

04-14-2006



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PATENTS

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Name: NAVY, SECRETARY OF THE, UNITED STATES

Internal Address: OF AMERICA

OFFICE OF NAVAL RESEARCH

Street Address: 875 NORTH RANDOLPH STREET

City: ARLINGTON

State: VA

Country: USA Zip: 22203-1995

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

A. Patent Application No.(s)

11/222,022

☐ This document is being filed together with a new application.  
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: CAROL PETROSKY

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**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
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JAMES BECHTEL  
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Total number of pages including cover sheet, attachments, and documents: 2

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Invention Title: Design of Hydraulic Pump Based on Membrane Actuator Made of FSMA Composite

Inventor(s) Name: Minoru Taya, Hsiuhung Chen, Victor Chen, Chiyuan Wang, Yuanchang Liang, Harry Sugandi, Dong-Teak Chung

UW Ref#: 7033D

U.S. Application Number: 11/222,022

Patent Title: Actuators Based On Ferromagnetic Shape Memory Alloy Composites

Filing Date: 9/8/2005

Country, if other than United States:

This subject invention was conceived or first actually reduced to practice in performance of the government-funded projects, U.S. Navy Contract Number(s) N00014-02-1-0689, and N00014-00-1-0520.

Principal rights to this subject invention have been left with the Licensor: The University of Washington subject to the provisions of 37 CFR 401 and 45 CFR 8.

Signed: Paula Szoka

Date: 1/26/06

Name: Paula Szoka, Ph.D.

Title: Director  
Invention Licensing  
UW TechTransfer  
University of Washington

C/R file(s) 7104D, 7064D, 7049D, 7188D

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