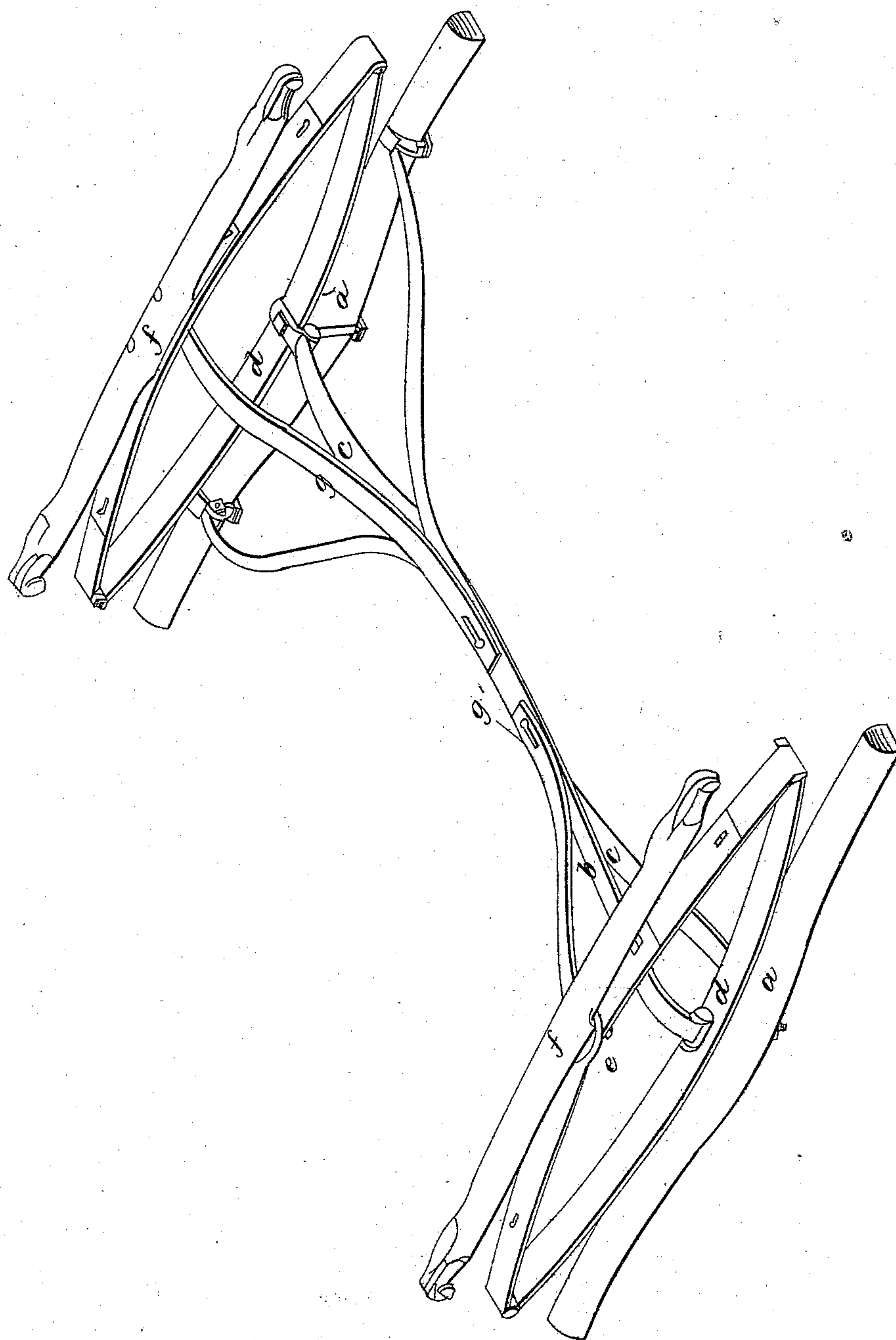


G NICHOLS.  
Running Gear.

No. 3.527.

Patented Apr. 10, 1844.



# UNITED STATES PATENT OFFICE.

GEO. NICHOLS, OF TRUMBULL, CONNECTICUT.

## MANNER OF CONNECTING THE BODY OF A CARRIAGE WITH THE PERCH BY MEANS OF SPRINGS.

Specification forming part of Letters Patent No. 3,527, dated April 10, 1844; Reissued March 14, 1846, No. 80.

*To all whom it may concern:*

Be it known that I, GEORGE NICHOLS, of Trumbull, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Running-Gear of Carriages; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification, in which the whole is shown isometrically.

The nature of my invention consists in affixing to the common perch of a carriage two spring stay braces which are bolted to the under side of the springs or bars and extend down to the center of the perch where they overlap each other and have slots cut through them so as to work on the bolts that attach them to the perch.

The construction is as follows: The axle (*a*) and perch (*b*) are made in the usual form and are stayed as at (*c*). To the top of the axles are bolted common elliptic springs (*d*) and above the forward one the fifth wheel (*e*) is placed and over both springs, spring bars (*f*) are fastened. From the center of the perch a narrow plate of spring steel curves up to the under side of

the hind springs or bar where it is bolted and forms the back spring stay brace (*g*). A similar one extends up to the forward springs or bar; at the center of the perch they overlap each other and are allowed a sliding motion in consequence of the bolts by which they are connected with the perch passing through slots in them; this arrangement gives the braces liberty to play up and down without straining the parts and also gives free action to the springs.

I do not claim connecting the body of a carriage with the perch by means of longitudinal springs as that has before been done, the springs being firmly connected at each end; but

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

The combination of the spring stay braces (*g*) with the perch by means of both passing through slots in the ends of said braces (*g*) in the manner and for the purpose herein described.

GEORGE NICHOLS.

Witnesses:

J. J. GREENOUGH,  
J. P. VAN TYNE.