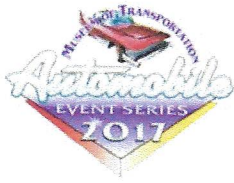


AROUND THE LOOP

A Publication of the Museum of Transportation Trolley Volunteers

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MUSEUM EVENTS FOR OCTOBER 2017

- **Brass & Nickel Car Show** – Sunday, October 1st, 2017 11 AM – 2 PM
Horseless Carriage Club of Mo.
- **Misfit Car Club Show** – Sunday, October 8th, 2017 – 11 AM – 3 PM
Misfultz Car & Truck Club.

ST. LOUIS STREETCARS - 1923

Streetcar routes in St. Louis at the system's peak, in 1923, shown in red.
Route numbers are included.



Now A Reality the PCC Car

(Continued from last month.)

DOOR AND DOOR EQUIPMENT

- Each passageway at front and center doorways is equipped with two precision doors which are built up of copper bearing steel and the outside line conforms to contour of side of car and they are practically flush. Doors are equipped with molded rubber bumpers on both edges, and each door panel has three lights of double strength grade "A" glass set in rubber. Grab handles are provided on the first door of each passageway. All doors are operated pneumatically; the front doors from a valve at the operator's position, the center doors by pneumatic rubber mat treadles. These doors are of the two-leaf type which cleverly turn and fold out of passage way. Door units are identical and replaceable. Stanchions, as required, are 1¼-inches outside diameter stainless steel clamped in cast aluminum alloy fittings at top and bottom.

UNDERFRAME

- Underframe of this car is built up of pressed shapes and composite members of high tensile steel electrically welded into an integral unit. Side sills are 1/8-inch pressed high tensile steel and are employed as longitudinal ducts in the ventilating system. They extend on blind side of car between vestibule corner post, and on door side from front body corner post to front center door post, and from rear center door post to rear vestibule corner post. The bottom cover of side sills, pressed out of No. 13 gauge copper bearing steel, where provision is made for removal, is riveted except where skirt braces are located, the skirt braces being secured to side sills by bolts. Draft sills are pressed out of No. 11 gauge copper bearing steel, and extend between bumper channels and body end sill, providing an anchorage for draw-bar casting.
- Bumpers are pressed out of No. 11 gauge copper bearing steel and extend between vestibule corner posts, connected to draft sills, anti-telescoping plates and posts. Anti-climbers are pressed from No. 11 gauge stainless steel, and anti-telescoping plates are made of No. 11 gauge copper bearing steel welded to bumpers, vestibule corner posts and draft sills. The upper surface of anti-telescoping plates are at floor level.
- Body end sills are formed as box section girders **to act as transverse ventilating ducts**. The ends of end sills are welded into side sills of car, so as to provide adequate area for the ventilating system, the end sills being made of No. 16 and No. 11 gauge Cor-Ten steel or equal.
- Sills at center doorway are formed as box section girders of Cor-Ten or equal steel to act as transverse ventilating ducts. **Provision has been made in these sills for installation of auxiliary heaters and dampers for heating system**, the girders also serving as part of the equipment compartment. Intermediate sills are of the fish bellied type with ends welded into side sills of car. Flooring supports are welded at ends to side sills, and in the center to bolster members.

- The body bolster comprises four transverse members extending from center casting to side sills, and of two longitudinal members extending from center casting to cross sills. The six beams of bolster with the two cross sills provide eight points of support for the car body weight. The center casting provides the center bearing and carries the center pin tube. Bolsters are built of S. A. E. 1035 steel, and the center casting with integral center pin tube is of electric furnace vanadium steel. Draw bar pockets are made of aluminum alloy, located under bumpers between draft sills.

PROVISION FOR VENTILATION OF MOTORS

- Ventilation for motors is taken from the side of the car between transverse radial beams, and is carried by ducts terminated in a vertically adjustable frame, sliding over a corresponding opening in the motor commutator housing. Ducts are made of Cor-Ten steel, or equal.

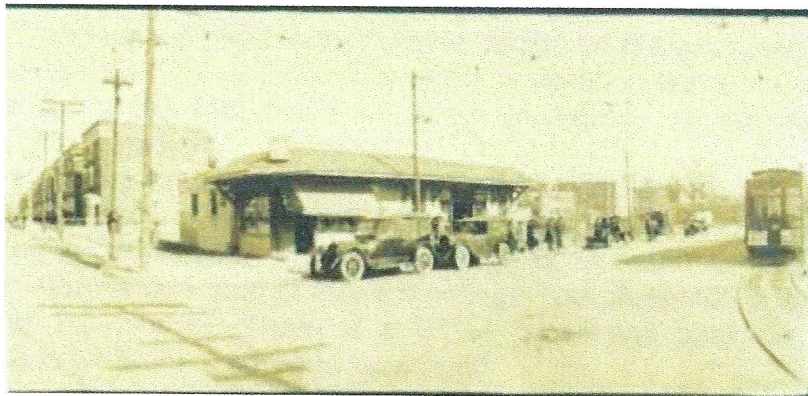
ACCESSORIES AND TRIM

- All necessary accessories are included and properly applied in the P. C. C. Car. Proper provision has been made for energy saving devices and fare collection systems and registers. Advertising racks take the standard size card. The pull cord signal system has been neatly installed and close-fitting hinged covers have been provided over the door openings to house the door operating mechanism.
- The batteries at the rear of the car are placed in a compartment built into the car structure. The hinged doors of this battery compartment swing outwardly. This arrangement makes the battery sets readily accessible at a convenient height. Curtain box moldings are of aluminum section, extending full length along both sides of the car, except at door openings, and continue around the rear vestibule. This neat molding arrangement greatly enhances the appearance of the interior of the car.
- All side windows are equipped with curtains, mounted on all-metal rollers with rubber noise insulating fixtures.

SEATS

- Cross seats have spring upholstered cushions and padded backs, covered with No. 1 machine buffed leather, and they are mounted in welded tube framing. The back of seat backs is of metal, painted to match color of leather, and the top member of the seat frame forms a grab rail. Seats have one pedestal.
- Transverse and longitudinal seats have cushions and backs of the same construction as cross seats. One operator's seat is located as shown in the illustration, and is arranged for adjustment fore and aft, and vertically.
- A destination sign with a glass opening 8 inches by 50 inches mounted in the front hood has a single roller curtain having 6-inch letters maximum and not more than thirty exposures. This sign is so designed and installed that inside of glass may be cleaned from vestibule of car.

- Sign mechanism and curtains are easily removable, and operation of sign is by means of an operating handle extending through sign box into front vestibule above operator's position. Four lamps, similar to those installed in car body, are mounted in destination sign box. A roller curtain sign, illuminated from interior of car, providing for 4-1/2-inch letters is installed in first side window to the rear of doorway.
- Each car is equipped with a non-glare rear vision mirror, and a combination of mirrors capable of providing the operator with a distinct view of the exit door step as well as the street area adjacent to the exit door for a distance of about six feet beyond the side of the car body.
- A 14-inch diameter single stroke air operated gong operated by a hand button is located under the front platform. An instrument and control board is mounted at operator's position, having all switches, toggle type, air gauges, etc. A St. Louis Car Co. H. B. type life guard is installed under front platform with provision for latching the basket in the raised position. The hand brake is of the lever and ratchet type, capable of providing 100 per cent braking on the forward truck, and is designed for the addition of similar braking on rear truck.
- The signal system is battery-operated with cords on each side of car, each cord being connected to a pull switch operating a 12-volt buzzer.
- Trolley catcher is of "streamlined design" complete with mounting bracket and rope.
- Window wipers are provided on each front windshield, air operated with provision for manual operation. Each wiper is controlled by a separate valve. – *Continued next month.*



This 1923 photograph (above) is one section of a 360 degree panorama, showing the corner of Kingsland Avenue and Enright Avenue. The streetcar on the right is making the loop and will turn left onto Kingsland and then onto Delmar to return to downtown St. Louis. The advertisement posted on the front of the streetcar is promoting the new movie, "Flaming Youth" starring Colleen Moore. A sign on the single story building at the corner reads "Delmar Loop Station" and the shop offered lunch, ice cream, hot and cold drinks and home-made chocolates. Riders could catch the streetcar or pay a bit more to take one of the service cars that waited along Enright.