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Pasadena, CA 91109-7068

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

(1) Long Vu; Boris Yokhin, Isaac Mazor; and Amos Gvartzman

HEREBY SELL(S), ASSIGN(S) AND TRANSFER(S) TO

(2) JORDAN VALLEY APPLIED RADIATION LTD.

having a place of business at

(3) P.O. Box 103, Migdal Ha'emek, Israel

(hereinafter called "ASSIGNEE") the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

(4) X-RAY MICROANALYZER FOR THIN FILMS

which application was:

(a) executed by the undersigned on (5a): _____

(b) filed on (5b): September 29, 1999

and assigned Application No.: 09/408,894

including any and all United States Patents which may be granted on said application, and any and all extensions, divisions, reissues, substitutes, renewals or continuations of said application and patents, and the right to all benefits under all international conventions for the protection of industrial property and applications for said improvements.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its assigns or its successors in interest or its designee.

Upon said consideration, it is further agreed that, when requested, without charge to but at the expense of said ASSIGNEE, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers; and generally do everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining patent protection as provided herein.

| INVENTOR(S) | SIGNATURE | DATE |
|-----------------------|----------------------|---------------------------|
| <u>Long Vu</u> | X <u>[Signature]</u> | X <u>Nov 10, 1999</u> |
| <u>Boris Yokhin</u> | X <u>[Signature]</u> | X <u>Nov 8, 1999</u> |
| <u>Isaac Mazor</u> | X <u>[Signature]</u> | X <u>November 8, 1999</u> |
| <u>Amos Gvartzman</u> | X <u>[Signature]</u> | X <u>Nov 8, 99</u> |

WITNESSES:

X Eyal 8/11/99

X Ami Dorot

[Signature] 11/10/99

Denise Walker 11/10/99