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**S-119,510**

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**4. Application or patent number(s):**  
A. Patent Application No.(s)  
Serial No. 13/694,846  
Additional numbers attached?  Yes  No

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

**5. Name and address to whom correspondence concerning document should be mailed:**  
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**6. Total number of applications and patents involved:** 1  
**7. Total fee (37 CFR 1.21(h) & 3.41) \$** \_\_\_\_\_  
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**9. Signature:** [Signature] 12/4/2013  
Signature Date  
Michael J. Dobbs #58,093  
Name of Person Signing Total number of pages including cover sheet, attachments, and documents: **2**

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**PATENT**

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Invention Title: Carbothermic-Silicide Method of Preparing Rare Earth Master Alloys Containing 5 to 40 Atomic Percent Silicon from the Respective Oxides

Inventor(s): Karl A Gschneidner, Frederick A Schmidt

U.S. Filing/Issue Date: 1.10.2013

Patent or Application Serial No.: 13/694,846

Grant/Contract Number(s): DE-AC02-07CH11358

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:

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The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 10th day of June, 2013.

By Hisa Lorenzen (Institutional Business Official) [Signature] (Signature)

Title Executive Director

For IOWA STATE UNIVERSITY OF SCIENCE & TECH (Grantee/Contractor Organization)

At Iowa State University Research Foundation, Inc. 310 Lab of Mechanics Ames, IA 50011 US (Business Address)