

Title (en)
PARAMETRIC IMAGE STITCHING

Title (de)
PARAMETRISCHES BILDHEFTEN

Title (fr)
TRAITEMENT D'IMAGE PARAMETRIQUE POINT PAR POINT

Publication
EP 1078505 A1 20010228 (EN)

Application
EP 99934385 A 19990222

Priority
• US 9903845 W 19990222
• US 7556298 P 19980223

Abstract (en)
[origin: WO9943148A1] During electronic film development, convential film is scanned electronically to produce a series of views of the develing image. An early scan reveals the fast developing highlight detail, while a late scan reveals slow developing shadow detail. After development, the series of views is combined into a single image in a process called stitching. In the present invention, regression data is accumulated during development to describe a curve of density versus time of development for each pixel. After development, this regression data is used to recreate a regression curve of dentisity versus development time for each pixel. The time at which this curve crosses a density known to give optimum grain characteristics, called the optimum density curve, is used to create the brightness for that pixel in the finished stitched image. The invention further teaches weighting regression data as a function of time and density generally following proximity to optitum density curve.

IPC 1-7
H04N 1/00; **H04N 1/40**

IPC 8 full level
H04N 1/00 (2006.01); **H04N 1/40** (2006.01); **H04N 1/12** (2006.01)

CPC (source: EP)
H04N 1/00795 (2013.01); **H04N 1/40** (2013.01); **H04N 1/12** (2013.01); **H04N 2201/0408** (2013.01)

Citation (search report)
See references of WO 9943148A1

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

DOCDB simple family (publication)
WO 9943148 A1 19990826; AU 3306999 A 19990906; EP 1078505 A1 20010228; TW 384416 B 20000311

DOCDB simple family (application)
US 9903845 W 19990222; AU 3306999 A 19990222; EP 99934385 A 19990222; TW 88102561 A 19990222