

(No Model.)

C. C. ROGERS.
TRACK FOR STORE SERVICE APPARATUS.

No. 457,609.

Patented Aug. 11, 1891.

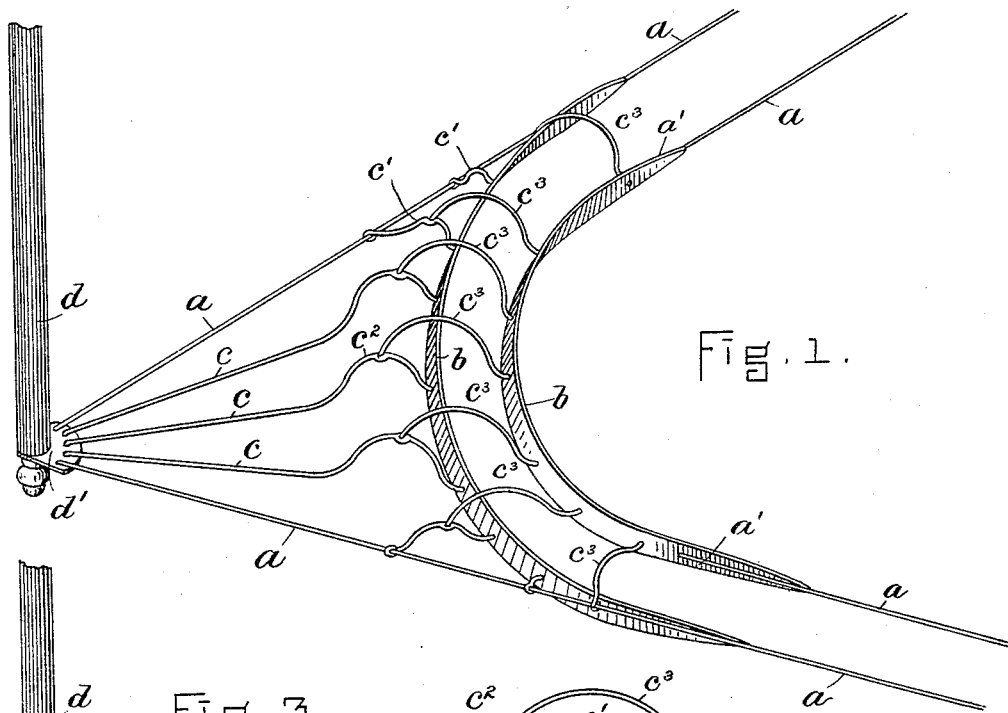


FIG. 1.

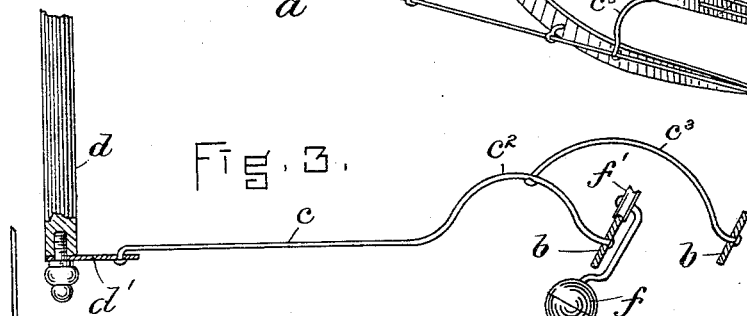


FIG. 3.

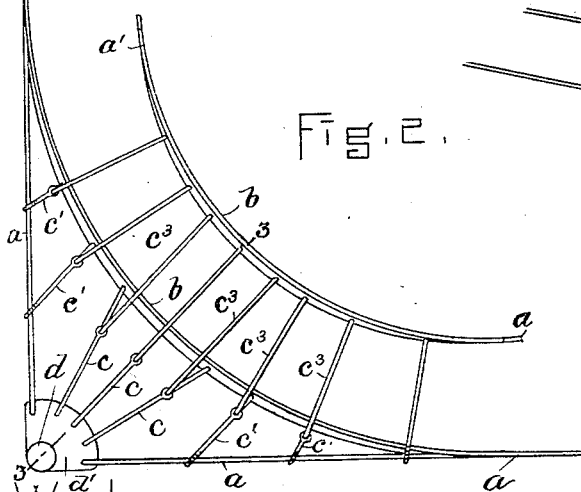


FIG. 2.

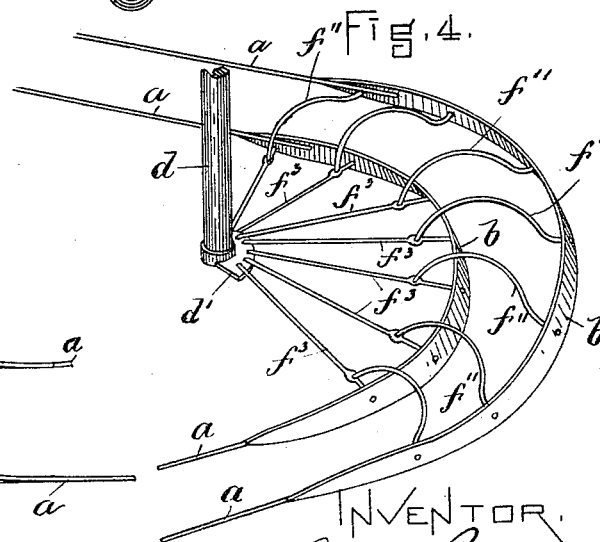


FIG. 4.

WITNESSES.

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UNITED STATES PATENT OFFICE.

CHARLES C. ROGERS, OF BROCKTON, MASSACHUSETTS, ASSIGNOR, BY DIRECT
AND MESNE ASSIGNMENTS, OF TWO-THIRDS TO CHARLES E. McELROY
AND CHARLES C. MERRITT, OF SAME PLACE.

TRACK FOR STORE-SERVICE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 457,609, dated August 11, 1891.

Application filed November 24, 1890. Serial No. 372,402. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. ROGERS, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Wire Tracks for Store-Service Systems, of which the following is a specification.

This invention has for its object to provide an improved construction of curves for wire tracks which are used to support and guide cash-carrying cars in retail stores; and it consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a perspective view of a portion of a wire track, including a curve, embodying my invention. Fig. 2 represents a top view of the same. Fig. 3 represents a section on line 3 3, Fig. 2, showing the position of the carrier when it is running upon the curved portion of the track. Fig. 4 represents a perspective view of a modification.

The same letters of reference indicate the same parts in all of the figures.

In the drawings, *a a* represent two straight lengths or sections of wire, such as are commonly employed for cash-carrier tracks in retail stores. Said sections may be supported, excepting at the point where the curve forming my improvement is located, by any well-known means, and as means for supporting wire tracks are well known I have not shown the supports for any portion of the track, excepting the curved portion. The two sections *a a* are arranged at different angles, and it is the object of my invention to so connect said sections that a carrier *f*, having a wheel or wheels *f'*, can run from one section to the other, and thus take a different course, the said sections extending in different directions. To this end I connect the sections *a a* by means of a curve *b*, composed of a curved metallic strip or bar, to which the sections *a* may be attached in any suitable way. For example, the sections may be riveted, brazed, or otherwise connected to the curve at or near the ends thereof, the two sections being made in separate pieces. The curve *b* is inclined in

transverse section, as shown clearly in Fig. 3, its upper edge having a shorter radius than its lower edge, so that a carrier *f* when passing along the curve will be free to swing laterally by centrifugal force, as indicated in Fig. 3, without striking the track.

d represents a fixed support, which is preferably a vertical post or pillar, and may be attached to the ceiling and project downwardly therefrom or to the floor or any other suitable part of the room. To the support *d* is affixed a plate *d'*, arranged horizontally. To said plate *d'* are attached the track-sections *a a* and a series of tie-rods *c c*, extending to the curve *b* and secured to the latter, as shown in Figs. 1 and 2.

c' c' represent a series of tie-rods secured to the curve *b* and to the wire track-sections *a a*.

It will be seen that the track-sections *a a* and the system of tie-rods *c c c' c'* constitute a secure connection between the curve *b* and the fixed support *d*, so that the curve is held securely in place and enables a carrier to pass freely from one straight track-section to the other.

I prefer to curve the tie-rods *c c c' c'* at *c²*, near their junction with the curve *b*, to afford room at the outer side of the curve for the upper portion of the carrier in case the latter is of such form that it would be likely to strike the tie-rods if they were not thus curved. When two parallel tracks are employed, I connect the curve *b* of the inner track with the straight track-sections *a a* by brazing, soldering, or otherwise attaching the ends of said sections to the ends of the curve at *a'* *a'*. I also connect the curve with the tie-rods *c c'* by means of curved extensions *c³* of said tie-rods, said extensions passing over the outer curve, as shown, and supporting both the inner curve and the inner straight track-sections.

In case it is not practicable to locate the support *d* at the convex side of the curve, said support may be located at the concave or inner side of the curve, as shown in Fig. 4, in which case the curve will be supported by radial arms or braces *f³*, secured to the inner

curve, and extensions f'' from said arms to the outer curve.

I claim—

1. The combination of the straight track-
5 sections extending in different directions, the
curved bar or strip secured to said sections
and inclined in cross-section, so that its upper
edge has a shorter radius than its lower edge,
a fixed support, and connections between said
10 support and the curved strip or bar, as set
forth.

2. The combination of two parallel tracks,
each comprising straight sections a and a
curve b , connecting said sections, a fixed sup-
15 port, to which the straight sections of the

outer track are secured, tie-rods supporting
the curve of the outer track at points be-
tween the ends thereof, and extensions of said
tie-rods secured to the curve of the inner
track and supporting both the curve and the 20
straight sections of the inner track, as set
forth.

In testimony whereof I have signed my
name to this specification, in the presence of
two subscribing witnesses, this 20th day of 25
November, A. D. 1890.

CHARLES C. ROGERS.

Witnesses:

CHARLES E. MCELROY,
C. F. BROWN.