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United States Patent [19][11] **Patent Number:** **5,798,572****Lehoczky**[45] **Date of Patent:** **Aug. 25, 1998**[54] **UNDER WATER HYDRO-TURBINE ENERGY GENERATOR DESIGN**5,100,290 3/1992 Berger 415/60
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5,494,466 2/1996 Vernea 440/75[76] **Inventor:** **Kalman N. Lehoczky**, 6156 9th Ave.
Cir. NE., Bradenton, Fla. 34202*Primary Examiner*—Steven L. Stephan
Assistant Examiner—Nicholas Ponomarenko[21] **Appl. No.:** **632,668**[57] **ABSTRACT**[22] **Filed:** **Apr. 15, 1996**[51] **Int. Cl.⁶** **F03B 13/10**[52] **U.S. Cl.** **290/54; 290/43; 60/506**[58] **Field of Search** 290/54, 52, 43;
415/3.1, 4.1, 906, 168.1, 168.2, 168.4,
122.1, 124.1, 124.2[56] **References Cited****U.S. PATENT DOCUMENTS**4,026,587 5/1977 Hultman et al. 290/53
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Hydro-turbine driven electrical generating unit, contained in a water tight bulb housing and submerged in a water current, is comprised of a rigid frame supporting a rotating system, consisting of a combination of turbine runner, turbine shaft, turbine shaft seal, bearings, speed-increasing transmission, generator, and couplings, and a central terminal block for the connection of power, measuring and control cables and tubes. The generating unit can be tested, adjusted and maintained outside of the bulb housing and the generating unit can be lifted and installed into or removed from the bulb housing. The bulb housing contains small side wall openings corresponding with the connection points between the generating unit and the bulb housing.

7 Claims, 2 Drawing Sheets