

O. JENNESS.  
Vehicle-Springs.

No. 149,483.

Patented April 7, 1874.

Fig. 1.

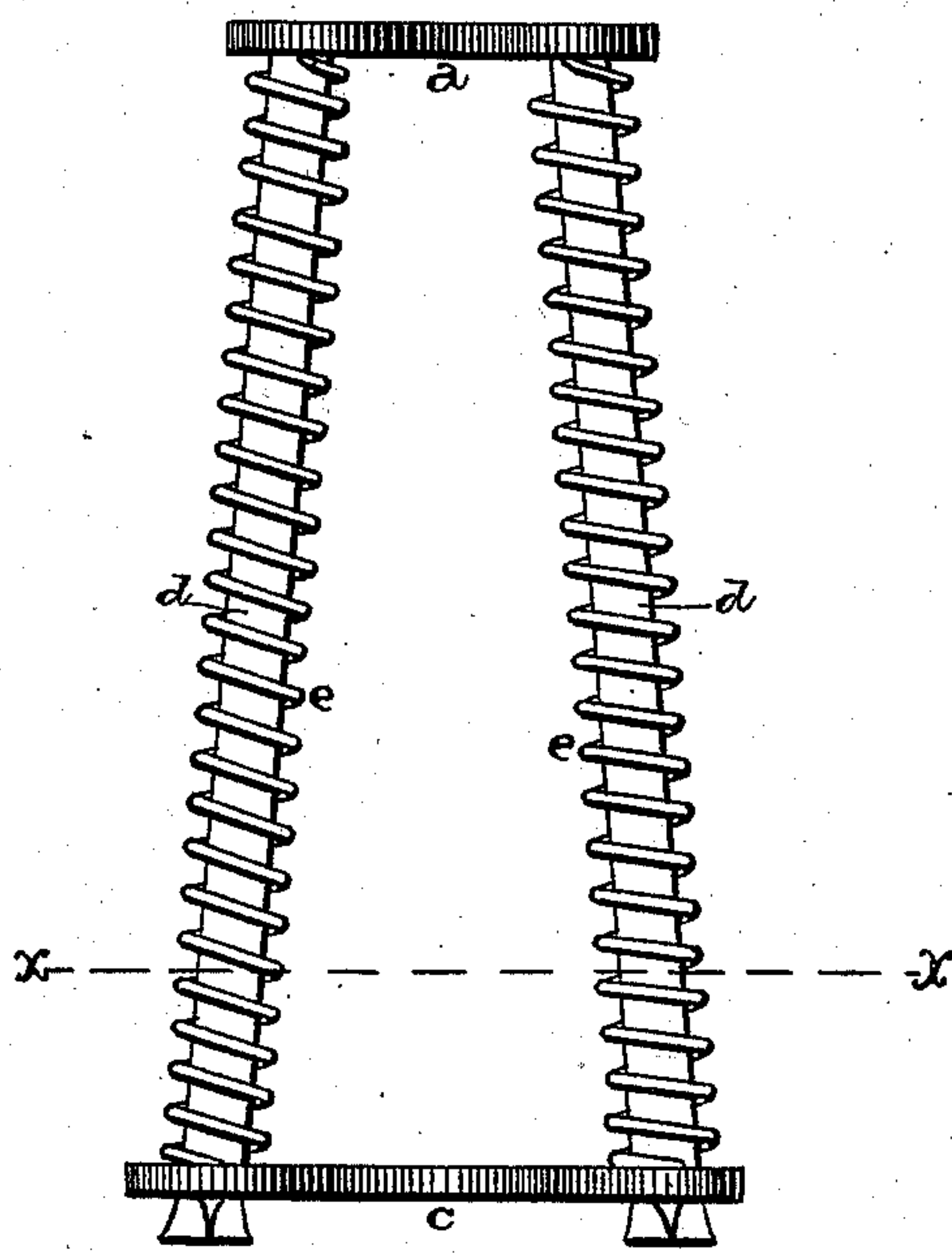
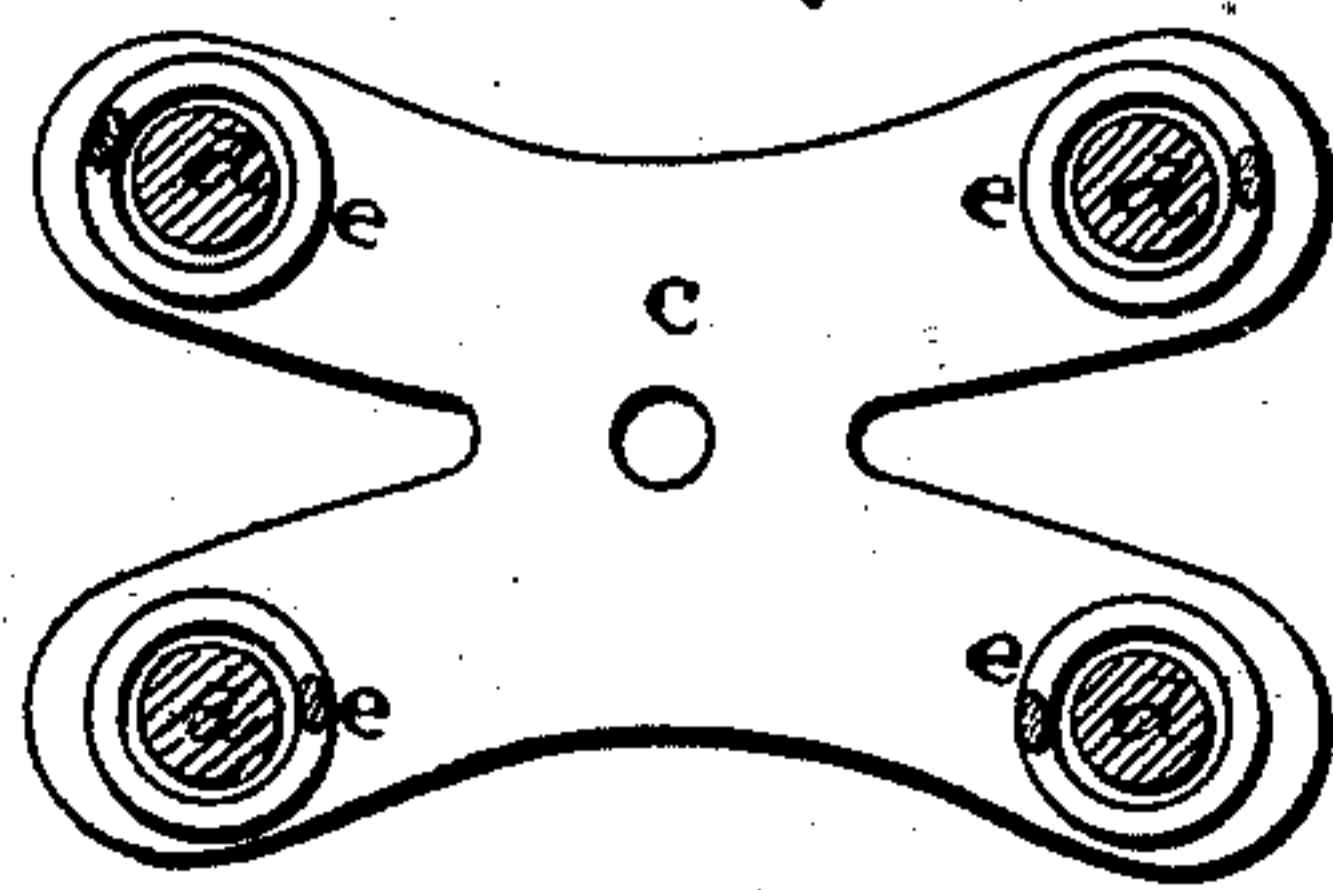


Fig. 2.



Witnesses:  
J. W. Garner.  
Edw. H. H. H.

Inventor:  
Orlando Jenness  
per  
F. A. Lehmann, Atty

# UNITED STATES PATENT OFFICE.

ORLANDO JENNESS, OF ALTON, NEW HAMPSHIRE.

## IMPROVEMENT IN VEHICLE-SPRINGS.

Specification forming part of Letters Patent No. **149,483**, dated April 7, 1874; application filed March 9, 1874.

*To all whom it may concern:*

Be it known that I, ORLANDO JENNESS, of Alton, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in Springs; and I do hereby declare the following 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 and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to an improvement in springs for vehicles; and it consists in an independent spring, which can be readily applied to vehicles of all kinds, and which is composed of a top and base plate, connected together by a number of rods, around which are placed coiled springs, the rods being made to move freely back and forth through the base-plate, whenever pressure is applied upon either plate, so as to bring the pressure upon the springs.

The accompanying drawings represent my invention.

*a c* represent two flat plates, of unequal size, which are connected together by rods *d* of suitable length, around which rods are placed coiled springs *e*. At their upper ends the rods, which may be of any desired number, are screwed or otherwise rigidly secured to the top plate *a*, while the lower ends of the rods pass down through the base-plate *c*, through which they freely play, and are enlarged below the plate, so as to prevent the plate from slipping off. The base-plate is made larger than the top plate, so that it will rest

upon the top of an axle, or lower part of the spring, and allow the lower ends of the rods to pass freely down their sides whenever a sufficient force is brought upon either plate to compress the springs.

This device is intended to be applied to vehicles of all kinds, and especially to those which are provided with elliptical springs, and in which there is about to be placed an unusually heavy load. Where the springs are placed over the axles in the usual manner, my device is placed in between the two parts of the springs, so as to ease the pressure upon them. Where the springs are placed upon the sides of the body, my device will be placed upon the tops of the axles, and support one or both ends of the body.

Each of the two plates has a hole made through its center to receive a stud or bolt of any kind, so as to hold it in position; and, as there is no need of nuts, the device can be applied or removed from a vehicle in a moment.

Having thus described my invention, I claim—

As an independent attachment to vehicles, a spring consisting of the top and base plates *a c*, rods *d*, which have a vertical play through one of the plates, and the coiled springs *e*, the parts being combined substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of March, 1874.

ORLANDO JENNESS.

Witnesses:

GEO. TILTON,  
NATHAN CHESLEY.