Title (en)
MOTION ESTIMATION

Title (de)
BEWEGUNGSSCHÄTZUNG

Title (fr)
ESTIMATION DE MOUVEMENT

Publication
EP 1086591 A1 20010328 (EN)

Application
EP 00920556 A 20000321

Priority
- EP 0002583 W 20000321
- US 28716199 A 19990406
- US 28716599 A 19990406

Abstract (en)
[origin: WO0064182A1] A method for determining a best match between a first pixel array in a picture currently being encoded and a plurality of second pixel arrays in a search region of a reference picture, wherein each of the first and second pixel arrays includes a plurality of rows and columns of individual pixel values. The method is designed to be performed in a motion estimation search engine of a digital video encoder, and includes the steps of producing a first orthogonal-sum signature of the first pixel array (M1) comprised of a set of horizontal sums (S1H-S16H) representative of the sums of the individual pixel values of the rows of the first pixel array and a first set of vertical sums (S1V-S16V) representative of the sums of the individual pixel values of the columns of the first pixel array; producing a plurality of second orthogonal-sum signatures for respective ones of at least selected ones of the plurality of second pixel arrays, each of the plurality of second orthogonal-sum signatures being comprised of a set of horizontal sums (S1H-S16H) representative of the sums of the individual pixel values of the rows of a respective one of the second pixel arrays and a set of vertical sums (S1V-S16V) representative of the sums of the individual pixel values of the columns of a respective one of the second pixel arrays.

IPC 1-7
H04N 7/26

IPC 8 full level
H04N 7/26 (2006.01); **H04N 7/32** (2006.01); **H04N 7/46** (2006.01)

CPC (source: EP KR)
H04N 19/43 (2014.11 - EP); **H04N 19/51** (2014.11 - EP KR); **H04N 19/59** (2014.11 - EP)

Citation (search report)
See references of WO 0064182A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 0064182 A1 20001026; CN 1201589 C 20050511; CN 1314052 A 20010919; EP 1086591 A1 20010328; JP 2002542737 A 20021210; KR 20010052624 A 20010625

DOCDB simple family (application)
EP 0002583 W 20000321; CN 00801040 A 20000321; EP 00920556 A 20000321; JP 2000613195 A 20000321; KR 20007013845 A 20001206