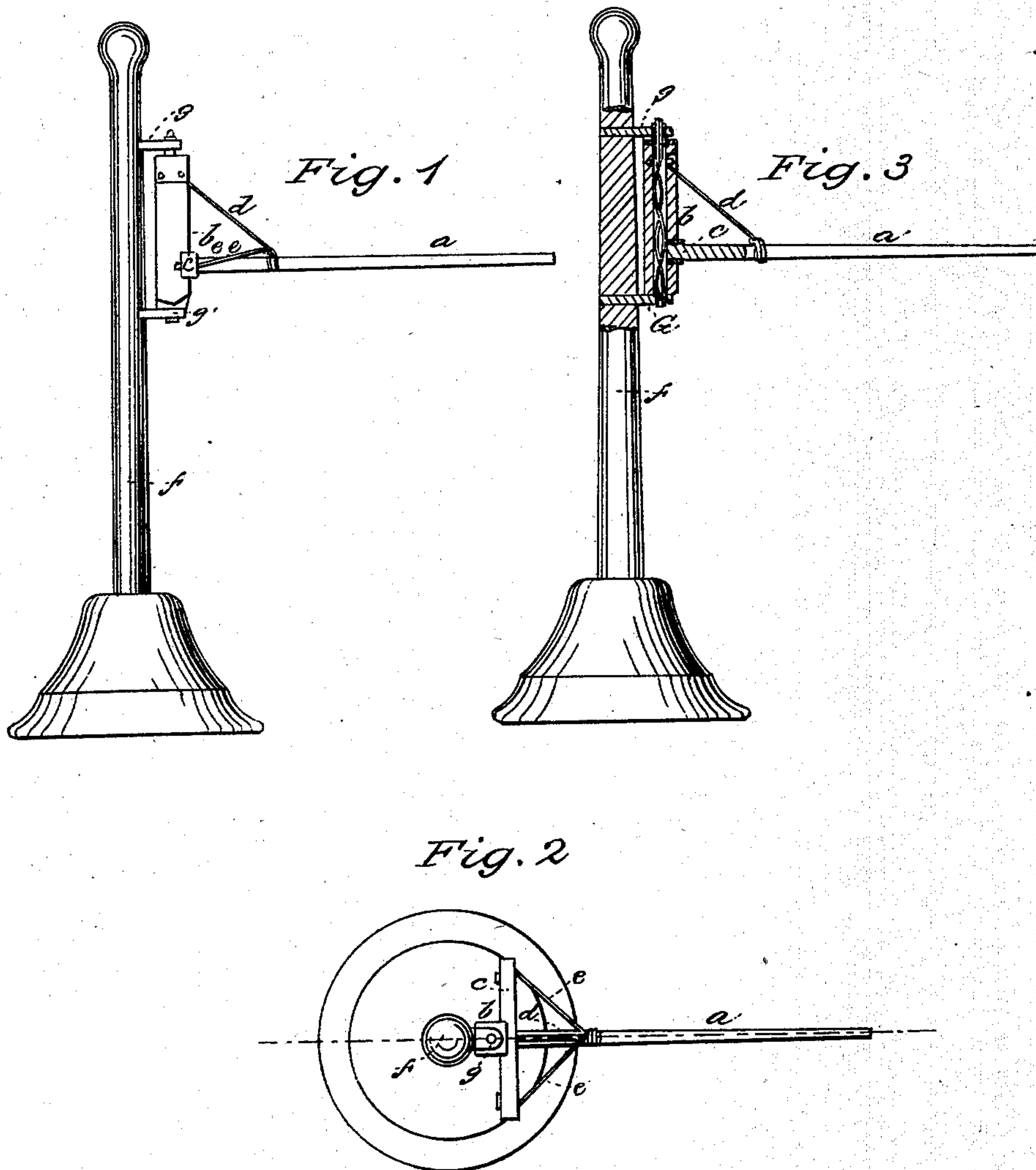


C. L. HEYWOOD.
Railroad Safety-Guard.

No. 62,197.

Patented Feb. 19, 1867.



Witnesses:
O. C. Houghton
N. Merrill

Inventor
C. L. Heywood
by his att'y
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United States Patent Office.

CHARLES L. HEYWOOD, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 62,197, dated February 19, 1867.

IMPROVED RAILWAY SAFETY-GUARD.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, CHARLES L. HEYWOOD, of Boston, in the county of Suffolk, and State of Massachusetts, have invented certain new and useful improvements in Railway Safety-Guards; and that the following description, taken in connection with the accompanying plate of drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

The figures in the accompanying plate of drawings represent my improvements.

Figure 1 is a vertical view of my improved railway safety-guard.

Figure 2 is a plan or top view of the same.

Figure 3 is a vertical section of the same.

a, in the drawings, (figs. 1, 2, and 3,) represents the guard attached to the spring-box *b*, and supported by a cross-tree, *c*, together with braces *d* and *e*, the spring-box *b* being attached to the post *f* by eye-bolts *g* and *g'*. The spring-box *b* is held by two spiral springs running vertically in opposite directions in such a manner as to embrace one of the pivots, upon which the box *b* is free to swing, two ends being fastened at the lower eye-bolt *g'*, and the other two above and inside the spring-box *b*.

The object of my improvement is to protect the lives of brakemen or other attendants riding upon the tops of railway carriages.

The guard *a* is composed of any light, suitable material, and is fastened to a post or building sufficiently near the rail, at a proper distance on either side of tunnels, bridges, or other approaches oversweeping the train, and gives notice of danger by striking the person lightly, receiving a lateral semicircular movement, when it immediately returns to its original position by the action of the spiral springs.

It will be evident that any desired form of springs may be used in lieu of the spiral springs described.

Having thus described my invention, I shall state my claim as follows:

What I claim as my invention, and desire to have secured to me by Letters Patent, is—

A railway guard, arranged and operating as described and for the purpose specified.

C. L. HEYWOOD.

Witnesses:

JOSEPH GAVETT,

O. C. HOUGHTON.