

Title (en)
METHOD OF RUNNING AN ALGORITHM AND A SCALABLE PROGRAMMABLE PROCESSING DEVICE

Title (de)
VERFAHREN ZUR AUSFÜHRUNG EINES ALGORITHMUS UND SKALIERBARE PROGRAMMIERBARE VERARBEITUNGSEINRICHTUNG

Title (fr)
PROCEDE D'EXECUTION D'ALGORITHME ET DISPOSITIF DE TRAITEMENT PROGRAMMABLE A LA CARTE

Publication
EP 1316218 A2 20030604 (EN)

Application
EP 01967293 A 20010822

Priority

- EP 0109691 W 20010822
- US 64977700 A 20000829
- US 75903601 A 20010111
- US 87293101 A 20010601

Abstract (en)
[origin: WO0219095A2] Nowadays, programmable components (1304), rather than dedicated single-function components can perform continuous media processing in consumer devices, like digital television sets (1310), set-top boxes, PCs, or VCRs. The media processing algorithms that are written for those programmable components (1304), must be designed to provide a plurality of output quality levels in exchange for required processing resources. Since resources are finite, the media processing algorithms must be controlled in their resource usage and the output quality level they provide. Users of consumer devices do not like to see major changes in the quality of, for example, a video they are watching. Therefore, typical algorithm characteristics like the functions an algorithm comprises, the resource usage per function and the quality level per function are used to provide smoother quality transitions.

IPC 1-7
H04N 7/24; H04N 5/00; H04N 7/50

IPC 8 full level
G06F 9/50 (2006.01); **H03M 7/30** (2006.01); **H03M 7/40** (2006.01); **H04N 7/24** (2011.01); **H04N 7/26** (2006.01); **H04N 7/50** (2006.01)

CPC (source: EP KR)
G06F 9/50 (2013.01 - EP); **H04N 19/156** (2014.11 - EP KR); **H04N 19/42** (2014.11 - EP KR); **H04N 19/45** (2014.11 - KR); **H04N 19/61** (2014.11 - EP KR); **H04N 19/90** (2014.11 - EP); **H04N 21/4113** (2013.01 - EP); **H04N 21/4402** (2013.01 - EP); **H04N 21/440218** (2013.01 - KR); **H04N 21/4424** (2013.01 - EP KR); **H04N 21/4621** (2013.01 - EP); **H04N 21/6112** (2013.01 - EP); **G06F 2209/504** (2013.01 - EP); **Y02D 10/00** (2017.12 - EP)

Citation (search report)
See references of WO 0219095A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0219095 A2 20020307; **WO 0219095 A3 20020613**; CN 1265645 C 20060719; CN 1394443 A 20030129; EP 1316218 A2 20030604; JP 2004507957 A 20040311; KR 20020064893 A 20020810

DOCDB simple family (application)
EP 0109691 W 20010822; CN 01803281 A 20010822; EP 01967293 A 20010822; JP 2002523147 A 20010822; KR 20027005513 A 20020429