

UNIVERSITY OF MINNESOTA

*Patents and Technology Marketing
Division of Mechanical, Chemical,
Electrical and Biological Technologies*

*Suite 201
1100 Washington Avenue South
Minneapolis, MN 55415-1226
612-624-3545
Fax: 612-624-6554*

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Stephen R. Pomraning
Intellectual property manager
Lucent Technologies
600 Mountain Avenue
Room 2F-184
Murray Hill, NJ 07974-0636

Dear Mr. Pomraning,

Mr. Jaekyun Moon from the University from Minnesota has developed a coding scheme to improve storage capacity of magneto-optical storage devices such as hard disks and DVDs.

In brief, the invention consists of an algorithm for reducing error rates of sequence estimation detectors used in digital recording and storage devices. By eliminating certain error-prone binary data patterns, the algorithm reduces the overall error rate during the process of reading data from storage medium. These error-prone data patterns are commonly encountered in magneto-optical storage devices such as hard disks and DVDs and in digital subscriber line (DSL) modems. The demonstrated reductions in bit error rate (BER) during reading from a disk can enable an increase of 20-40% in its areal storage capacity.

We are looking for commercial partners to use this technology. We have a patent on this invention and the technology is available for license.

We have enclosed a copy of the patent (#5,5859,601). Please review it and let me have your comments.

Thank you



Kiran P. Saindane
Patents and Technology Marketing
Suite 201
1100 Washington Avenue South
Minneapolis, MN 55415-1226
Tel: 612-625-7569
E-mail: kiran@ortta.umn.edu

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