

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Matthias HOEBEL</td> <td>11/10/2010</td> </tr> <tr> <td>Alexander SCHNELL</td> <td>11/11/2010</td> </tr> <tr> <td>Yves PELLATON</td> <td>11/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Matthias HOEBEL	11/10/2010	Alexander SCHNELL	11/11/2010	Yves PELLATON	11/15/2010
Name	Execution Date								
Matthias HOEBEL	11/10/2010								
Alexander SCHNELL	11/11/2010								
Yves PELLATON	11/15/2010								
<b>RECEIVING PARTY DATA</b>									
Name:	ALSTOM TECHNOLOGY LTD								
Street Address:	Brown Boveri Strasse 7								
City:	Baden								
State/Country:	SWITZERLAND								
Postal Code:	CH-5400								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12917071</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12917071				
Property Type	Number								
Application Number:	12917071								
<b>CORRESPONDENCE DATA</b>									
Fax Number:	(215)568-6499								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	ATL3-PT078 (B09/040-0 US)								
NAME OF SUBMITTER:	Robert J. Ballarini								

Total Attachments: 4  
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**PATENT**  
**REEL: 025618 FRAME: 0909**

**CH \$40.00 12917071**

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## ASSIGNMENT

Matthias HOEBEL, residing at Spitzmattstrasse 17, CH-5210 Windisch, Switzerland, a citizen of Germany; Alexander SCHNELL, residing at Buchenweg 2, CH-5400 Baden, Switzerland, a citizen of Austria; and Yves PELLATON, residing at Heigellochstrasse 4, CH-5443 Niederrohrdorf, Switzerland, a citizen of Switzerland, (hereafter jointly and severally referred to as the undersigned), are the inventors of

### ABRASIVE SINGLE CRYSTAL TURBINE BLADE

for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 12/917,071, filed November 1, 2010.

ALSTOM Technology Ltd, a Swiss company, having a principal place of business at Brown Boveri Strasse 7, CH-5400 Baden, Switzerland (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

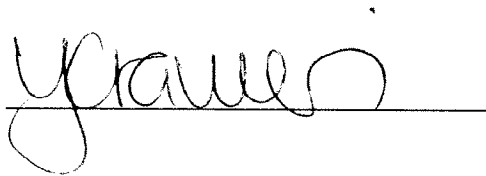
For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues and reexaminations thereof, throughout the world, including the right to claim priority under the Paris Convention or other treaty.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 10<sup>th</sup> day of November, 2010  
at Birr  
(Place)

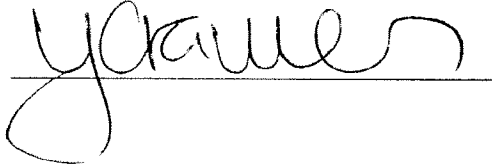
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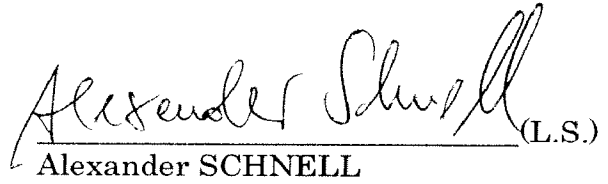
  
\_\_\_\_\_

  
\_\_\_\_\_ (L.S.)  
Matthias HOEBEL

EXECUTED under seal on this \_\_\_\_\_ day of 11<sup>th</sup> of November, 2010  
at \_\_\_\_\_  
(Place)

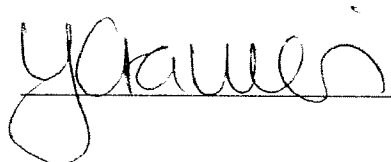
Witness:



 (L.S.)  
Alexander SCHNELL

EXECUTED under seal on this 15<sup>th</sup> day of November, 2010  
at Birr.  
(Place)

Witness:



 (L.S.)  
Yves PELLATON