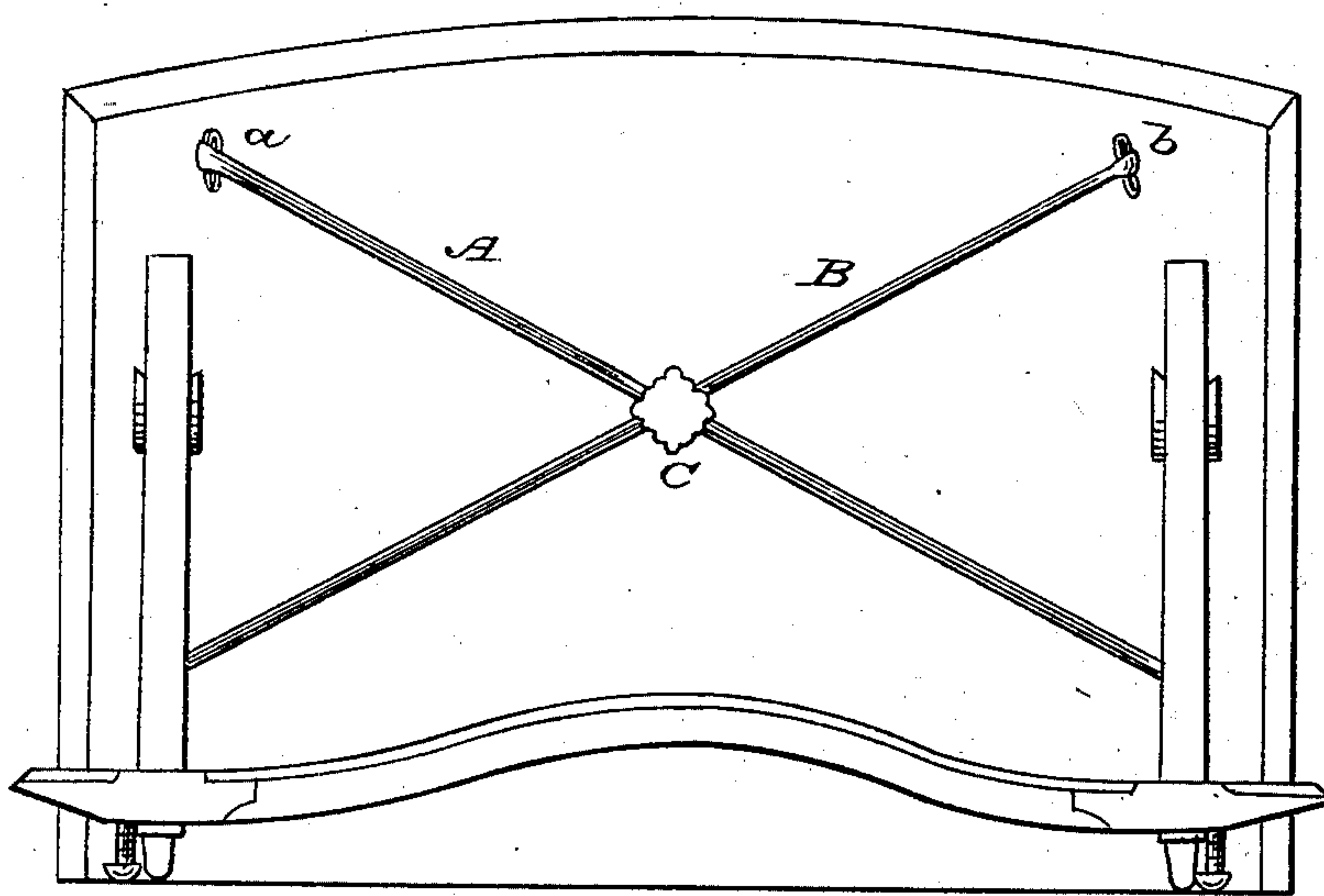


H. KILLAM.  
Cross Strap for Carriages.

No. 74,380.

Patented Feb. 11, 1868.



Witnesses  
*John A. Sumner*  
*a. j. Tibbitts*

Henry Killam  
Inventor  
By his Attorney,  
*John D. Earle*

# United States Patent Office.

HENRY KILLAM, OF NEW HAVEN, CONNECTICUT.

*Letters Patent No. 74,380, dated February 11, 1863.*

## IMPROVEMENT IN CROSS-STRAPS FOR CARRIAGES.

*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 HENRY KILLAM, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Cross-Straps for Carriages; and I do hereby declare the following, when taken in connection with the accompanying drawing, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents the rear of the carriage-body with the straps attached.

This invention relates to an improvement in what are called the cross-straps upon a carriage, that is to say, the straps, one end of each of which is attached upon the rear of the body, extending down across and attached to the springs or some portion of the under work.

Heretofore, these straps have been made from leather or other non-elastic material, and are arranged so as to be taut when the carriage is empty; therefore, when the carriage is loaded, and the body settled down, the straps are slackened, and as the carriage moves, the straps fly loosely, and thus detract to a great extent from what is intended, and what would otherwise be a prominent ornament to the carriage.

The object of my invention is to construct these straps so as to be at all times taut, whatever load there may be in the carriage, and consists in the insertion into the straps or forming them entirely of an elastic material, which, yielding as the carriage-body rises, will contract as it falls, and thus maintain an apparently uniform position.

To enable others to construct my improvement, I will proceed to describe the same as illustrated in the accompanying drawings.

The best method I have yet tried is to construct the straps from an India-rubber tube, attaching one strap, A, at *a*, and the other strap, B, at *b*, on the body, crossing the two straps at C, and extending their other end down, and fixed to the proper point, according to the construction of the carriage, whether it be C, elliptic, or other spring. At their crossing I form any convenient connection, and place thereon any desired ornament, and the tubing I cover or coat with any desired material, or make the tubing of the proper color, or a flat elastic strap may be made in place of the tubing; therefore, I do not confine myself to any particular style or form of strap, but

What I claim as new and useful, and desire to secure by Letters Patent, is—

Constructing the cross-straps for carriages wholly or in part of rubber or other elastic material, substantially as and for the purpose described.

HENRY KILLAM.

Witnesses:

A. J. TIBBITS,  
J. H. SHUMWAY.