

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Afonso KRELING</td> <td>04/19/2013</td> </tr> <tr> <td>Fabiola RAMOS TORRES</td> <td>04/23/2013</td> </tr> <tr> <td>Juan BAILLO ABREU</td> <td>04/19/2013</td> </tr> <tr> <td>Willem DEN BOER</td> <td>04/19/2013</td> </tr> <tr> <td>Alexey KRASNOV</td> <td>04/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Afonso KRELING	04/19/2013	Fabiola RAMOS TORRES	04/23/2013	Juan BAILLO ABREU	04/19/2013	Willem DEN BOER	04/19/2013	Alexey KRASNOV	04/18/2013
Name	Execution Date												
Afonso KRELING	04/19/2013												
Fabiola RAMOS TORRES	04/23/2013												
Juan BAILLO ABREU	04/19/2013												
Willem DEN BOER	04/19/2013												
Alexey KRASNOV	04/18/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Guardian do Brasil Vidros Planos Ltda.</td> </tr> <tr> <td>Street Address:</td> <td>Rua Fernando Bernadelli 2000, Porto Real</td> </tr> <tr> <td>City:</td> <td>Rio de Janeiro</td> </tr> <tr> <td>State/Country:</td> <td>BRAZIL</td> </tr> <tr> <td>Postal Code:</td> <td>CEP 27570-000</td> </tr> </table>		Name:	Guardian do Brasil Vidros Planos Ltda.	Street Address:	Rua Fernando Bernadelli 2000, Porto Real	City:	Rio de Janeiro	State/Country:	BRAZIL	Postal Code:	CEP 27570-000		
Name:	Guardian do Brasil Vidros Planos Ltda.												
Street Address:	Rua Fernando Bernadelli 2000, Porto Real												
City:	Rio de Janeiro												
State/Country:	BRAZIL												
Postal Code:	CEP 27570-000												
<table border="1"> <tr> <td>Name:</td> <td>Guardian Industries Corp.</td> </tr> <tr> <td>Street Address:</td> <td>2300 Harmon Road</td> </tr> <tr> <td>City:</td> <td>Auburn Hills</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48326-1714</td> </tr> </table>		Name:	Guardian Industries Corp.	Street Address:	2300 Harmon Road	City:	Auburn Hills	State/Country:	MICHIGAN	Postal Code:	48326-1714		
Name:	Guardian Industries Corp.												
Street Address:	2300 Harmon Road												
City:	Auburn Hills												
State/Country:	MICHIGAN												
Postal Code:	48326-1714												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13770262</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13770262								
Property Type	Number												
Application Number:	13770262												
CORRESPONDENCE DATA													
Fax Number:	7038164100												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	703-816-4000												
Email:	caj@nixonvan.com												
Correspondent Name:	Nixon & Vanderhye P.C.												

OP \$40.00 13770262

Address Line 1: 901 N. Glebe Road
Address Line 4: Arlington, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: JAR-3691-2902

NAME OF SUBMITTER: Joseph A. Rhoa

Signature: /Joseph A. Rhoa/

Date: 05/15/2013

Total Attachments: 10

source=3691-2902_Assignment#page1.tif
source=3691-2902_Assignment#page2.tif
source=3691-2902_Assignment#page3.tif
source=3691-2902_Assignment#page4.tif
source=3691-2902_Assignment#page5.tif
source=3691-2902_Assignment#page6.tif
source=3691-2902_Assignment#page7.tif
source=3691-2902_Assignment#page8.tif
source=3691-2902_Assignment#page9.tif
source=3691-2902_Assignment#page10.tif

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Afonso KRELING of 360 Cento e Cinquenta e Seis St., Volta Redonda, Rio de Janeiro, Brazil 27255-080; Fabiola RAMOS TORRES of Piloto Paulo Reis, 50, Resende, Rio de Janeiro, Brazil 27514-230 and Juan BAILLO ABREU of Rua Sebastiao Vitalino, 133, Jacarei, Sao Paulo, Brazil, 12311-230, (hereinafter ASSIGNORS), have made an invention entitled **MIRROR HAVING REFLECTIVE LAYER OF OR INCLUDING SILICON ALUMINUM** for which a so-entitled application for Letters Patent of the United States was filed on **February 19, 2013** under Serial No. **13/770,262**;

WHEREAS, Guardian do Brasil Vidros Planos Ltda. (hereinafter ASSIGNEE), having an office and place of business at Rua Fernando Bernadelli 2000, Porto Real, Rio de Janeiro, Brasil CEP 27570-000, 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, ASSIGNORS' 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(S) hereby authorize 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;

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:

✓ 19/04/2013
Date

✓ Afonso Kreling
Afonso KRELING

[Signature] Witnessed by:

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Afonso KRELING of 360 Cento e Cinquenta e Seis St., Volta Redonda, Rio de Janeiro, Brazil 27255-080; Fabiola RAMOS TORRES of Piloto Paulo Reis, 50, Resende, Rio de Janeiro, Brazil 27514-230 and Juan BAILLO ABREU of Rua Sebastiao Vitalino, 133, Jacarei, Sao Paulo, Brazil, 12311-230, (hereinafter ASSIGNORS), have made an invention entitled **MIRROR HAVING REFLECTIVE LAYER OF OR INCLUDING SILICON ALUMINUM** for which a so-entitled application for Letters Patent of the United States was filed on **February 19, 2013** under Serial No. **13/770,262**;

WHEREAS, Guardian do Brasil Vidros Planos Ltda. (hereinafter ASSIGNEE), having an office and place of business at Rua Fernando Bernadelli 2000, Porto Real, Rio de Janeiro, Brasil CEP 27570-000, 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, ASSIGNORS' 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(S) hereby authorize 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;

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:

23/04/2013

Date

Fabiola Ramos Torres

Fabiola RAMOS TORRES

Alfonso Bulcay

Witnessed by:

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Afonso KRELING of 360 Cento e Cinquenta e Seis St., Volta Redonda, Rio de Janeiro, Brazil 27255-080; Fabiola RAMOS TORRES of Piloto Paulo Reis, 50, Resende, Rio de Janeiro, Brazil 27514-230 and Juan BAILLO ABREU of Rua Sebastiao Vitalino, 133, Jacarei, Sao Paulo, Brazil, 12311-230, (hereinafter ASSIGNORS), have made an invention entitled **MIRROR HAVING REFLECTIVE LAYER OF OR INCLUDING SILICON ALUMINUM** for which a so-entitled application for Letters Patent of the United States was filed on **February 19, 2013** under Serial No. **13/770,262**;

WHEREAS, Guardian do Brasil Vidros Planos Ltda. (hereinafter ASSIGNEE), having an office and place of business at Rua Fernando Bernadelli 2000, Porto Real, Rio de Janeiro, Brasil CEP 27570-000, 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, ASSIGNORS' 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

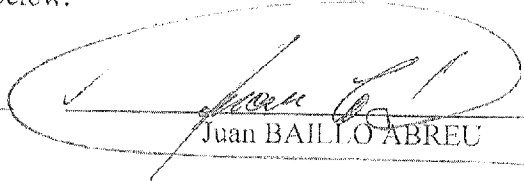
right of priority under the International convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the below listed ASSIGNOR(S) hereby authorize 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;

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:

19.06.2013
Date


Juan BAILLO ABREU

 Witnessed by:

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Willem DEN BOER of 9184 Lanning Lane, Brighton, Michigan 48116 and Alexey KRASNOV of 42116 Carriage Cove Circle, Canton, Michigan 48187, (hereinafter ASSIGNORS), have made an invention entitled **MIRROR HAVING REFLECTIVE LAYER OF OR INCLUDING SILICON ALUMINUM** for which a so-entitled application for Letters Patent of the United States was filed on **February 19, 2013** under Serial No. **13/770,262**;

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 ASSIGNORS by these presents, having sold, assigned and transferred, hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' 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(S) hereby authorize 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;

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:

✓ 4/19/13
Date

✓ Willem den Boer
Willem DEN BOER

[Signature] Witnessed by:

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Willem DEN BOER of 9184 Lanning Lane, Brighton, Michigan 48116 and Alexey KRASNOV of 42116 Carriage Cove Circle, Canton, Michigan 48187, (hereinafter ASSIGNORS), have made an invention entitled **MIRROR HAVING REFLECTIVE LAYER OF OR INCLUDING SILICON ALUMINUM** for which a so-entitled application for Letters Patent of the United States was filed on **February 19, 2013** under Serial No. **13/770,262**;

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 ASSIGNORS by these presents, having sold, assigned and transferred, hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' 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,

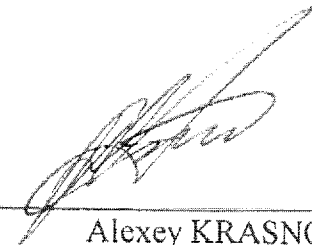
and any other international agreements to which the United States of America adheres, and the below listed ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. 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;


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:

✓ 04/18/13
Date

✓ 
Alexey KRASNOV

✓  Witnessed by:

Jiangping Wang