

Title (en)

METHOD FOR ADDRESS TABLE LOOKUP

Title (de)

VERFAHREN ZUM ADRESSENTABELLENNACHSCHLAGEN

Title (fr)

PROCEDE DE CONSULTATION D'UNE TABLE D'ADRESSES

Publication

**EP 1595366 A1 20051116 (EN)**

Application

**EP 04712100 A 20040218**

Priority

- GB 2004000657 W 20040218
- GB 0304044 A 20030222

Abstract (en)

[origin: GB2398700A] When a data packet is received 14,15 at a router, the address portion of the packet is sampled 16,17,18 and sent to a programmable logic device 29 which looks it up in the look-up table of memory device 30 and determines an onward transmission path. Determination of the transmission path is performed whilst the remainder of the packet loads into memory 22. The address may be an IP address and the look-up means may compare the address in parts, with each respective part of the local address, in such a way that once a difference is noted, the difference value is used to generate a number, different values of which relate to different routing information depending upon which part of the target address differs from the local address. Two flags may be used in memory 22 to indicate loading, loaded, unloaded and empty states and more than one memory may be used for storing the packets (RAM A-D, fig.3).

IPC 1-7

**H04L 12/56**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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