

01-29-2003

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To the Honorable Commissioner of Pat

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Joerg KANDLER, Ewald MOERSEN, Burkhard SPEIT,
Hary BUAER, Thure BOEHM, Eric EVA, Michael THIER,
Hexin WANG, Frank RICHTER, Hans-Josef PAUS

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: SEP. 17 22,,24,25, 26, OCT. 11,29, 2002

2. Name and address of receiving party(ies):

Name: SCHOTT GLAS

Address: HATTENBERGSTRASSE 10

City: MAINZ

State/Prov.:

Country: GERMANY

ZIP: 55122

Additional name(s) & address(es)

☒ Yes ☐ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

10/230,232

08/28/2001

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: MICHAEL J. STRIKER

Registration No. 27233

Address: 103 EAST NECK ROAD

City: HUNTINGTON

State/Prov.: NY

Country: U.S.A.

ZIP: 11743

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

19-4675

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9. Statement and signature.

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.

MICHAEL J. STRIKER

Name of Person Signing

Signature

January 22, 2003

Date

8

Total number of pages including cover sheet, attachments, and

PATENT

REEL: 013690 FRAME: 0588

SECOND ASSIGNEE:

Name: **CARL ZEISS SEMICONDUCTOR
MANUFACTURING TECHNOLOGIES AG**

Address: **Oberkochen, Germany**

ASSIGNMENT

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below), or a joint inventor (if plural inventors are listed below), of an invention described in an application for a United States Patent of Prior Application entitled:

METHOD OF MAKING A FRACTURE-RESISTANT CALCIUM FLUORIDE SINGLE CRYSTAL AND ITS USE

Executed by me on the date indicated next to my name and address:



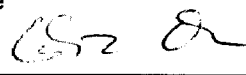
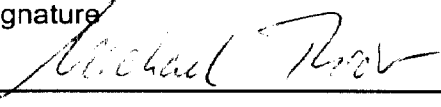

Sell and assign equally to **SCHOTT GLAS of Mainz, Germany and CARL ZEISS SEMICONDUCTOR MANUFACTURING TECHNOLOGIES AG of Oberkochen, Germany**

their successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for a United States Patent;

and in and to all applications for patent(s) for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representative all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

The undersigned hereby grant(s) the firm of STRIKER, STRIKER & STENBY the power to insert on this assignment any further identification or modification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Signature: <i>Joerg Kandler</i>	Date: <i>09/26/2002</i>	Residence and Full Postal Address: Brandstroemstrasse 11 07749 Jena Germany
Full Name of First or Sole Inventor: Joerg KANDLER	Witness: <i>Heike Batsmann</i>	
Signature: <i>Dr. Ewald Moersen</i>	Date: <i>10/11/2002</i>	Residence and Full Postal Address: Hans-Zoeller-Strasse 21D 55130 Mainz Germany
Full Name of Second Inventor: Ewald MOERSEN	Witness: <i>Heike Batsmann</i>	
Signature: <i>B. Speit</i>	Date: <i>09/24/2002</i>	Residence and Full Postal Address: Talstrasse 14 <i>Pliniusweg 20</i> 07749 Jena <i>55126 Mainz</i> Germany
Full Name of Third Inventor: Burkhard SPEIT	Witness: <i>W. Batsmann</i>	

Signature: 	Date: Sept 24 th 2002	Residence and Full Postal Address: Wittelsbacher Strasse 2 73432 Aalen-Ebnat Germany
Full Name of Fourth Inventor: Harry BAUER	Witness: J. Bach	
Signature: 	Date: Sept. 17, 2002	Residence and Full Postal Address: Huettfeldstrasse 8 73430 Aalen Germany
Full name of Fifth Inventor: Thure BOEHM	Witness: E. Angstenberger	
Signature: 	Date: Sept. 25, 2002	Residence and Full Postal Address: Waldstrasse 43 Hegelstr. 14/4 73432 Aalen Germany
Full name of Sixth Inventor: Eric EVA	Witness: E. Angstenberger	
Signature: 	Date: Sept 24, 2002	Residence and Full Postal Address: In den Hoefen 19 73563 Moegglingen Germany
Full name of Seventh Inventor: Michael THIER	Witness: E. Angstenberger	
Signature: 	Date: Sept. 17. 2002	Residence and Full Postal Address: Wollenbergstrasse 35 89552 Koenigsberg Germany
Full name of Eighth Inventor: Hexin WANG	Witness: E. Angstenberger	
Signature:	Date:	Residence and Full Postal Address: Fabrikstrasse 3 5600 Lenzburg Switzerland
Full name of Ninth Inventor: Frank RICHTER	Witness:	
Signature:	Date:	Residence and Full Postal Address: Zuericher Strasse 12 70376 Stuttgart Germany
Full name of Tenth Inventor: Hans-Josef PAUS	Witness:	

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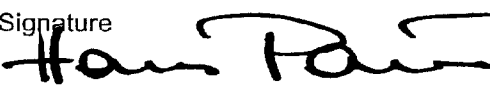

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MANUFACTURING TECHNOLOGIES AG of Oberkochen, Germany**

their successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for a United States Patent;

and in and to all applications for patent(s) for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representative all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

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Signature:	Date:	Residence and Full Postal Address: Brandstroemstrasse 11 07749 Jena Germany
Full Name of First or Sole Inventor: Joerg KANDLER	Witness:	
Signature:	Date:	Residence and Full Postal Address: Hans-Zoeller-Strasse 21D 55130 Mainz Germany
Full Name of Second Inventor: Ewald MOERSEN	Witness:	
Signature:	Date:	Residence and Full Postal Address: Talstrasse 14 07749 Jena Germany
Full Name of Third Inventor: Burkhard SPEIT	Witness:	

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Signature:	Date:	Residence and Full Postal Address: Huettfeldstrasse 8 73430 Aalen Germany
Full name of Fifth Inventor: Thure BOEHM	Witness:	
Signature	Date:	Residence and Full Postal Address: Waldstrasse 43 73432 Aalen Germany
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Signature	Date:	Residence and Full Postal Address: In den Hoefen 19 73563 Moegglingen Germany
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Signature	Date:	Residence and Full Postal Address: Wollenbergstrasse 35 89552 Koenigsberg Germany
Full name of Eighth Inventor: Hexin WANG	Witness:	
Signature	Date:	Residence and Full Postal Address: Fabrikstrasse 3 5600 Lenzburg Switzerland
Full name of Ninth Inventor: Frank RICHTER	Witness:	
Signature 	Date: 29-10-02	Residence and Full Postal Address: Zuericher Strasse 12 70376 Stuttgart Germany
Full name of Tenth Inventor: Hans-Josef PAUS	Witness: 	

29.10.02

ASSIGNMENT

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below), or a joint inventor (if plural inventors are listed below), of an invention described in an application for a United States Patent of Prior Application entitled:

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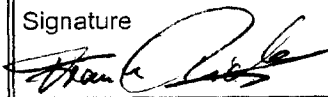
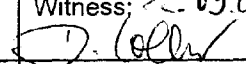
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their successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for a United States Patent;

and in and to all applications for patent(s) for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representative all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

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Signature:	Date:	Residence and Full Postal Address: Talstrasse 14 07749 Jena Germany
Full Name of Third Inventor: Burkhard SPEIT	Witness:	

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Full name of Fifth Inventor: Thure BOEHM	Witness:	
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Full name of Seventh Inventor: Michael THIER	Witness:	
Signature	Date:	Residence and Full Postal Address: Wollenbergstrasse 35 89552 Koenigsberg Germany
Full name of Eighth Inventor: Hexin WANG	Witness:	
Signature 	Date: 22 Sept. 2002	Residence and Full Postal Address: Fabrikstrasse 3 5600 Lenzburg Switzerland
Full name of Ninth Inventor: Frank RICHTER	Witness: 22.09.02 	
Signature	Date:	Residence and Full Postal Address: Zuericher Strasse 12 70376 Stuttgart Germany
Full name of Tenth Inventor: Hans-Josef PAUS	Witness:	