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ASSIGNMENT OF PATENT APPLICATION

SOLE

WHEREAS, PETER BRUCE GILLINGHAM of 43 Slade Crescent, Kanata, Ontario, K2K 2K9, Canada, hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: READ/WRITE TIMING FOR MAXIMUM UTILIZATION OF BI-DIRECTIONAL READ/WRITE BUS

Filing date: September 19, 1997 Application No.: 08/933,673 ; and

WHEREAS, SLDRAM, INC., a California Nonprofit Mutual Benefit Corporation, with a principal executive office c/o Morrison & Foerster LLP, Attn: Paul L. Lion III, Esq., 755 Page Mill Road, Palo Alto, California, 94304-1018, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Date: April 22199 8

Petric

Peter Bruce Gillingham

WITNESSED BY:

Date: April 22, 1948

MICHAEL VLADESCU (Witness Name)

Witness Signature)

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