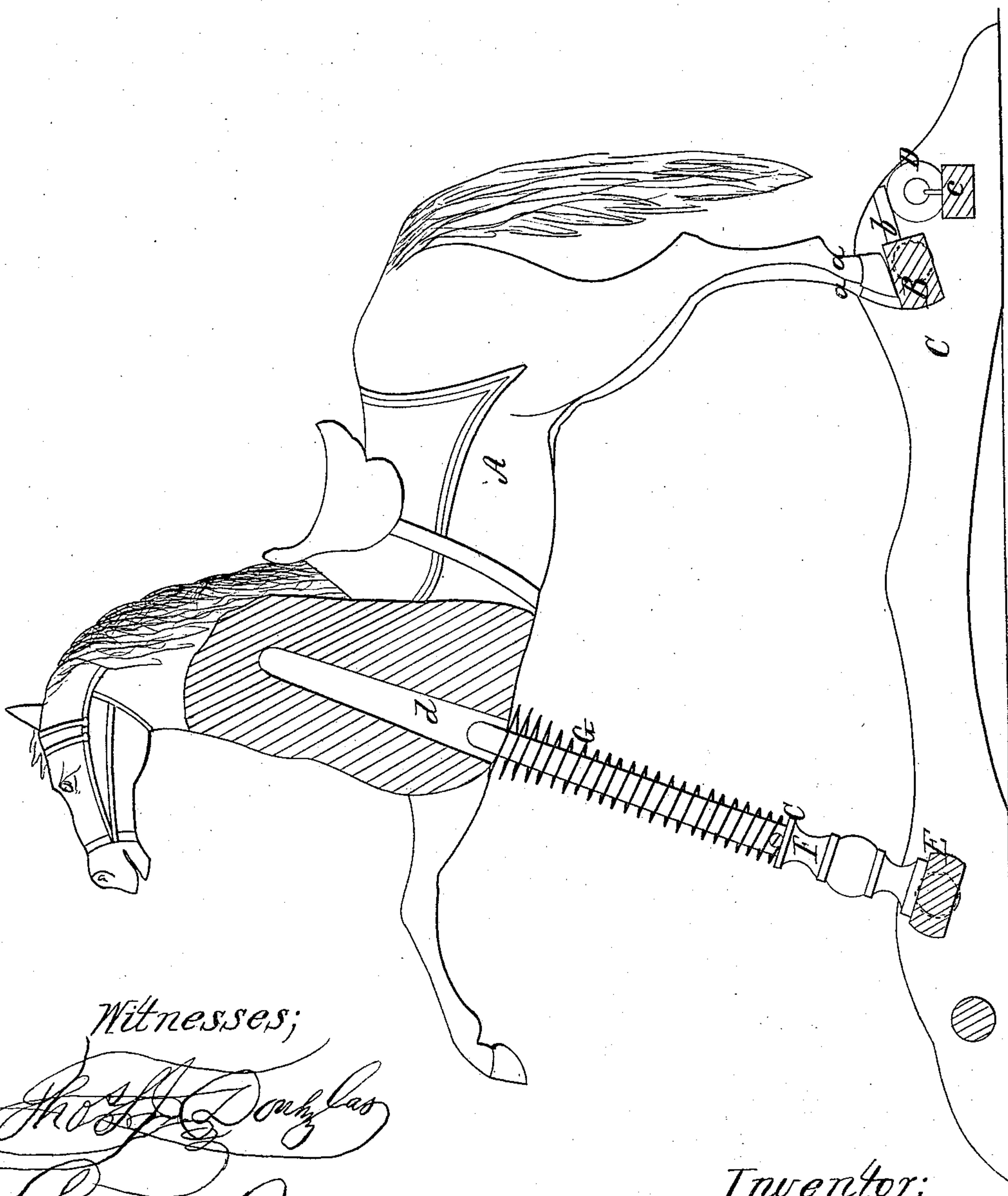


*C. B. Northrup,*

*Hobby Horse.*

*N<sup>o</sup> 42,960.*

*Patented May 31, 1864.*



*Witnesses;*

*Thos H Douglas*  
*Geo W Reed*

*Inventor;*

*C. B. Northrup*

# UNITED STATES PATENT OFFICE.

C. B. NORTHRUP, OF NEW YORK, N. Y.

## IMPROVEMENT IN SPRING ROCKING-HORSES.

Specification forming part of Letters Patent No. 42,960, dated May 31, 1864 ; antedated May 30, 1864.

*To all whom it may concern:*

Be it known that I, C. B. NORTHRUP, of the city, county, and State of New York, have invented a new and useful Improvement in Spring Rocking-Horses ; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, said drawing being a side view of my invention, partly in section.

This invention consists in applying a spiral spring to the horse and framing thereof, in such a manner that an agreeable rocking motion will be produced by a moderate effort of the rider, and at the same time a more durable and economical article obtained than those hitherto constructed, and are not attended with any danger to the rider in case of the breakage of the parts.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the horse, the rear legs, *a*, of which are secured to a rock-shaft, B, fitted in the back part of a framing, C, which supports the horse. This rock-shaft has a bar, *b*, projecting a short distance from its back, and bearing upon a spring, D, of india-rubber or other suitable material, attached to a cross-bar, *c*, of the framing C.

In the front part of the framing C there is fitted another rock-shaft, E, to which a rod, F, is rigidly attached, said rod passing upward into a hole, *d*, in the front part of the horse, and upon the rod F there is placed a spiral spring, G, the lower end of which rests upon a shoulder, *e*, at the lower part of the rod F, and the upper end bearing against the under side of the horse, as shown plainly in the drawing.

The spiral spring G may be constructed of steel, iron, or composition, and may be of conical, bi-conical or cylindrical form. This spring has a tendency to keep the front part of the horse elevated, and when the rider is on the horse a very slight effort is required on the part of the former to give a rocking or vibrating movement to the latter. The spring D serves as a check to the upward movement of the horse, and at the same time serves to give an impetus to its downward movement. The rock-shaft E admits of the rod F working freely in the hole *d* in the horse, and in case of the breaking of the spring the rod F will hold the horse or prevent its falling, so that the rider is in no danger of being injured.

The coil and flat springs, which are used with spring rocking-horses hitherto constructed, are quite liable to break or become "set," in consequence of the difficulty of properly tempering them, and in case of breakage the horse falls and the rider is in danger of being injured.

My invention may be constructed at a less cost than those now in use, is more simple, and easily repaired if injured or deranged by use.

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

The spiral spring G, fitted on a rod, F, which is attached to a rock-shaft, E, in the framing C, the rod F working in a hole, *d*, in the horse, and said parts being used with or without the check-spring D, substantially as and for the purpose herein set forth.

C. B. NORTHRUP.

Witnesses:

THOS. S. J. DOUGLAS,  
GEO. W. REED.