

(No Model.)

G. F. S. CLAMER.
BELL CORD HANGER FOR RAILWAY CARS.

No. 503,406.

Patented Aug. 15, 1893.

FIG. 1.

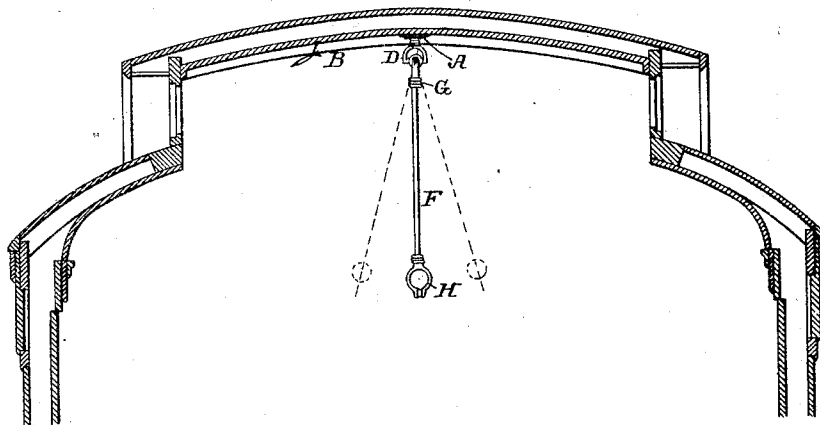
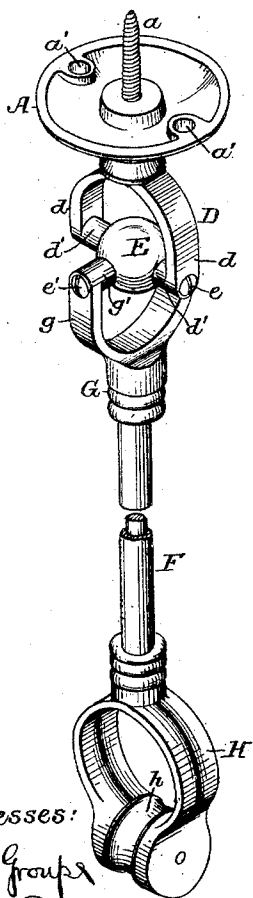
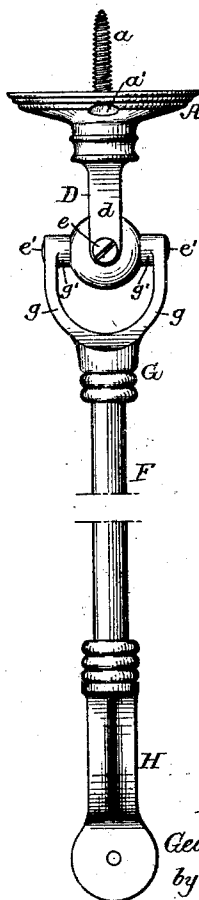


FIG. 2.



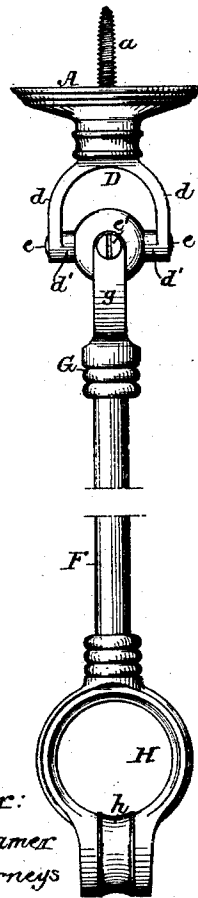
Witnesses:
A. V. Group
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FIG. 3.



Inventor:
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by his Attorneys
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FIG. 4.



UNITED STATES PATENT OFFICE.

GEORGE F. S. CLAMER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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PLACE.

BELL-CORD HANGER FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 503,406, dated August 15, 1893.

Application filed February 15, 1893. Serial No. 462,382. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. S. CLAMER, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Bell-Cord Hangers for Railway-Cars, of which the following is a specification.

The object of my invention is to so construct a bell cord hanger for railway cars as to make a solid metal connection between the roof of the car and the eye of the hanger, and at the same time allow the hanger to swing perfectly free with the opening of the eye at all times on a line parallel with the longitudinal line of the car.

Heretofore bell cord hangers have been made perfectly rigid, or have been made with flexible portions of leather or fabric, but the flexible sections are objectionable owing to the fact that they twist the eye out of line, and soon wear out. A rigid hanger has been abandoned as impracticable.

In the accompanying drawings:—Figure 1, is a sectional view of a portion of a car showing my improved hanger attached. Fig. 2, is a perspective view of my improved bell cord hanger. Fig. 3, is a side view; and Fig. 4, is a front view.

A is the ceiling plate having a screw *a* or other fastening by which it is attached to the car roof B, and I prevent the ceiling plate from turning by inserting screws into openings *a'* at each side of the center screw *a*.

Depending from the center plate A is a forked arm D. The forks *d, d*, have enlargements *d'*, and situated between the forked arms is a ball E into which are screwed transverse pivots *e*, so arranged that the ball will be held rigidly as regards transverse movement, but can swing freely in a longitudinal path.

F is the hanger proper, having at its upper end a forked head G, the arms *g* of said head having projections *g'* which rest against the ball E, and passing through these projections are screw-threaded pivots *e'*, so that the

hanger F can swing only in a longitudinal line from its pivots *e'*.

Secured to the lower end of the hanger F is an eye-piece H so mounted on the hanger that the eye opening will be always in line with the bell cord, as clearly shown in Figs. 1 and 4. Carried by the eye-piece is an anti-friction roller *h* upon which the bell cord rests.

It will be seen by the above description and the views of the drawings, that while the hanger is perfectly free to swing either longitudinally or transversely to accommodate itself to the movement of the car, it nevertheless hangs in such a manner at all times that the eye will be in line with the bell cord, so it will be impossible for the bell cord to become entangled in the eye, thus insuring the freedom of movement necessary.

It will be understood that the position of the arms of the forked sections may be reversed without departing from my invention, but one section must be at right angles to the other, and the eye must be in such relation to the car that its opening will be always parallel with the bell cord.

I claim as my invention—

The combination of the ceiling plate A, the forked projection thereon, the arms *d* of said projection having openings, pivot pins *e* adapted to said openings, a coupling ball hung on the pivot pins between the arms, a hanger F having a forked head G, the arms *g* of said head being arranged at right angles to the arms *d* of the ceiling plate, pivot pins adapted to said arms and to the coupling ball, with an eye piece H rigidly attached to the lower end of the hanger F, substantially as described.

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

GEORGE F. S. CLAMER.

Witnesses:

JOSEPH H. KLEIM,
WILLIAM D. CONNER.