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U.S. Department of Commerce United States Patent and Trademark Office

08-05-2010



Our Ref.: JAR-3691-2040 PATENTS ONLY 103603540 To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy mercon. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): 1 Hartmut KNOLL 5 Jose FERREIRA 1) Name: Centre Luxembourgeois de Recherches pour le 2 Jochen BUTZ 6 Pierrot PALLOTTA Verre et la Ceramique S.A. (C.R.V.C.) 3 Uwe KRILTZ 7 Street Address: Zone Industrielle Wolser 4 Bernd DISTELDORF Dudelange State/Country: Grand Duche de Zip: L-3452 Luxembourg Additional name/s of conveying party/ies attached? 3. Nature of conveyance: Name Guardian Industries Corp. Assignment Street Address: 2300 Harmon Road Merger Security Assignment Change of Name City: Auburn Hills State: Michigan Zip: 48326-1714 **Execution Date:** June 30, 2010; July 19, 2010; June 30, Additional name/s & address/es attached? Yes No 2010, respectively; June 25, 2010; June 28, 2010 4. Application number(s) or patent number(s): This assignment is being filed together with a new application. A. Patent Application No(s). B. Patent No(s). (1) 12/662,562 (1) (2) (2)(3)(3) Additional numbers attached Yes No 5. Name and address of party to whom correspondence 6. Total number of applications & patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41) 40.00 □ Enclosed Joseph A. Rhoa Name: Authorized to be charged to deposit account #14-1140 Internal Address: 8. The Commissioner is hereby authorized to charge any Street Address: Nixon & Vanderhye P.C. deficiency in the fee(s) filed, or asserted to be filed, or which 901 North Glebe Road should have been filed herewith (or with any paper thereafter 11th Floor filed in this application by this firm) to our Account No. 22203 City: Arlington State: VA 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 August 2, 2010 Name of Person Signing ig **h**ature Reg. No. 37,515

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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

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1665687

PATENT REEL: 024796 FRAME: 0119

WHEREAS, Hartmut KNOLL of Puschkinstrasse 41, Bitterfeld, Wolfen, Germany D-06749; Jochen BUTZ of Gutsmuth-Str. 2a, Wolfen, Germany D-06766; Uwe KRILTZ of Am Moenchenberge 5, Jena, Germany D-07751; Jose FERREIRA of 52 Cite Kirchberg, Rumelange, Grand Duchy of Luxembourg L-3733 and Pierrot PALLOTTA of 30 rue des Chataigniers, Villerupt, France F-54190, (hereinafter ASSIGNORS) have made an invention entitled COATED ARTICLE HAVING LOW-E COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010, under Serial No. 12/662,562;

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:

2010

Hartmut KNOLL

Witness by:

Uwe Kriltz

WHEREAS, Hartmut KNOLL of Puschkinstrasse 41, Bitterfeld, Wolfen, Germany D-06749; Jochen BUTZ of Gutsmuth-Str. 2a, Wolfen, Germany D-06766; Uwe KRILTZ of Am Moenchenberge 5, Jena, Germany D-07751; Jose FERREIRA of 52 Cite Kirchberg, Rumelange, Grand Duchy of Luxembourg L-3733 and Pierrot PALLOTTA of 30 rue des Chataigniers, Villerupt, France F-54190, (hereinafter ASSIGNORS) have made an invention entitled COATED ARTICLE HAVING LOW-E COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010, under Serial No. 12/662,562;

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PATENT 7 8 122 REEL: 024796 FRAME: 0122

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:

WHEREAS, Hartmut KNOLL of Puschkinstrasse 41, Bitterfeld, Wolfen, Germany D-06749; Jochen BUTZ of Gutsmuth-Str. 2a, Wolfen, Germany D-06766; Uwe KRILTZ of Am Moenchenberge 5, Jena, Germany D-07751; Jose FERREIRA of 52 Cite Kirchberg, Rumelange, Grand Duchy of Luxembourg L-3733 and Pierrot PALLOTTA of 30 rue des Chataigniers, Villerupt, France F-54190, (hereinafter ASSIGNORS) have made an invention entitled COATED ARTICLE HAVING LOW-E COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010, under Serial No. 12/662,562;

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,

PATEŇŤ²⁰ REEL: 024796 FRAME: 0124 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:

Date

Witness

Hwe KRII T7

Hartmut Knol

WHEREAS, Bernd DISTELDORF of Langwiese 10, Mettlach, Germany D-66693, has made an invention entitled COATED ARTICLE HAVING LOW-E

COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010 under Serial No.

12/662,562;

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,

1649945

REEL: 024796 FRAME: 0126

and the below listed ASSIGNOR 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;

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:

√ 6-30-2010 Date

Bernd DISTELDORF

Willen Syry

_witness by:

-2-

WHEREAS, Hartmut KNOLL of Puschkinstrasse 41, Bitterfeld, Wolfen, Germany D-06749; Jochen BUTZ of Gutsmuth-Str. 2a, Wolfen, Germany D-06766; Uwe KRILTZ of Am Moenchenberge 5, Jena, Germany D-07751; Jose FERREIRA of 52 Cite Kirchberg, Rumelange, Grand Duchy of Luxembourg L-3733 and Pierrot PALLOTTA of 30 rue des Chataigniers, Villerupt, France F-54190, (hereinafter ASSIGNORS) have made an invention entitled COATED ARTICLE HAVING LOW-E COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010, under Serial No. 12/662,562;

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;

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1649948

PATENT REEL: 024796 FRAME: 0128 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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AGREED and executed as noted below:

Date

V 25/6/2010 Witness by:

Jose FERREIRA

- 2 -

WHEREAS, Hartmut KNOLL of Puschkinstrasse 41, Bitterfeld, Wolfen, Germany D-06749; Jochen BUTZ of Gutsmuth-Str. 2a, Wolfen, Germany D-06766; Uwe KRILTZ of Am Moenchenberge 5, Jena, Germany D-07751; Jose FERREIRA of 52 Cite Kirchberg, Rumelange, Grand Duchy of Luxembourg L-3733 and Pierrot PALLOTTA of 30 rue des Chataigniers, Villerupt, France F-54190, (hereinafter ASSIGNORS) have made an invention entitled COATED ARTICLE HAVING LOW-E COATING WITH ABSORBER LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on April 22, 2010, under Serial No. 12/662,562;

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1649948

PATENT REEL: 024796 FRAME: 0130 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:

Date Pierrot PALLOTTA

28/6/2010 Witness by:

- 2 -