

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  
FR 0302508 W 20030811

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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