Title (en)

CONFIGURABLE DEDICATED LOGIC CELLS IN PROGRAMMABLE LOGIC AND ROUTING BLOCKS WITH DEDICATED LINES AND LOCAL CONNECTIONS

Title (de)

KONFIGURIERBARE FEST ZUGEORDNETE LOGIKZELLEN IN PROGRAMMIERBARER LOGIK UND ROUTING-BLÖCKEN MIT FEST ZUGEORDNETEN LEITUNGEN UND LOKALEN VERBINDUNGEN

Title (fr)

CELLULES LOGIQUES DEDIEES CONFIGURABLES DANS DES BLOCS LOGIQUES ET D'ACHEMINEMENT PROGRAMMABLES A LIGNES DEDIEES ET CONNEXIONS LOCALES

Publication

EP 2052459 A2 20090429 (EN)

Application

EP 06717800 A 20060110

Priority

- US 2006000640 W 20060110
- US 3610905 A 20050114
- US 4438605 A 20050127
- US 6633605 A 20050223
- US 6501905 A 20050223

Abstract (en)

[origin: WO2006076276A2] A programmable logic structure is disclosed that has a set of dedicated lines which extends internally throughout different dedicated logic cells within a logic and routing block (LRB), extends from a previous logic routing block to the present logic and routing block, or extends from the present logic and routing block to the next logic and routing block. In addition, a programmable logic structure employs input logic routing cell (ELRC) multiplexers and output logic routing cell (OLRC) multiplexers for making local connections between dedicated logic cells. Furthermore, a dedicated logic cell in a programmable logic structure is constructed with the following primary components: a configurable logic function or look-up table (LL), a dedicated logic function (DL), a sequential logic function (LS), and a control logic function (LC).

IPC 8 full level

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