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Sign and Fax this to (301) 480-0272 703-696-6909 Carol Petrosky. ONR Invention Title: Design of Hydraulic Pump Based on Membrane Actuator Made of FSMA Composite Inventor(s): Minioru Taya, Harry Sugandi, Robert Yuanchang Liang, Hsiuhung Chen, Victor Cheng, Chi-Yuan Wang 9/8/2005 U.S. Filing/Issue Date: Patent or Application Serial No.: 11/222,022 Grant/Contract Number(s): N00014-00-1-0520, N00014-02-1-0689 Foreign Applications filed/intended in (countries): The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United State Government. This document is confirmatory of: 1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. Signed this By Charles R. Williams, J.D., Ph.D. (Name of Grantee/Contractor Official) Title Director, UW TechTransfer - Digital Ventures For UNIVERSITY OF WASHINGTON (Grantee/Contractor Organization) At 4311 11th Ave. NE Suite 500 Seattle, WA 98105 US (Business Address)

Invention Patent Ref#04-0111-00, EIR Ref#9087701-04-0113, UW Ref#7033D (C/R 7104D,7064D, 7049D,7188D)

PATENT REEL: 021401 FRAME: 0572

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