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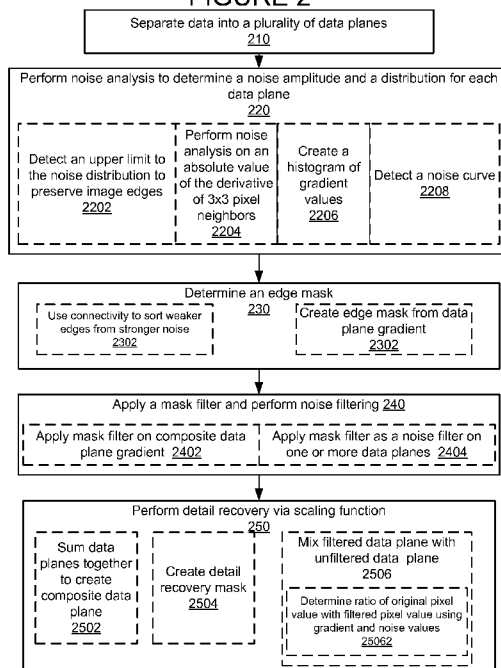
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(54) Title: NOISE FILTER

FIGURE 2



(57) Abstract: Provided is a system and method for processing data and images including, but not limited to separating data into a plurality of data planes; performing noise analysis to determine an average noise amplitude and noise distribution for each data plane via a gradient calculation; applying an edge mask to weaken isolated transients in one or more of the data planes; applying a noise filter using one or more levels of filtering to one or more of the data planes; and performing detail recovery combining a composite data plane and filtered and unfiltered data planes according to the noise analysis.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/038610**A. CLASSIFICATION OF SUBJECT MATTER****H04N 5/217(2006.01)i, H04N 5/21(2006.01)i, H04N 9/07(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 H04N, H05G, G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: data, plane, noise, and filter

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05809105 A (Steven P. Roehm, et. al.) 15 SEP 1998 Abstract Fig. 3; the related paragraphs in the detailed description Claim 1	1-32
A	US 2003-0048368 A1 (Angelo Bosco, et. al.) 13 MAR 2003 Abstract Figs. 4-5; the related paragraphs in the detailed description Claims 1-4	1-32
A	US 2003-095715 A1 (Gopal B. Avinash) 22 MAY 2003 Abstract Figs. 5-7; the related paragraphs in the detailed description Claim 1	1-32
A	US 2003-081855 A1 (Enrico Dolazza) 01 MAY 2003 Abstract Fig. 1; the related paragraphs in the detailed description Claim 1	1-32



Further documents are listed in the continuation of Box C.



See patent family annex.

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Information on patent family members

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