

Title (en)
SOFT PROGRAMMING NON-VOLATILE MEMORY UTILIZING INDIVIDUAL VERIFICATION AND ADDITIONAL SOFT PROGRAMMING OF SUBSETS OF MEMORY CELLS

Title (de)
SOFTPROGRAMMIERUNG NICHTFLÜCHTIGER SPEICHER UNTER VERWENDUNG INDIVIDUELLER ÜBERPRÜFUNG UND ZUSÄTZLICHER SOFTPROGRAMMIERUNG VON UNTERGRUPPEN VON SPEICHERZELLEN

Title (fr)
MEMOIRE NON VOLATILE A PROGRAMMATION SOUPLE METTANT EN OEUVRE UNE VERIFICATION INDIVIDUELLE ET UNE PROGRAMMATION SOUPLE SUPPLEMENTAIRE DE SOUS-ENSEMBLES DE CELLULES DE MEMOIRE

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EP 1864294 A1 20071212 (EN)

Application
EP 06739867 A 20060329

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Abstract (en)
[origin: WO2006105133A1] A set of non-volatile storage elements is divided into subsets for soft programming in order to more fully soft-program slower soft programming elements. The entire set of elements is soft-programmed until verified as soft programmed (or until a first subset of elements is verified as soft programmed while excluding a second subset from verification). After the set is verified as soft programmed, a first subset of elements is inhibited from further soft programming while additional soft programming is carried out on a second subset of elements. The second subset can include slower soft programming elements. The second subset can then undergo soft programming verification while excluding the first subset from verification. Soft programming and verifying for the second subset can continue until it is verified as soft programmed. Different step sizes can be used for increasing the size of the soft programming signal, depending on which subset is being soft programmed and verified.

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