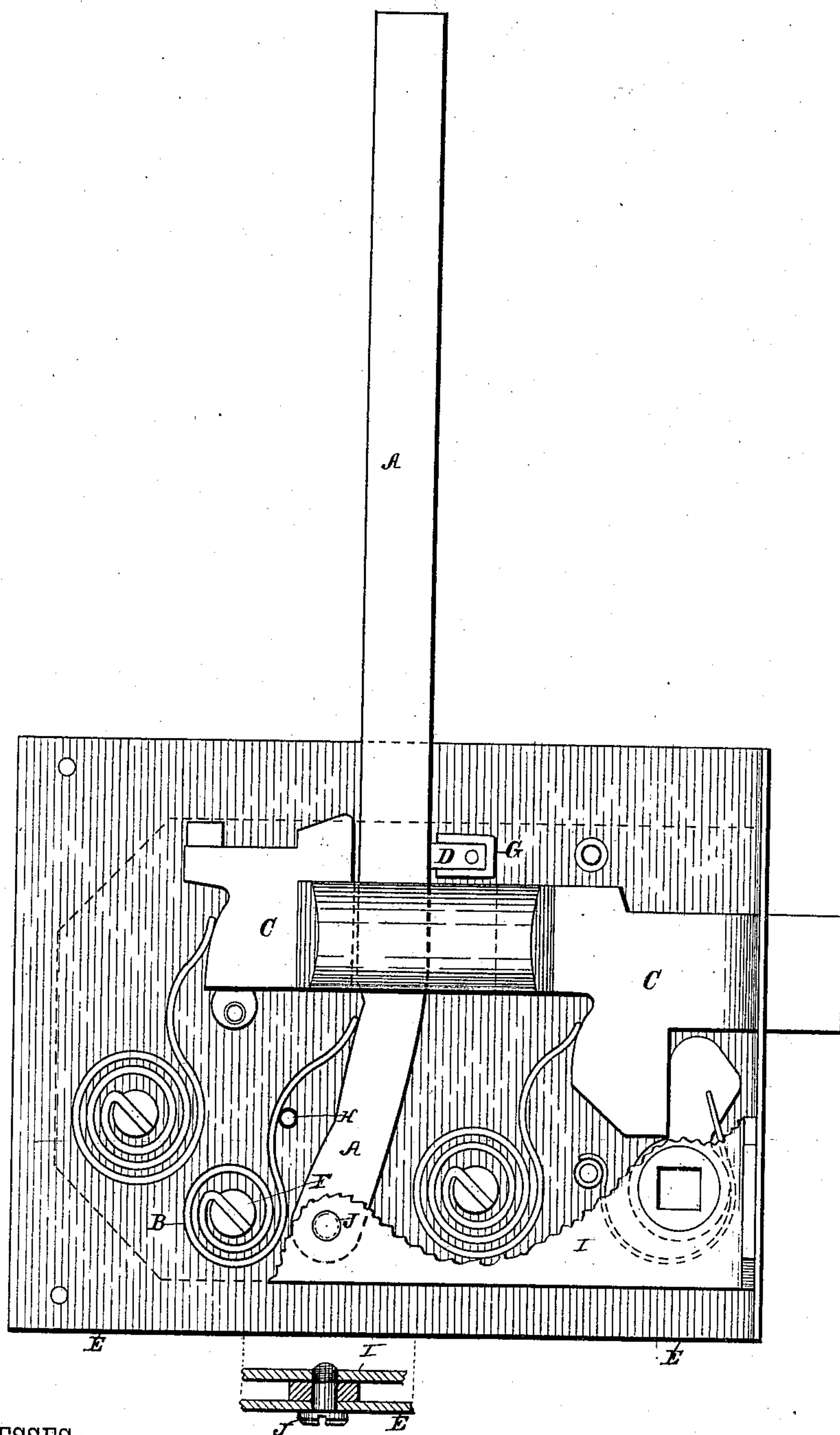


(No Model.)

A. OCHSNER.
COACH LATCH.

No. 323,719.

Patented Aug. 4, 1885.



WITNESSES:

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ANTON OCHSNER, OF NEW HAVEN, CONNECTICUT.

COACH-LATCH.

SPECIFICATION forming part of Letters Patent No. 323,719, dated August 4, 1885.

Application filed October 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, ANTON OCHSNER, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Coach-Latches; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification

My invention relates to an improvement in coach-latches, the object being to provide them with improved means for preventing the handle-lever from vibrating, and for facilitating its removal and replacement and enabling it to resist the heavy wear and strain to which it is subjected.

With these ends in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

The accompanying drawing is a plan view of a coach-latch embodying my invention, with the cover partly broken away, and with a projected section for showing the fulcruming of the handle-lever in place.

As herein shown, the handle-lever is prevented from vibration by means of cushions, consisting of a coiled spring, B, located in the rear of the lever and below the bolt C of the latch, and a rubber block, D, located in front of the lever and above the bolt. The said spring is secured to the casing E of the latch by means of a slotted stud, F, into which its inner end is inserted and around which it is coiled, its outer end being arranged to engage with and press against the rear face of the lever. The said rubber block is held in place by an open box, G, secured to the casing aforesaid, from which box it projects so as to engage with the front face of the lever when the same is in its normal position, in which it is shown in the drawing, which represents the latch in its latched adjustment.

The spring and block, arranged as described, cushion the lever against all longitudinal and lateral vibration, and thus not only prevent the noise and wear attending such vibration, but also the unlatching of the door.

In order to prevent the outer end of the

spring from being thrown forward when the lever is removed from the latch, and thus interfere with its restoration to place, a pin, H, is set into the casing at a point in front of such end of the spring and in position to permit such an engagement of the same with the lever as will sufficiently cushion it against vibration and yet prevent the end of the spring from being thrown forward when the lever is removed, which is done during the process of fitting the latch to the coach. It will thus be seen that the pin permits the replacement of the lever without removing the cover of the latch. The lever is fulcrumed in place between the casing and the cover I by means of a top bolt, J, which passes through the former and threads into the latter. The entering of the top bolt from the outer or exposed face of the casing permits the bolt to be taken out and put back for the removal and replacement of the handle-lever without removing the latch from the coach-door, such removal and replacement of the handle-lever being necessary in applying the fittings to it. Furthermore, by giving the top bolt a bearing in both the casing and cover, a firm and durable bearing is secured for the lever, which is operated under the heavy tension of the bolt-springs and subjected to constant direct as well as twisting strain.

If desired, the rubber block may be replaced by a spring; but the block is preferred, as being more compact, and also because it is more effectual in overcoming lateral vibration of the lever. I would therefore have it understood that I do not limit myself to the exact construction shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a coach-latch, the combination, with a removable handle-lever, of a rubber cushion located in front of and engaging with the same in the latched adjustment of the device, and a spring to throw the said lever forward, substantially as set forth.

2. In a coach-latch, the combination, with the casing and cover thereof, of a removable

handle-lever, and a removable top bolt entering the latch from the outer face of the casing and passing thence through the removable handle-lever, of which it forms the fulcrum, 5 substantially as set forth.

3. In a coach-latch, the combination, with the casing and cover thereof, of a removable handle-lever, a removable top bolt entering the latch from the outer face of the casing and 10 passing thence through the removable handle-lever, of which it forms the fulcrum, and cushions located on either side of said handle-lever and arranged to prevent it from vibrating, substantially as set forth.

15 4. In a coach-latch, the combination, with

a removable handle-lever, of a spring located to the rear of and engaging with the same, a pin arranged to prevent the said spring from springing forward into the place of the lever when the same is removed from the latch, and 20 means for limiting the forward movement of the lever, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ANTON OCHSNER.

Witnesses:

HENRY BUCHTER,
M. S. SEELEY.