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(54) Title: METHOD FOR INDEPENDENTLY CONTROLLING HUE OR SATURATION OF INDIVIDUAL COLORS IN A REAL TIME DIGITAL VIDEO IMAGE

(57) Abstract: A method for independently controlling hue or saturation of individual colors in a real time digital video image, without affecting the hue or saturation of any other color in the same real time digital video image. Includes selecting a uniquely defined independent color hue control delta value or independent color saturation control delta value, where the delta value represents an extent or magnitude of change in hue or saturation, respectively, of the selected individual color, and, separately evaluating uniquely defined independent color hue control functions or independent color saturation control functions, using input image pixel values of the plurality of input image pixels identified as having the individual color in the real time digital video input image whose hue or saturation was selected to be independently changed, and using the corresponding selected independent color hue control delta value or the corresponding selected independent color saturation control delta value, respectively, for forming and displaying a corresponding pluralit of output image pixels having the individual color whose hue or saturation was selected to be independently changed.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N 9/68, 1/60

US CL : 348/576, 577, 582, 649, 645; 345/690, 600, 589, 597; 358/ 520, 521; 382/162, 167

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)

U.S. : 348/576, 577, 582, 649, 645; 345/690, 600, 589, 597; 358/ 520, 521; 382/162, 167

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 6,337,692 B1 (Rai et al) 8 January 2002, ALL.	1-32
A	US 6,268,867 B1 (Sato et al) 31 July 2001, ALL.	1-32
A	US 5,282,021 A (Bachmann et al) 25 January 1994, ALL.	1-32

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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