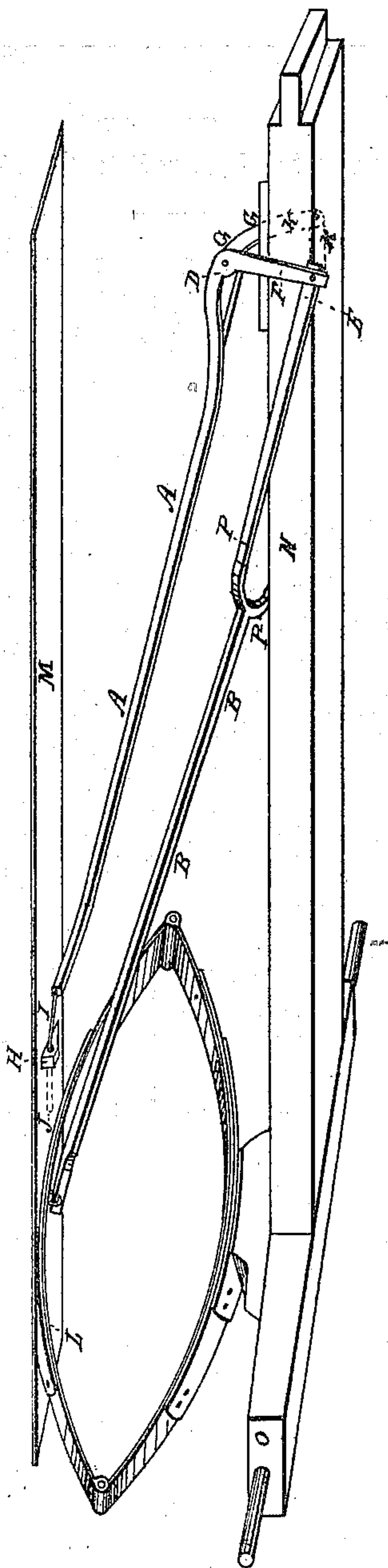


B. H. STEELE & R. HODGIN.

Improvement in Spring-Brace for Vehicles.

No. 128,669.

Patented July 2, 1872.



Witnesses

R. C. Graves.  
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Ben H. Steele  
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# UNITED STATES PATENT OFFICE.

BEN H. STEELE AND ROBERT HODGIN, OF BARNESVILLE, OHIO.

## IMPROVEMENT IN SPRING-BRACES FOR VEHICLES.

Specification forming part of Letters Patent No. 128,669, dated July 2, 1872.

Specification describing certain Improvements in Buggy or Wagon-Spring Braces, invented by BEN H. STEELE and ROBERT HODGIN, of Barnesville, Belmont county, Ohio.

Our invention relates to an improved method of bracing buggy or other vehicle-springs.

Figure 1 is a drawing of our improvement in position on a buggy.

A A is a lever; B B, brace; C C, the fulcrum-block; F, lever-fulcrum; D, pivot by means of which the lever is attached and swung to fulcrum-block G G. P P are brace-arms. E is a pivot, by means of which the brace-arm P is connected with lever-fulcrum F. O is the buggy-axle; N, the reach or coupling-pole. L L is the spring; M, the bottom of buggy-bed. H is a guide-block. I is the end of lever A A. The lever A A and brace-rod B B are attached together at E by means of pivots, and are attached or swung to the fulcrum-block G G by a pivot at D. When weight is placed upon the bed of buggy M the arms of lever F and brace P move in the direction of the dotted lines K K at the same time the end of lever I passes forward through the guide-block H to the place indicated by the dotted lines J. As the buggy-bed M descends the

brace-rod B B is lengthened; the lever A A moves forward, thereby taking up the slack of the brace-rod and permitting the spring L L to descend without any rocking motion.

The object of our invention is to give additional strength to the spring, to save wearing of the spring-lugs, to prevent the splitting of the spring-bars, and to prevent the breaking of the spring-bar bolts, which frequently results from the oscillating motion of the common springs when held only by an iron brace. We make the rod and lever of half-inch or five-eighths iron.

What we claim as our invention, and desire to secure by Letters Patent, is—

The attachments for carriage or wagon-springs herein described, consisting of the lever A, forked at F, with the forked brace-rod B P, guide-block H, and fulcrum G, constructed and arranged substantially as and for the purpose specified.

BEN H. STEELE.  
ROBERT HODGIN.

Witnesses:

R. C. GRAVES,  
A. C. HOGUE.