

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/06371 A1

(51) International Patent Classification: G06F 12/00, G11C 7/00

(74) Agents: NUTTLE, William, E. et al.; Flehr, Hohbach, Test, Albritton & Herbert LLP, 4 Embarcadero Center, Suite 3400, San Francisco, CA 94111-4187 (US).

(21) International Application Number: PCT/US99/16469

(81) Designated States (national): DE, GB, JP, KR, SG.

(22) International Filing Date: 20 July 1999 (20.07.1999)

(25) Filing Language:

English

Published:

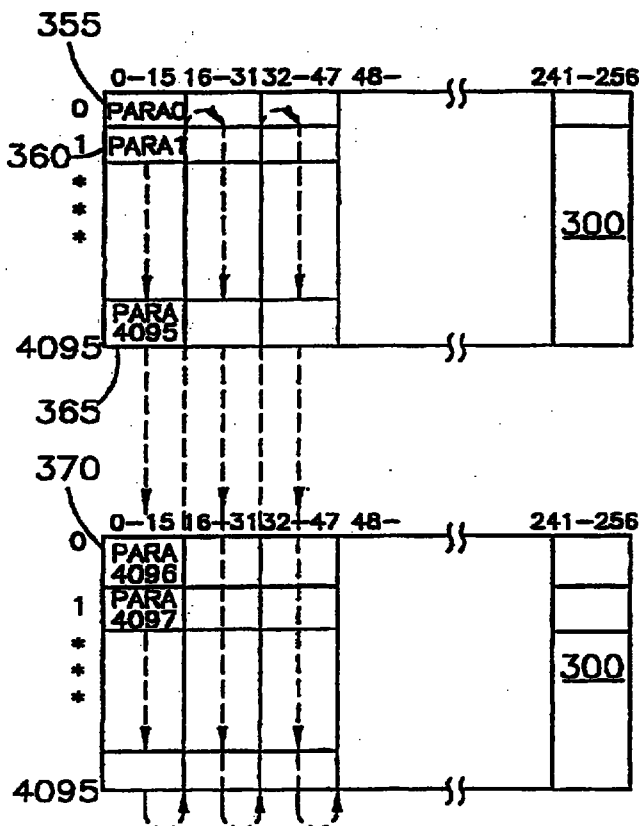
with international search report.
ended claims and statement.

(26) Publication Language:

(71) Applicant: SEAGATE TECHNOLOGY
920 Disc Drive, Scotts Valley, CA 95066 (US)

* codes and other abbreviations, refer to the "Guidelines for the Preparation of the International Search Report" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVED MEMORY SYSTEM APPARATUS AND METHOD



(57) Abstract: A memory system and a manner of operating the memory system are provided. The memory system includes several arrays (Refs. 305 & 310) arranged in groups of columns having a column address, and rows having a row address. Operating the system involves storing blocks of data in the arrays in a way that provides contiguous logical addresses for the blocks of data. A block of data is stored in a row of a group of columns in an array. The row address is incremented and the process repeated until a row limit is reached (Ref. 365). Next, the process is repeated with another array until blocks of data have been stored in all rows of a corresponding group of columns in the array. The column address is incremented and the row address reset, and the process repeated until a column limit is reached.

WO 01/06371 A1