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McKoy

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(54) **WATERCRAFT AMUSEMENT RIDE**

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(52) **U.S. Cl.** **104/59**; 104/70; 104/292

(58) **Field of Search** 104/23.1, 23.2, 104/59, 70, 71, 72, 73, 281, 282, 290, 292

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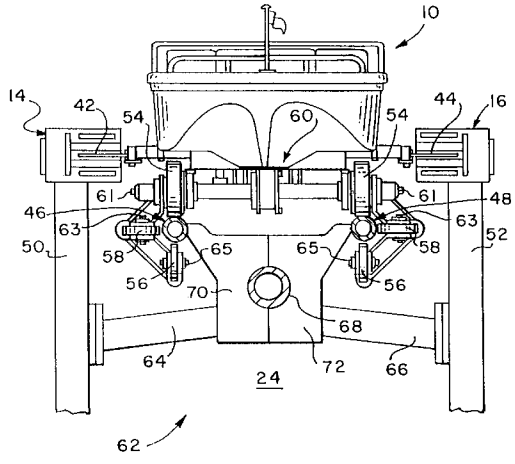
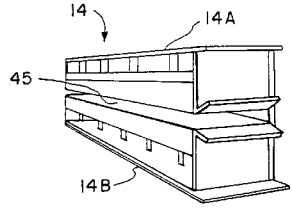
(57) **ABSTRACT**

Passenger boats are mounted on an undercarriage assembly that includes rail-mounted centering wheels. The passenger boats are accelerated by linear induction drive motors mounted on a guide rail structure. Thrust is applied to the racing boats by magnetically conductive reaction plates that are attached to the undercarriage assembly and are movable through linear flux slots formed in the induction stators of the linear induction motors. The submerged guide track structure is arranged in various closed loop courses, including "Figure-Eight," an hour-glass, serpentine and oval patterns, as well as parallel guide track structures that extend between a launch station and a return station. A dual "Figure-Eight" watercourse includes a simulated jump ramp and an underground tunnel arrangement. In the continuous loop guide structure, two or more boats are launched and separation is maintained by a safety block arrangement.

17 Claims, 8 Drawing Sheets