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

<p>1. Name of conveying party(ies)</p> <p>Isaac Mazor Alex Dikopolitsev Boris Yokhin Tzachi Rafaeli Alexander Tokar</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: JORDAN VALLEY APPLIED RADIATION LTD.</p> <p>Street Address: P.O. Box 103</p> <p>City: Migdal Ha'emek</p> <p>Country: ISRAEL</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date: <u>8/4/2005; 7/27/2005; 7/27/2005; 8/2/2005; and 7/27/2005</u></p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <p>A. Patent Application No.(s) <span style="margin-left: 100px;">B. Patent No.(s)</span></p> <p style="margin-left: 40px;"><u>11/103,071</u> (filed April 11, 2005)</p> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be faxed to:</p> <p>Charles L. Gagnebin III Weingarten, Schurgin, Gagnebin &amp; Lehovici LLP Ten Post Office Square Boston, Massachusetts 02109 Tel: (617) 542-2290 Fax: (617) 451-0313</p>	<p>6. Total number of applications and patents Involved <u>[1]</u></p> <p>7. Total fee (37 CFR 3.41) ....\$ <u>40.00</u></p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account No. <u>23-0804</u></p>

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8. 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.

Attorney Name: Charles L. Gagnebin III  
Registration No. 25,467

Signature: 

Date: 8-30-05

Total number of pages including cover sheet, attachments, and document: [3]

Attorney Docket No. COLB-128XX

CH \$40.00 230804 11103071

COLB-128XX

UNITED STATES

## ASSIGNMENT

WHEREAS, the below named inventors, ASSIGNORS, have made a certain new and useful invention in:

**DETECTION OF DISHING AND TILTING USING X-RAY FLUORESCENCE**

for which a patent application was filed on April 11, 2005 under serial number 11/103,071

and WHEREAS, JORDAN VALLEY APPLIED RADIATION LTD., an Israel company having a place of business at P.O. Box 103, Migdal Ha'emek, Israel, ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all the divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the said United States application under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other International agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

ASSIGNORS authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to the issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNORS covenant and agree that they have full right to convey the entire interest herein assigned, and have not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNORS further covenant and agree that they will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

COLB-128XX

UNITED STATES  
ASSIGNMENT

Full Name of first inventor: Isaac Mazor

Inventor's signature *I Mazor* Date 4/Aug/2005

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Citizenship: Israel

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Full name of second joint inventor: Alex Dikopoltsev

Inventor's signature *Alex Dikopoltsev* Date 27.07.2005

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Full name of third joint inventor: Boris Yokhin

Inventor's signature *Boris Yokhin* Date 27/07/05

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Full name of fourth joint inventor: Tzachi Rafaeli

Inventor's signature *Tzachi Rafaeli* Date 2/8/05

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Full name of fifth joint inventor: Alex Tokar

Inventor's signature *Alex Tokar* Date 27.07.05

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