

(No Model.)

W. M. PECK.
VEHICLE SPRING.

No. 273,242.

Patented Feb. 27, 1883.

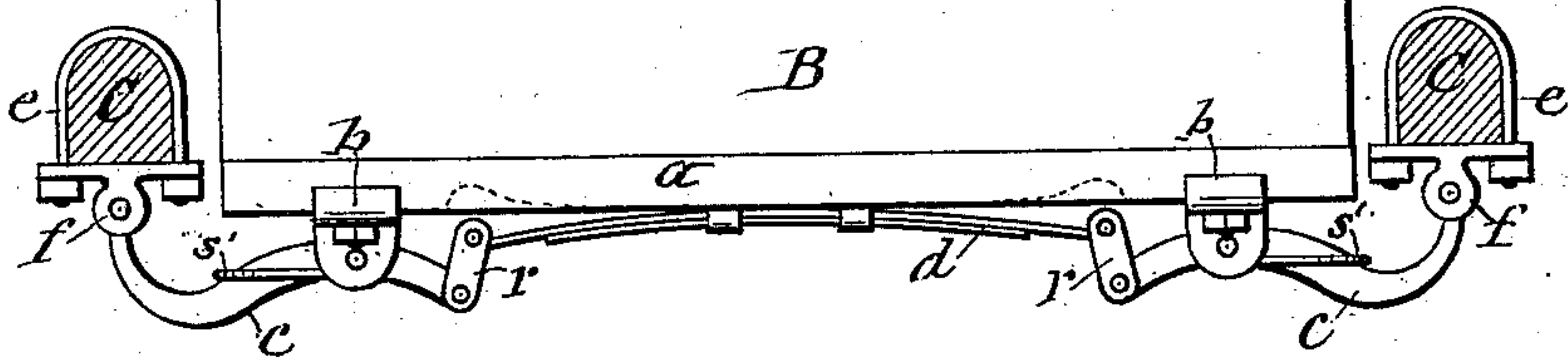


FIG-1-

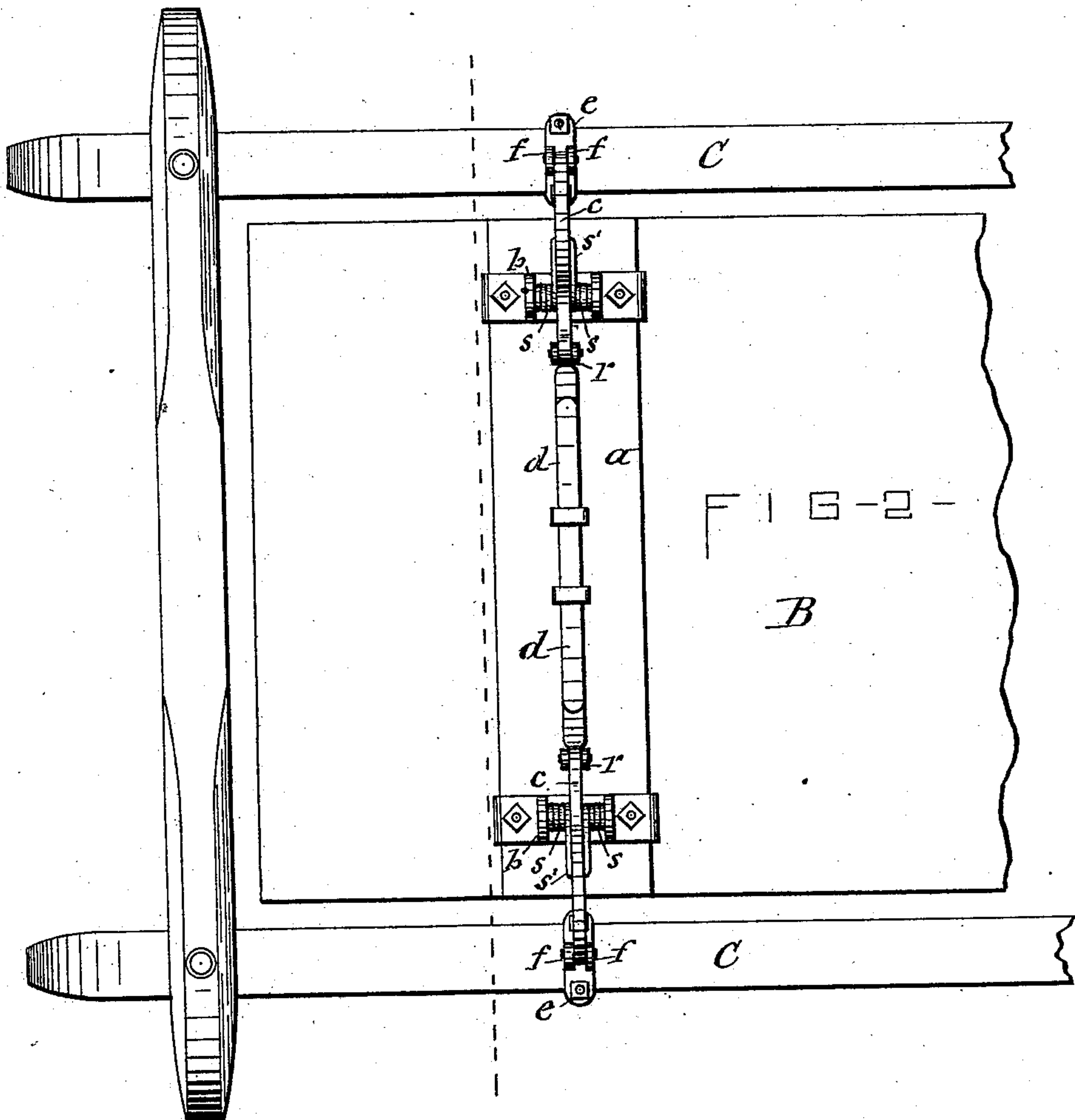


FIG-2-

WITNESSES—
C. Raymond
C. Bendixon

INVENTOR—
Wm. M. Peck
per Duell, Lasset & Hay
his Atty

UNITED STATES PATENT OFFICE.

WELLS M. PECK, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF TO
GEORGE STUDER, OF SAME PLACE.

VEHICLE-SPRING.

SPECIFICATION forming part of Letters Patent No. 273,242, dated February 27, 1883.

Application filed November 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, WELLS M. PECK, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Spring-Vehicles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improved means for elastically supporting the body of a vehicle from the side bars thereof, and has more particularly reference to that class of spring-supports in which the body of the vehicle rides on levers connected at their outer end to the side bars and at their inner end with a spring arranged across the under side of the body.

My invention consists in the combination, with the levers arranged as aforesaid, of a separate spring attached at its center to the under side of the vehicle-body, and couplings or hangers connecting the ends of said spring with the inner ends of the levers, thereby obtaining a far better action of the combination of the said levers and spring, all as hereinafter more fully explained, and specifically set forth in the claims.

The invention is fully illustrated in the annexed drawings, wherein Figure 1 is a transverse section of a vehicle-body and its improved support for the side bars, said view being taken immediately in front of said support, and showing the action of the same when subjected to a load; and Fig. 2 is an inverted view of one end of the same.

Similar letters of reference indicate corresponding parts.

B denotes the body of the vehicle, and C the side bars, the latter being supported at their extremities on the hind bolster and the head-block in any suitable and well-known manner.

a a are two cross-plates attached to the under side of the body B, a proper distance from the two ends thereof. To the bottom of each of said cross-plates, and respectively at or near opposite ends thereof, are attached two hangers, *b b*, in the form of plates, from which depend two ears. Between the ears of each of said hangers is hinged a lever, *c*, which lies parallel with the cross-plate *a*, and has its outer end hinged on the side bar, C, by means of a clip, *e*, clamped on the said side bar, and

provided with ears *f*, between which the end of the lever *c* passes, and is connected by a bolt passing through said parts.

d is a cross-spring, secured at its center to the under side of the cross-plate *a*, and having its extremities terminating at the inner ends of the levers *c*, and connected therewith by suitable couplings, *r*.

The effect of the aforesaid combination and arrangement of parts is as follows, to wit: When a load is applied to the body B the weight thereof falls onto the hinge by which the lever *c* is connected with the cross-plate *a*, said hinge constituting the fulcrum of the lever *c*, which latter transmits the strain to the end of the cross-spring *d* by the coupling *r*, and draws down said spring, as illustrated in Fig. 1 of the drawings.

In order to render the aforesaid devices more effective and reliable, I employ a double spiral spring, S, formed in one piece, wound around the pivotal pin of the lever at opposite sides of the latter, and having its intermediate portion, S', passing across the top of the outer portion of the lever *c*, as shown.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the body B, side bars, C, and levers *c*, connected thereto, as shown, the separate spring *d*, attached at its center to the under side of the body, and the couplings *r*, connecting the ends of said spring with the inner ends of the levers, substantially as described and shown.

2. In combination with the body B and side bars, C, the cross-plate *a*, hangers *b*, levers *c*, double spiral spring S, formed in one piece, and having its intermediate portion passing over the outer portion of the levers, cross-spring *d*, couplings *r*, and clips *e*, provided with the ears *f*, all constructed and combined substantially in the manner described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 1st day of November, 1882.

WELLS M. PECK. [L. S.]

Witnesses:

K. HEY,

C. H. DUELL.