

Title (en)
PROGRAMMABLE PACKET PARSING PROCESSOR

Title (de)
PROGRAMMIERBARER PAKETANALYSEPROZESSOR

Title (fr)
PROCESSEUR D'ANALYSE DE PAQUETS PROGRAMMABLE

Publication
EP 1757039 A2 20070228 (EN)

Application
EP 05745706 A 20050419

Priority

- US 2005013191 W 20050419
- US 83279604 A 20040426
- US 92760204 A 20040825
- US 92729004 A 20040825
- US 92717504 A 20040825

Abstract (en)
[origin: WO2005109788A2] The present invention provides a packet processing device and method. A parsing processor provides instruction-driven content inspection of network packets at 10-Gbps and above with a parsing engine that executes parsing instructions. A flow state unit maintains statefulness of packet flows to allow content inspection across several related network packets. A state-graph unit traces state-graph nodes to keyword indications and/or parsing instructions. The parsing instructions can be derived from a high-level application to emulate user-friendly parsing logic. The parsing processor sends parsed packets to a network processor unit for further processing.

IPC 8 full level
H04L 12/26 (2006.01); **H04L 12/28** (2006.01); **H04L 29/06** (2006.01); **H04L 12/56** (2006.01)

CPC (source: EP)
H04L 43/18 (2013.01); **H04L 49/608** (2013.01); **H04L 63/0254** (2013.01); **H04L 63/1416** (2013.01); **H04L 65/765** (2022.05); **H04L 69/22** (2013.01); **H04L 49/3072** (2013.01); **H04L 2012/5652** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
WO 2005109788 A2 20051117; **WO 2005109788 A3 20070222**; EP 1757039 A2 20070228; EP 1757039 A4 20130102

DOCDB simple family (application)
US 2005013191 W 20050419; EP 05745706 A 20050419