

Title (en)
DIGITAL VIDEO FILTER AND IMAGE PROCESSING

Title (de)
DIGITAL-VIDEOFILTER UND BILDVERARBEITUNG

Title (fr)
FILTRE VIDÉO NUMÉRIQUE ET TRAITEMENT D'IMAGE

Publication
EP 2321819 A1 20110518 (EN)

Application
EP 08815721 A 20080908

Priority
US 2008010484 W 20080908

Abstract (en)
[origin: WO2010027348A1] An apparatus for video digital color pixel filtering and digital image processing that eliminates the need for Furrier Transforms, thus eliminating time-consuming multiplication and additions. It utilizes a new distributed computer architecture that operates in conjunction with First In First Out memories, utilizing simple software for each processor to minimize latency issues of real time interactive digital image processing. The distributed processing architecture is set up to operate in a manner similar to factory assembly lines, wherein FIFO's carry semi processed data from one processor to another. A unique memory based system is used to measure motion vectors including distances and rotational vectors, of moving objects moving in a six degree of freedom.

IPC 8 full level
G06T 7/00 (2006.01); **G06T 7/40** (2006.01)

CPC (source: EP GB KR)
G06T 1/00 (2013.01 - KR); **G06T 1/20** (2013.01 - GB); **G06T 5/00** (2013.01 - GB KR); **G06T 7/00** (2013.01 - KR); **G06T 7/11** (2017.01 - EP); **G06T 7/90** (2017.01 - EP); **H04N 19/186** (2014.11 - EP); **H04N 19/433** (2014.11 - EP); **H04N 19/436** (2014.11 - EP); **H04N 19/80** (2014.11 - EP); **H04N 19/85** (2014.11 - EP); **G06T 2200/28** (2013.01 - EP); **G06T 2207/10016** (2013.01 - EP); **G06T 2207/10024** (2013.01 - EP); **H04N 9/646** (2013.01 - GB)

Cited by
US8872969B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2010027348 A1 20100311; CA 2725377 A1 20100311; CN 102077268 A 20110525; EP 2321819 A1 20110518; EP 2321819 A4 20140312; GB 201021723 D0 20110202; GB 2475432 A 20110518; GB 2475432 B 20130123; IL 211130 A0 20110428; JP 2012502275 A 20120126; KR 20110053417 A 20110523

DOCDB simple family (application)
US 2008010484 W 20080908; CA 2725377 A 20080908; CN 200880130025 A 20080908; EP 08815721 A 20080908; GB 201021723 A 20080908; IL 21113011 A 20110209; JP 2011526019 A 20080908; KR 20117001102 A 20080908