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**Odeh**

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(54) **BIO-HYDRAULIC TURBINE TESTING SYSTEM**

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(58) **Field of Search** ..... **119/201, 215, 119/219, 221; 405/81, 82, 83**

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(57) **ABSTRACT**

A bio-hydraulic testing system is provided for simulating the effect on fish of at least one hydraulic system component. A water flow introduction device introduces a flow of water into the testing system, and a fish introduction means introduces a plurality of fish into the testing system. A flow introduction conduit receives a flow containing water from the flow introduction device and fish from the fish introduction device. A testing module receives the flow from the flow introduction conduit. Monitoring device monitor and record fish activity in the water flow in the testing module. Fish exit the testing module into a flow exit conduit, and are collected by fish collection device located downstream of the exit conduit. Finally, discharge device discharge the water from the testing system.

**21 Claims, 9 Drawing Sheets**

