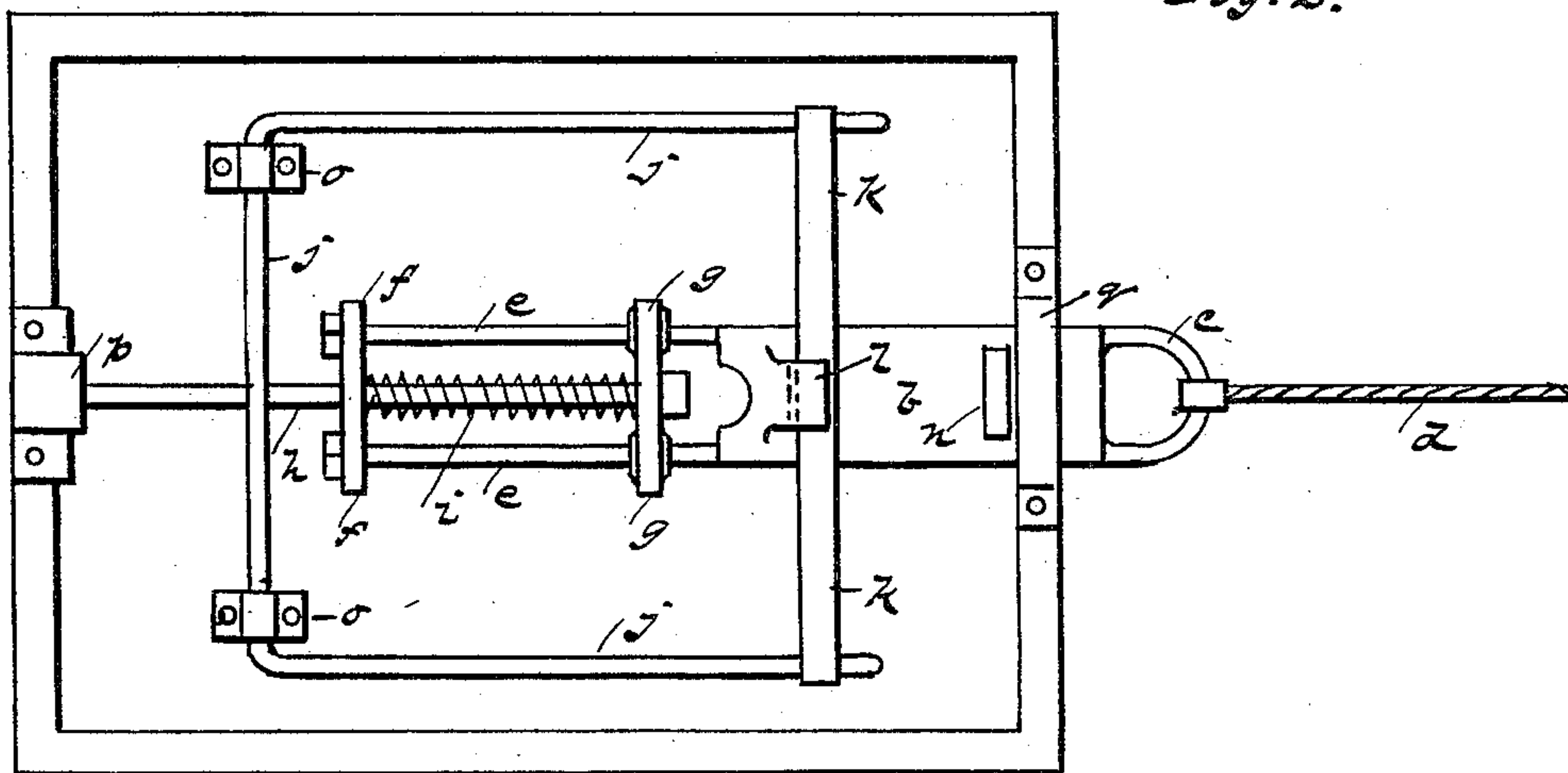
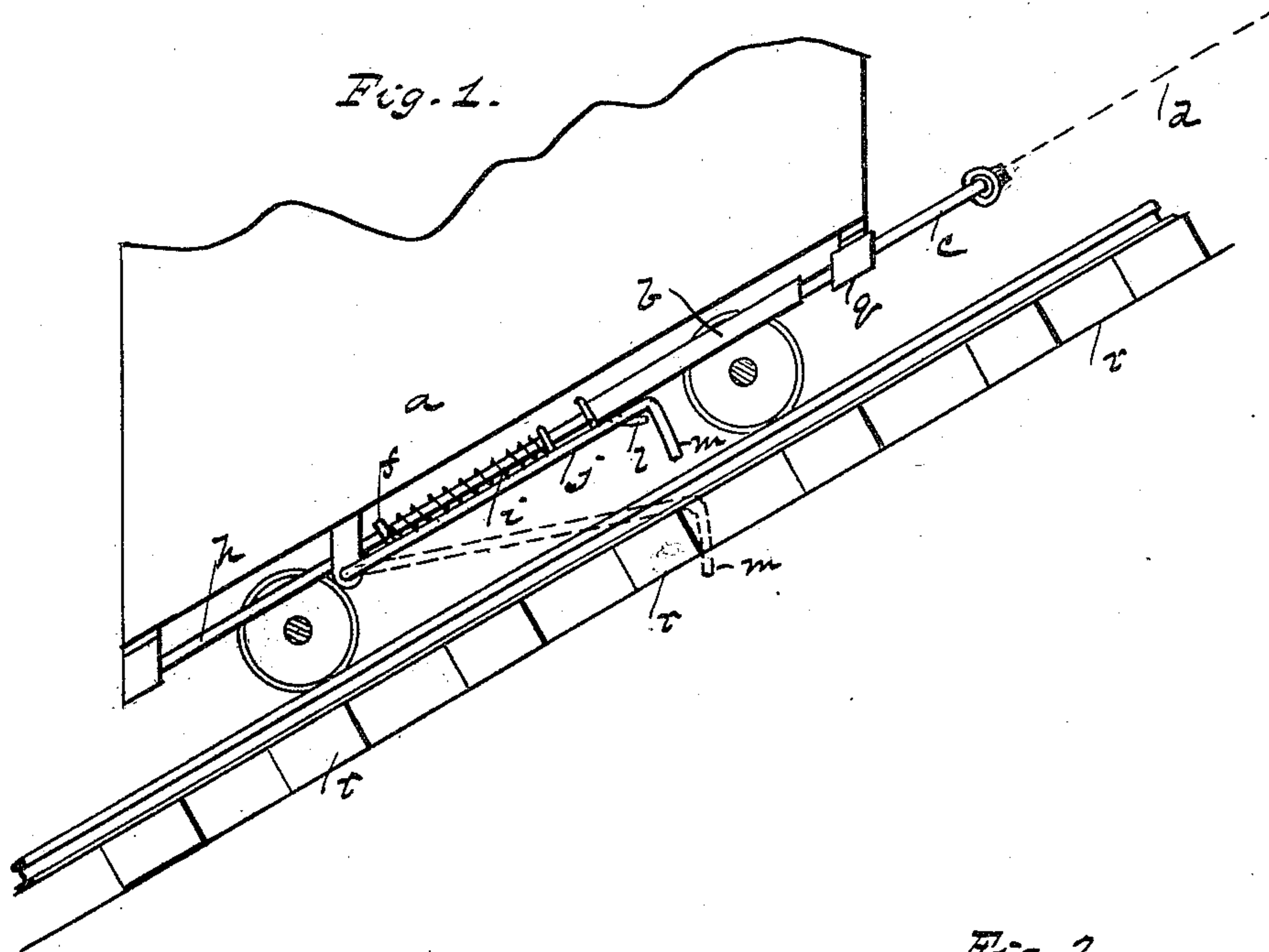


(No Model.)

W. PEACH.
SAFETY DEVICE FOR INCLINES, &c.

No. 432,213.

Patented July 15, 1890.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM PEACH, OF ALLEGHENY, PENNSYLVANIA.

SAFETY DEVICE FOR INCLINES, &c.

SPECIFICATION forming part of Letters Patent No. 432,213, dated July 15, 1890.

Application filed March 17, 1890. Serial No. 344,192. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM PEACH, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Safety Devices for Inclines, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved safety attachment for incline-cars, and consists in the peculiar construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of my improvement, showing the same attached to an incline-car. Fig. 2 is a plan view of the under side of a car provided with my safety device.

To put my invention into practice with an incline-car *a*, I attach to the frame of the floor a sliding draw-head *b*, consisting of a link *c*, for the purpose of attaching the power-rope *d* thereto, and the said draw-head *b* provided with two rearwardly-extending bars *e*, connected together by a cross-bar *f*. Passing through this cross-head *f* is a rod *h*, one end of which is rigidly attached to the frame of the car *a* and the other to a cross-head *g*, loosely attached to the rear extensions *e* of the draw-head *b*. About this rigid bar *h* is a spiral spring *i*, which bears against the two cross-bars *f g* in a manner that will keep the draw-head *b* back against the bar *g* if there is no strain on the same. Hinged in suitable bearings *o* beneath the car *a* is a bent bar *j*, extending in the direction of the length of the said car and provided at its two extremities with downwardly-projecting hooks *m*, and also with a connecting-bar *k*. This connecting-bar *k*, when the draw-head *b* is moved forward, rests in a hook *l*, formed beneath the

same, and the hooked ends *m* of the bar *j* prevented from engaging with the cross-ties *v* of the track. A suitable projection or stop *n*, formed on the under side of the draw-head *b*, will prevent the same from moving forward but a limited distance, and engaging with the guide or bearing *q* releases the strain from bar *h*.

Should the rope which moves the car up or down the incline break and the weight or strain on the draw-head *b* be removed, the same will move back by the action of the spring *i*, thereby releasing the bar *k* from its catch *l* and permitting the hooks *m* to drop between the cross-ties *v* of the track, (see dotted lines at Fig. 1 of the drawings,) and instantly stopping the car.

After an accident such as described the rope *d* is replaced or attached to the draw-head and the hooks *m* elevated out of the space between the ties and the cross-bar *k* secured in its catch *l*.

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

The herein-described safety attachment for incline-cars, consisting of the draw-head *b*, capable of moving a limited distance in the direction of its length and actuated by a suitable spring *i*, the bar *j*, hinged to the frame of the car and provided with downwardly-projecting hooks *m*, adapted to engage with the cross-ties of the track, and a catch *l*, arranged beneath the draw-head *b* in a manner that when the strain is removed from the said draw-head the hooked bars will drop and engage with the ties of the track, substantially as set forth.

In testimony that I claim the foregoing I hereunto affix my signature this 16th day of January, A. D. 1890.

WILLIAM PEACH. [L. s.]

In presence of—

M. E. HARRISON,
C. C. LEE.