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Sign and Fax this to (301) 480-0272 Invention Title: Substrate-Independent Distributed Bragg Reflector consisting of Amorphous or Polycrystalline Semiconductors and Oxides Formed by Oxidation of A1-bearing Amorphous or Polycrystalline Semiconductors. Inventor(s): Kuang-Chien Hsieh, Keh-Yung Cheng, David E. Wohlert, Gregory W. Pickrell, Kuo-Lih Chang, Hung-Cheng Lin, John Epple U.S. Filing/Issue Date: 07/29/2003 Patent or Application Serial No.: 6599564 Grant/Contract Number(s): ECD8943166 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 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. day of Hugust, 2003.

Steplen K. Ruger
(Signature) Signed this By Stephen K. Rugg (Name of Grantee/Contractor Official) Title Vice President of Administration, Comptroller For UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN (Grantee/Contractor Organization)

> PATENT REEL: 014957 FRAME: 0961