

Title (en)
TRIE MEMORY DEVICE WITH A CIRCULAR PIPELINE MECHANISM

Title (de)
TRIE-SPEICHERANORDNUNG MIT ZIRKULAREM PIPELINE-MECHANISMUS

Title (fr)
DISPOSITIF DE MEMOIRE TRIE A MECANISME DE PIPELINE CIRCULAIRE

Publication
EP 1702275 A1 20060920 (FR)

Application
EP 03758229 A 20030811

Priority
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Abstract (en)
[origin: WO2005024659A1] The memory stores binary patterns associated with respective references. Data chains are analysed by successive sections of K bits ($K \geq 1$) in order to extract one of the references when there is a match between an analysed data chain and a stored binary pattern associated with said reference. The memory is organised into a plurality of successive memory stages, the analysis of the $(i+1)$ -th section of a data chain providing access to a cell of the stage $i=0$. For $N \geq 2$, $p \geq 1$ and $N.p$, lower than the maximum number of stages, the memory is distributed into N separate memory zones of levels 0 to N-1, each cell of a stage $i=0$ belonging to the zone of level $[i/p]$, modulo N, where $[i/p]$ designates the quotient of the Euclidian division of i by p. The analyses are carried out by means of a maximum of N parallel modules.

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