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Sign and Fax this to (301) 480-0272 Invention Title: Formation of Large-grain Silicon by Addition of Oxide Layer (SiO2) in Lowcomperature, Rapid aluminum-Induced Crystallization Inventor(s): Hamsed A. Naseam, Marwan Barghouti U.S. Filling/Issue Date: <u>10-25-</u>04 Patent or Application Serial No.: 10/012,760 Grant/Contract Number(s): DE+FGC2-02ER45969 Foreign Applications filed/intended in (countries): $\mathcal{U} \subseteq_{\mathcal{I}} \Delta$ The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Petent 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. For UNIVERSITY OF ARKANSAS AT FAYETTEVILLE (Grantee/Contractor Organization) At 535 Research Center Boulevard, Stc 107 Fayetteville, AR 72701 US (Business Address)

> PATENT REEL: 019252,FRAME: 0897 ***