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(71) Applicant: UNIVERSAL CITY STUDIOS LLC
[US/US]; 100 Universal City Plaza, Universal City, California 91608 (US).

(72) Inventor: VANCE, Eric Allan; 1000 Universal Studios
Plaza, Orlando, Florida 32819 (US).

(74) Agent: POWELL, W. Allen et al.; P.O. Box 692289, Houston, Texas 77269 (US).

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(54) Title: SYSTEMS AND METHODS FOR FLUID BEARING-BASED TRANSLATION SYSTEMS

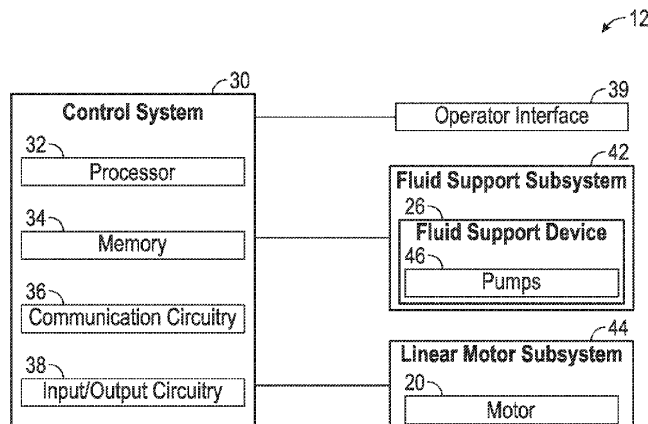


FIG. 2

(57) Abstract: A fluid bearing system includes a rotor and a linear motor subsystem having a plurality of linear motors that provide a forward thrust to the rotor. The fluid bearing system also includes a fluid bearing subsystem having a plurality of fluid conduits and a pump. Further, the fluid bearing system also includes a control system communicatively coupled to the plurality of fluid outlets and the pump. The control system activates the pump to direct a fluid flow from the plurality of fluid outlets, wherein the provides a lift force to the rotor via the plurality of fluid outlets that is substantially perpendicular to the forward thrust.

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