



RECOF

12-23-2004



U.S. Department of Commerce  
Patent and Trademark Office

Our Ref.: 3691-751

**Mail Stop Assignment Recordation Service**

Commissioner of Patents P.O. Box 1450  
Alexandria, VA 22313-1450

102913282

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jose FERREIRA  
Jean-Marc LEMMER  
Jens-Peter MÜLLER  
Scott V. THOMSEN

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

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

Execution Date: Nov. 12, 2004 respectively, Dec. 1,  
2004; Nov. 23, 2004,

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

Name: Centre Luxembourgeois de Recherches pour le  
Verre et la Ceramique S.A. (C.R.V.C.)

Internal Address:

Street Address: Zone Industrielle Wolser

City: Dudelange

State/Country: Grand Duché de Luxembourg

Zip: L-3452

Additional name/s & address/es attached? ☒ Yes ☐ No

4. Application number(s) or patent number(s):

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

A. Patent Application No(s).

(1) 10/931,212  
(2)  
(3)

B. Patent No(s).

(1)  
(2)  
(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: Joseph A. Rhoa

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8<sup>th</sup> Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements 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.

Joseph A. Rhoa

Name of Person Signing

Reg. No. 37,515

Signature

December 15, 2004

Date

Total number of pages including original cover sheet, attachments, and document: [10]

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PATENT  
REEL: 016088 FRAME: 0751

RECORDATION FORM COVER SHEET

PATENTS ONLY

Our Ref: 3691-751

Commissioner of Patents and Trademarks  
Box Assignment, P.O. Box 1450  
Alexandria, VA 22313-1450

1. Name of conveying party(ies):	
2. Name: Guardian Industries Corp. Street Address: 2300 Harmon Road City: Auburn Hills State: Michigan Zip: 48326-1714	
4. Application number(s) or patent number(s):	
A. Patent Application No(s).	B. Patent No(s).
(4)	(4)
(5)	(5)
(6)	(6)
(7)	(7)
(8)	(8)
(9)	(9)

**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS, Jose FERREIRA of 52 Cité Kirchberg, Rumelange, L-3733 Grand-Duchy of Luxembourg, Jean-Marc LEMMER of 71, rte de Luxembourg, Lorentzweiler, L-7373, Grand-Duchy of Luxembourg, and Jens-Peter MÜLLER of 38, Rue Belair, Differdange, L-4514 Luxembourg, (hereinafter ASSIGNORS) have made an invention entitled **COATED ARTICLE WITH LOW-E COATING INCLUDING IR REFLECTING LAYER(S) AND CORRESPONDING METHOD** for which a so-entitled application for Letters Patent of the United States was filed on **September 1, 2004**, under Serial No. **10/931,212**;

WHEREAS, Centre Luxembourgeois de Recherches pour le Verre et la Ceramique S.A. (C.R.V.C.), (hereinafter ASSIGNEE), having an office and place of business at Zone Industrielle Wolser, L-3452 Dudelange, Grand Duché de Luxembourg, is desirous of acquiring an interest therein;

NOW, THEREFORE, for valuable consideration the receipt and sufficiency of which are hereby acknowledged, the below listed of said ASSIGNORS by these presents, having sold, assigned and transferred, hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions,


reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the below listed ASSIGNORS hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

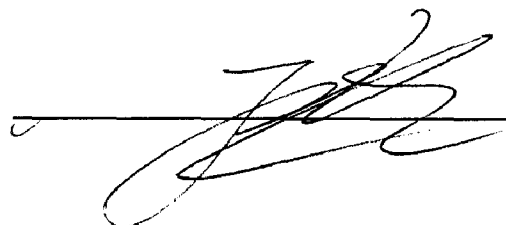
ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

✓ 4/12/2004  
Date

✓   
Jose FERREIRA

 Witness by: Jean-Marie Leuninger

**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS, Jose FERREIRA of 52 Cité Kirchberg, Rumelange, L-3733 Grand-Duchy of Luxembourg, Jean-Marc LEMMER of 71, rte de Luxembourg, Lorentzweiler, L-7373, Grand-Duchy of Luxembourg, and Jens-Peter MÜLLER of 38, Rue Belair, Differdange, L-4514 Luxembourg, (hereinafter ASSIGNORS) have made an invention entitled **COATED ARTICLE WITH LOW-E COATING INCLUDING IR REFLECTING LAYER(S) AND CORRESPONDING METHOD** for which a so-entitled application for Letters Patent of the United States was filed on **September 1, 2004**, under Serial No. **10/931,212**;

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reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the below listed ASSIGNORS hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

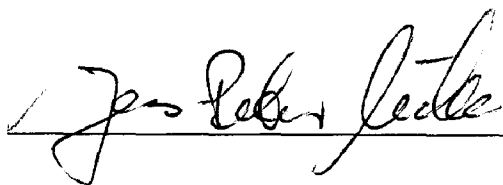
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ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

✓ 11/12/2004  
Date

✓   
Jean-Marc LEMMER

✓ 

Witness by:

Jens-Peter Mäller

**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS, Jose FERREIRA of 52 Cité Kirchberg, Rumelange, L-3733 Grand-Duchy of Luxembourg, Jean-Marc LEMMER of 71, rte de Luxembourg, Lorentzweiler, L-7373, Grand-Duchy of Luxembourg, and Jens-Peter MÜLLER of 38, Rue Belair, Differdange, L-4514 Luxembourg, (hereinafter ASSIGNORS) have made an invention entitled **COATED ARTICLE WITH LOW-E COATING INCLUDING IR REFLECTING LAYER(S) AND CORRESPONDING METHOD** for which a so-entitled application for Letters Patent of the United States was filed on **September 1, 2004**, under Serial No. **10/931,212**;

WHEREAS, Centre Luxembourgeois de Recherches pour le Verre et la Ceramique S.A. (C.R.V.C.), (hereinafter ASSIGNEE), having an office and place of business at Zone Industrielle Wolser, L-3452 Dudelange, Grand Duché de Luxembourg, is desirous of acquiring an interest therein;

NOW, THEREFORE, for valuable consideration the receipt and sufficiency of which are hereby acknowledged, the below listed of said ASSIGNORS by these presents, having sold, assigned and transferred, hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions,

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ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

12/07/04  
Date

Jens-Peter Müller  
Jens-Peter MÜLLER

[Signature] Witness by: Jean-Marie Lemer



**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS Scott V. THOMSEN (hereinafter ASSIGNOR) of 9017 Stoney Creek Drive, South Lyon, Michigan 48178 has made an invention entitled **COATED ARTICLE WITH LOW-E COATING INCLUDING IR REFLECTING LAYER(S) AND CORRESPONDING METHOD** for which a so-entitled application for Letters Patent of the United States was filed on **September 1, 2004** under Serial No. **10/931,212**;

WHEREAS, Guardian Industries Corp. (hereinafter ASSIGNEE), a corporation of the State of Michigan, having an office and place of business at 2300 Harmon Road, Auburn Hills, Michigan, 48326-1714 is desirous of acquiring an interest therein;

NOW, THEREFORE, for valuable consideration the receipt and sufficiency of which are hereby acknowledged, the below listed of said ASSIGNOR by these presents, having sold, assigned and transferred, hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres,


and the below listed ASSIGNOR hereby authorizes and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

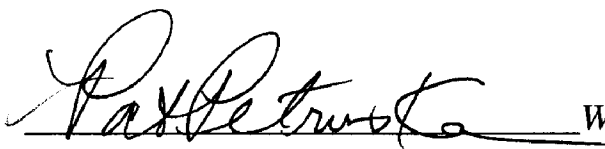
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

11/23/04  
Date

  
Scott V. THOMSEN

 Witnessed by: