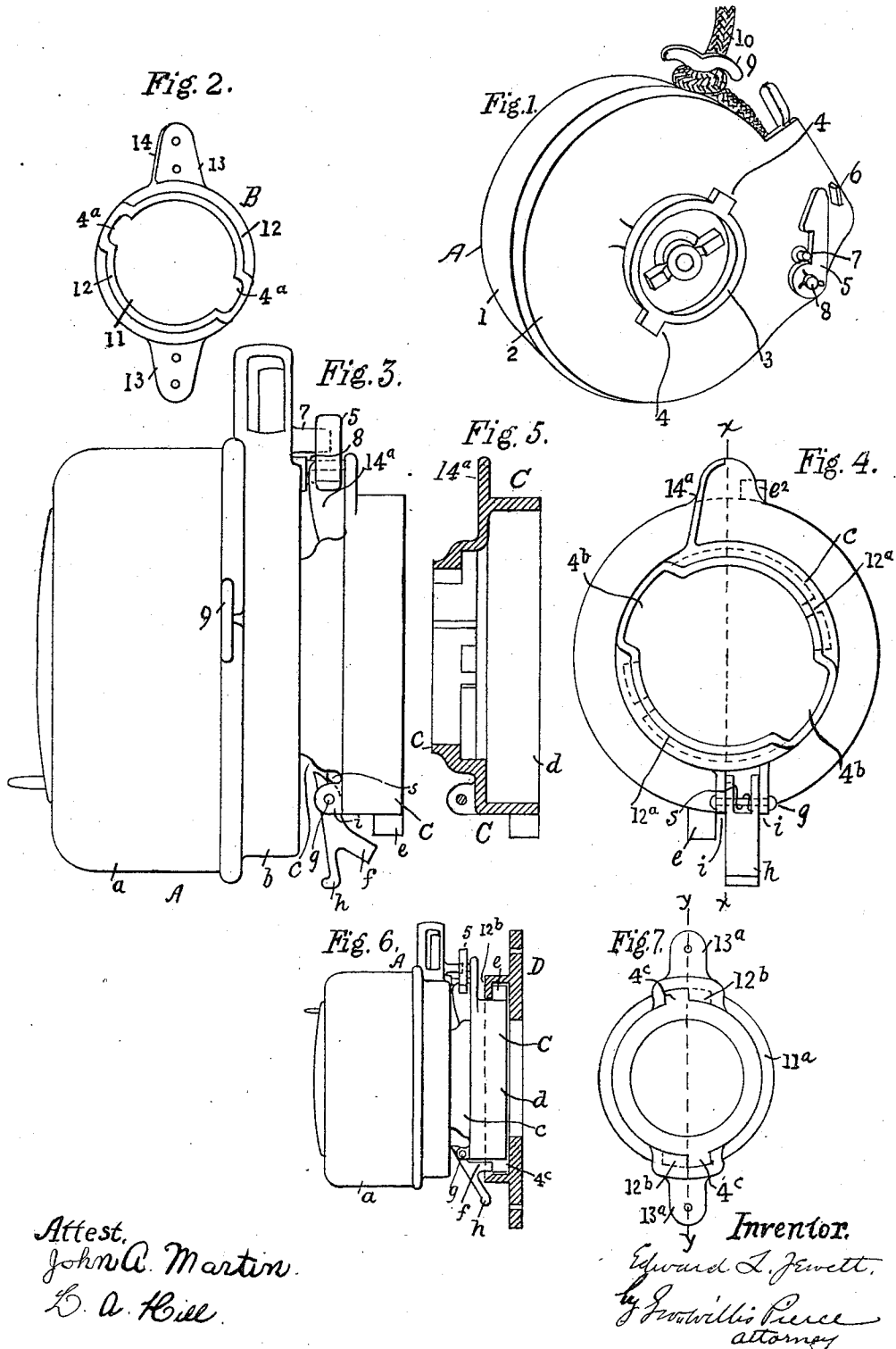


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TROLLEY CATCHER AND RETRIEVER.
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UNITED STATES PATENT OFFICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD LEWIS JEWETT, citizen of the United States, and resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Trolley Catchers and Retrievers, of which the following is a specification.

The invention about to be described relates to portable trolley-catchers for electric cars which use the overhead trolley, and has for its special object to produce a device used in connection with the retriever by means of which it is adapted to lock with more than one style of socket upon the car dasher and be held firmly in position.

In a common form of devices for the purpose the catcher or retriever is provided upon one end with fingers or bars which register with and enter depressions on the outer face of the socket, which is bolted on the end of the car dasher; and when the retriever is to be secured to the car the fingers are pushed into the depressions and the retriever is turned about, so that the ends of the fingers pass under the lips which connect the depressions and reach a stop pin when a spring catch locks over a lip on the socket.

In order that a catcher or retriever of one construction may be used in connection with a socket made to mate with a retriever of a different construction, I provide a device, termed by me "an adapter," consisting of an intermediate member formed on one end with means to engage and lock with the retriever, and provided with means on the opposite end to engage and lock with the socket; all of which I will now proceed to describe and point out in the appended claims.

In the drawings which form a part of and illustrate the invention: Figure 1 is a perspective view of the trolley-catcher or retriever. Fig. 2 is a face view of a common socket adapted to said retriever. Fig. 3 is a side view of a retriever, an adapter, and a socket differing in dimensions from that shown in Fig. 1, in their relative positions when attached to one another. Fig. 4 is a face view of the adapter to show how it can be locked to the retriever. Fig. 5 is a section on line *x. x.* of Fig. 4. Fig. 6 is a side view of the connected retriever, adapter and a second socket differing in dimensions from that shown in Fig. 2, the latter being shown

in section, on line *y. y.* of Fig. 7 and Fig. 7 is a face view of the socket D shown in Fig. 6.

In the drawings A represents a trolley-catcher or retriever made in two parts, *a* and *b*, which contain the coiled-up rope, one end of which 10 extends outward and is wound around the cleat 9, as is customary when the retriever is removed from its socket B and on its rear end is a latch 5, and the ring 3, having bars or fingers 4 4, which are adapted to enter the slots 4^a 4^a on the socket B and being turned about pass under the lips 12 12 all in the ring 11, and secured in a manner well understood; the extensions 13 13 from the ring 11 are provided with holes through which pass bolts to secure the socket to the car dasher. On one of the extensions 13 is a lip 14 over which the latch 5 catches when the retriever is secured into the socket.

Such arrangements as have been described are in common use, but such a retriever can be secured only to the particular socket described, and my invention provides a means whereby the retriever may be secured to other forms of sockets, which I will now describe.

I provide an adapter or a linking member C of generally tubular, skeleton section having on one side a socket *c* concentric with its ring *d* and opening thereinto, provided with just such parts as have been described of the socket B whereby the retriever A may be secured thereto, as represented in Figs. 3, 4 and 5, in which 4^b 4^b are the peripheral slots, 12^a 12^a the outwardly extending radial lips, and 14^a the lip extending from the socket wall beyond the ring, over which is secured the latch 5, and 6 and 7 the studs which limit the motion of the latch, and 8 the pintle on which it is pivoted. Upon the lower portion of this face of the adapter socket is pivoted at *g* a latch *h* between the lugs *i*, *i*, and adapted to be held up by the spring *s*, but represented in Figs. 3 and 4 as pulled down in order that the lug *e* on the edge may be more readily seen, opposite which on the ring *d* is another lug *e*².

D represents a socket of larger dimensions than the socket B, and consists of a ring 11^a with two extensions 13^a 13^a provided with holes so that it may be secured to a car dasher by bolts; on opposite sides of the ring are slots 4^c 4^c adjoining which are the

lips 12^b 12^b. When the retriever A is to be secured to a car provided with such a socket as D, to which it is not directly adapted, it is first secured to the auxiliary
 5 socket or adapter C, as has been described, the latch *h* is pressed back against its spring *s* into a position similar to that shown in Fig. 3, so that its stud *f* is free from the lip 12^b, then the lugs *e* and *e*² are
 10 inserted into the respective slots 4^e 4^e and turned under the lips 12^b 12^b, and the bolt *f* of the latch *h* is released and snapped into the slot 4^e into which the lug *e* was inserted and turned from, and forms a wedge to
 15 prevent the said lug from turning back and is held in this position by its spring *s*. The position of the retriever is such in all of the figures that the rope 10 will pull from its top, and all the parts correspond to this
 20 position.

It will be understood that the socket D and its complementary side of the adapter C may be arranged differently than shown, which are simply parts to illustrate the use
 25 of the adapter.

In order that the rope 10 will pull from the top of the retriever, as has been stated, it is essential that the detent members at the front and rear of the adapter C shall
 30 occupy such definite positions relatively to each other that when coacting with the co-operating detent members of the retriever and socket to hold the former in position for use, the opening in the casing of the
 35 retriever shall be presented in a predetermined direction. As shown in the drawings, the adapter is provided around its circumference, and at what may be termed the front thereof, with detent members com-
 40 prising the lip 14^a, slots 4^b and lips 12^a adapted to coact with the latch 5 and fingers 4, 4, respectively of the retriever A;

and the rear of the adapter is provided with detent members comprising the lugs *e*, *e*², supplemented by the stud *f* of the latch *h*, 45 adapted to coact with the slots 4^e and lips 12^b of the socket D. All these detent members occupy such relative positions that the retriever can only be attached to plan for use in proper rotative position to be op- 50
 erative for the purpose for which it is designed.

I claim as my invention:

1. An adapter or intermediate link for the purpose described, of tubular section, 55 consisting of a ring concentric of which and extending from one side is an integral locking device composed of inwardly projecting lips separated by opposite spaces or slots, a lip extending from the locking de- 60
 vice beyond the periphery of the ring, lugs on the face of the ring between which is pivoted a latch, with locking lugs project-
 ing from the rim of the ring, as set forth.

2. An adapter or intermediate link for 65 the purpose described of tubular section, consisting of a ring integral with which and on one side is a circular locking device of less diameter and opening into its interior with inwardly projecting lips separated by 70
 opposite spaces or slots, a lip extending from the wall of the locking device beyond the ring, opposite which are lugs on the ring wall, a latch pivoted between the lugs, with locking lugs or detents project- 75
 ing from the outer face of the ring, as set forth.

Signed at Brooklyn, in the county of Kings and State of New York, this 13 day of April, A. D. 1911.

EDWARD LEWIS JEWETT.

Witnesses:

DONALD McKELLAR,
 S. CORNELIUS.