

FORM PTO-1619A

Expires 06/30/99
OMB 0651-0027U.S. Department of Commerce
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S-103051

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Name (line 1) GENERAL ELECTRIC COMPANY

Execution Date
Month Day Year

2/18/2004

Name (line 2)

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Name (line 1)

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Name (line 2)

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Name (line 1) U. S. Department of Energy

Name (line 2)

Address (line 1) 1000 Independence Avenue, S.W.

Address (line 2)

Address (line 3) Washington

City

D.C.

State/Country

20585-0162

Zip Code

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FORM PTO-1619B

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U.S. Department of Commerce
Patent and Trademark Office
PATENT

Correspondent Name and Address

Area Code and Telephone Number

202-586-2810

Name Betty A. WinchesterAddress (line 1) U. S. Department of EnergyAddress (line 2) 1000 Independence Avenue, S.W.Address (line 3) Washington, D. C. 20585-0162Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document
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Application Number(s) or Patent Number(s)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

10/652,906

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application
was

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 0.00

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Deposit Account

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PATENT

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10/652,906

CONFIRMATORY LICENSE
(Large Business - Advance Waiver)

Title: Apparatus and Method for Producing Single Crystal Metallic Objects
Inventor(s): Shyh-Chin Huang; Michael Francis X. Gigliotti; Stephen Francis Rutkowski; Roger John Petterson and Paul Steven Svcc

Serial No: 10/652,906 Filing Date (U.S.): September 2, 2003

Contractor: General Electric Company

DOE Contract No.: 85X-SZ581C; DE-AC05-00OR22725

DOE Case No.: S-103,051

GE Docket No. 122461

Patent Rights Clause No.:

DOE Advance Waiver No.: W(A)-02-010; ORO-769

Foreign Applications filed in or intended to be filed at Contractor's expense in (countries):

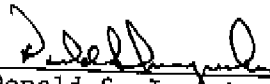
ALL COUNTRIES OF THE WORLD

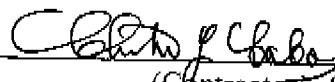
An advance waiver of Government rights having been granted by the U. S. Department of Energy (DOE) to the Contractor, and the above-identified invention having been reported as a Subject Invention to DOE by the Contractor with its election to file a domestic patent application thereon, the effective date of said waiver for the above invention is March 18, 1998.

Accordingly, this document is confirmatory of the paid-up license required to be granted to the Government under 41 CFR 9-9.109-6 and the above-identified contract in this invention, patent application and any resulting patent as well as any continuation, divisional, reissue or supplemental thereof, and of all other rights acquired by the Government by the referenced patent rights clause, a copy of which is attached hereto and incorporated by reference herein. The undersigned certifies the attached copy to be a true copy of said clause. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

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

Signed this 18th day of February, 2004


Donald S. Ingraham
Attesting Secretary


(Contractor's Signature)

By Christian G. Cabou - General Counsel
(Contractor's Official Name and Title)

GE - Global Research
PO Box 8
Schenectady, NY 12301

Seal

(Business Address)