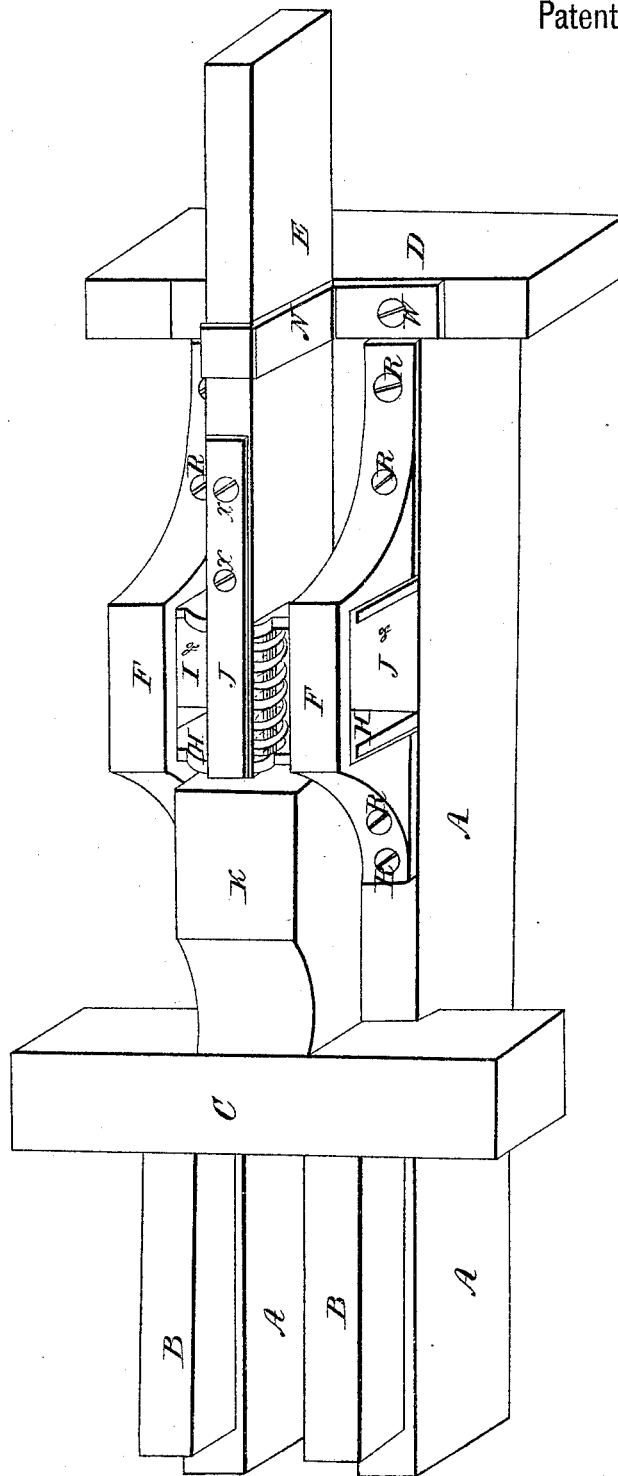


R. LEVINGTON.

Car Bumper.

No. 45,927.

Patented Jan. 17, 1865.



Witnesses:

Daniel C. Smith
Frances A. Smith

Inventor:

Robert Levington

UNITED STATES PATENT OFFICE.

ROBERT LEVINGTON, OF MONROE, MICHIGAN.

IMPROVED BUMPER-SPRING.

Specification forming part of Letters Patent No. **45,927**, dated January 17, 1865.

To all whom it may concern:

Be it known that I, ROBERT LEVINGTON, of Monroe, in the county of Monroe and State of Michigan, have invented a new and useful improvement in protecting the bumper-springs and their necessary appliances to railroad-cars from breaking when the cars strike together; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in attaching a protector to the bed of a car-body to serve as a bumper, and also to protect the spring that is attached to the draft-bar from any unnecessary strain when the cars run together, all of which is clearly described in the following specification.

The accompanying drawing is in perspective, representing its several parts—viz., beams A A, ties C and D, stays B B, cross-bars H and L, spiral spring M, yokes F F, yoke J, yoke N, protector K, and draw-bar E.

The beams A A, ties C and D, and stays B B are all framed and bolted together so they can be fastened to the bed of a car-body in a proper position for the connection to be made from one car to another. The yokes F F are attached to the beams A A by means of the

bolts R R in a position to receive the end of the cross-bars H and L in the slots I I. The forward end of the draw-bar E is attached to the tie D by means of yoke N, which is attached thereto by means of bolt W. The back end of the drawer E has the yoke J attached to it by means of the bolts X X in a position to form a slot through which the cross-bars H and L pass, and in which the spring M is placed between said bars.

I will describe the operation of my protector as follows: When the cars are in motion, on being suddenly stopped, they strike with great force against each other, thereby forcing the draw-bar E back until the yoke J strikes the protector K, at O, thereby protecting spring M, cross-bar H, and yokes F F from any unnecessary strain, and thereby saving a large amount of breakage.

After thus having described my invention, what I claim, and desire to secure by Letters Patent, is—

The protector K and the yoke J in combination therewith, as is clearly set forth and described.

ROBERT LEVINGTON.

Witnesses:

DANIEL C. SMITH,
FRANCES A. SMITH.