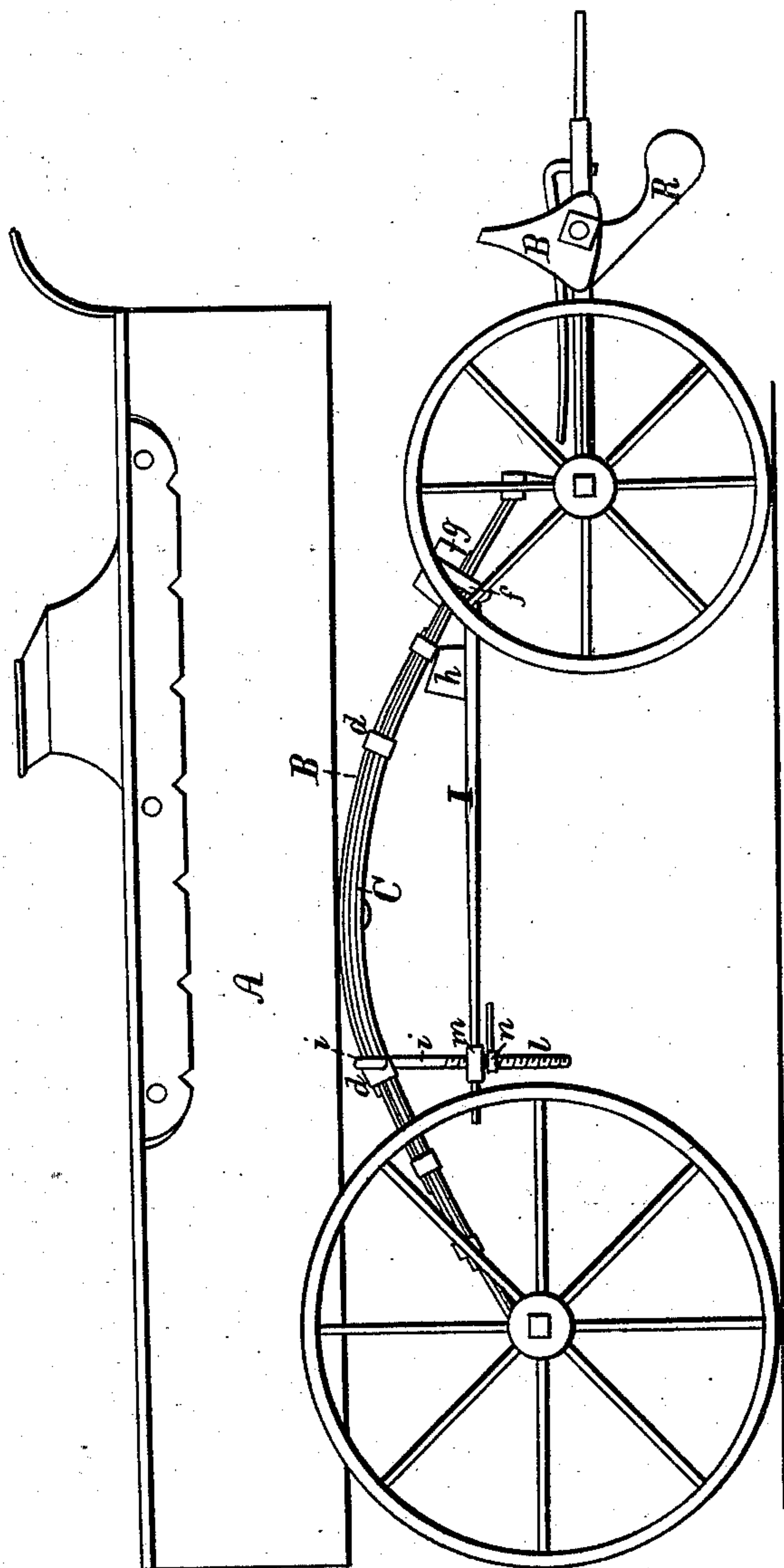


J. D. VAN HOEVENBERGH.

Spring Adjuster.

No. 83,343.

Patented Oct. 20, 1868.



Witnesses:  
Rd Turner  
J. G. Day

Jas. D. Van Hovenbergh,  
 Atty.  
 J. S. Brown

# United States Patent Office.

JAMES D. VAN HOEVENBERGH, OF KINGSTON, NEW YORK

*Letters Patent No. 83,343, dated October 20, 1868.*

## IMPROVED SPRING-ADJUSTER.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, JAMES D. VAN HOEVENBERGH, of Kingston, in the county of Ulster, and State of New York, have invented a new and improved Spring-Adjuster for carriage and other springs; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making part of this specification, and representing a side view of a wagon, with the spring-adjuster applied to one of its springs.

The purpose of this instrument is to take the bend out of carriage and other springs when bent, or to reset them into form, when sprung out of shape. The instrument effects this purpose on carriage and wagon-springs, without removing them from the carriage or wagon, or marring the paint thereon.

The construction and operation of the spring-adjuster are substantially as follows:

A lever, *l*, has its fulcrum at one end, where it is pivoted to a shackle-link, *f*, that is put around the spring near the bent place. A fulcrum-block, *g*, is applied to the spring, for the link *f* to bear upon, so as not to strain the spring at that place.

A movable block, *h*, is applied between the lever and the bent part of the spring. The other end of

the lever extends through or is attached to a block *m*, which slides up and down on the shank of a hook, *i*, which is hooked around the spring, or some other support, in the proper position for action. The hook has a screw-thread, *l*, on its shank, and a nut, *n*, (with a handle, if preferred,) to turn thereon. On turning the nut, the lever is operated, exerting a powerful action on the spring where the block *h* bears, sufficient to reset it into its proper form. The instrument is then readily removed.

The adjuster is simple, inexpensive, and readily applied, and is sufficiently compact to be carried about with a wagon, when occasion may seem to require.

What I claim as my invention, and desire to secure by Letters Patent, is—

The improved spring-adjuster above described, its several parts being arranged, and operating together, substantially as herein specified.

The above specification of my improved spring-adjuster, signed by me, this 15th day of May, 1868.

J. A. D. VAN HOEVENBERGH.

Witnesses:

J. S. BROWN,  
EDM. F. BROWN.