and then pointed out in claim.

A are two wooden spring-bars, the ends of which are inserted in cast-iron sockets B, where they are separated by small central tongues. C is a tension-rod, the ends of which

pass through the centers of the castings B, and have nuts D screwed upon the ends. The outer ends of the nuts D are square, so that they may be readily grasped with a wrench, and their inner parts are cylindrical, and fit into cylindrical sockets in the outer ends of the castings B, where they rest against spiral springs E, placed in the said sockets. The spiral springs E assist the springs A to recover their former position when the pressure is removed. By this construction the strength of the springs may be increased or diminished by adjusting the nuts D.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent—

The combination, with springs A, of the castings B, having in their outer ends sockets with spiral springs, the end-threaded rod C, and the adjusting-nuts D, all arranged as shown and described.

GEORGE HENNERY THOMPSON. GEORGE PATRICK MULDOON.

Witnesses:

JOHN T. BELL, GEO. M. O'BRIEN.