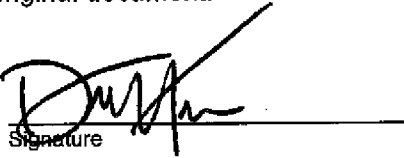


Substitute Form PTO-1595
Attorney Docket No.: 12406-109US1
Client's Ref. No.: P2002,0639 US N

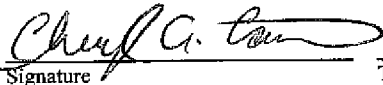
RECORDATION FORM COVER SHEET
PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Stefan Groetsch Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): OSRAM GmbH Hellabrunner Str. 1 D-81543 München GERMANY Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 03/15/2005	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 10/522,518 B. Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: DAVID L. FEIGENBAUM Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> David L. Feigenbaum Reg. No. 30,378 Name of Person Signing  Signature 3/17/5 Date	
Total number of pages including coversheet, attachments and document: 3	

21049262.doc

CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

3-17-05
Date of Transmission

Signature
CHERYL A. CARON
Typed Name of Person Signing Certificate

PATENT

CH \$40.00 061050 10522518

16-MAR-2005 16:09
14-MAR-2005 15:36FA.EPPING
EPPING HERMANN FISCHER+49 89 50032999 003
49 89 50032999 S.05/28

Attorney Docket No: 12406-109US1 P2002,0639 US N

ASSIGNMENT

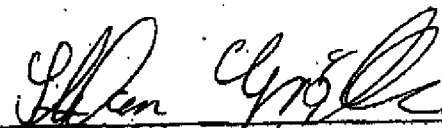
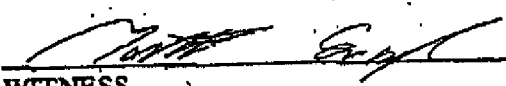
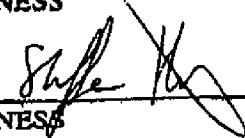
For valuable consideration, I, Stefan Groersch, of Waldstrasse 6, 93077 Lengfeld/Bad Abbach, Germany; hereby assign to OSRAM GMBH, a corporation of Germany, having a place of business at Hellabrunner StraÙe 1, D-81543 München, Germany, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled SEMICONDUCTOR DEVICE WITH A COOLING ELEMENT, filed January 27, 2005, and assigned U.S. Serial Number 10/522,518, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 2

Fax S Un ID: 49 89 50032999 an: 2522 14.03.2005 15:16 [00:07:55] OK S.005/028

PATENT
REEL: 015914 FRAME: 0501

Attorney Docket No: 12406-109US1 P2002,0639 US N

DATE: March 15th 2005 
STEFAN GROETSCH
DATE: March 15th 2005 
WITNESS
DATE: March 15th 2005 
WITNESS

21041724.doc

Assignment Page 2 of 2

Fax S Von ID: 49 89 50032999 an: 2522 14.03.2005 15:46 [00:07:55] OK S.006/028