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(54) Title: COLOR MAPPING TECHNIQUES FOR COLOR IMAGING DEVICES

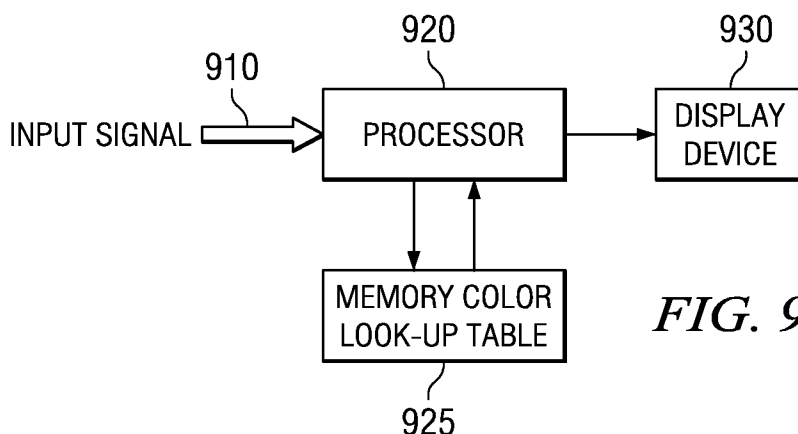


FIG. 9

(57) Abstract: Disclosed embodiments relate to techniques for color gamut mapping when an input signal (910) transmitting color visual images has a different color gamut than does the output display device (930). Polynomial rubber-sheet mapping may be used to translate the input color gamut to the output color gamut on a hue-by-hue basis within a three-dimensional perceptual color space. Also, a memory color look-up table (925) may be used to preserve memory colors in the input gamut which are capable of reproduction within the output gamut. By using such techniques alone or in combination, it may be possible to more effectively map an input color gamut to a different output color gamut with improved colorimetric accuracy.



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USPC: 345/589,590,591,601;382/166,167

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B. FIELDS SEARCHED

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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)
USPAT, USPGPUB, USOCR, EPO, JPO, Derwent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,128,022 (DILLINGER) 03 October 2000 (03.10.2000), column 18, lines 44-64, columns 21-22, lines 60-60, columns 31-33, lines 10-20, Figures 4-7 and 11.	1-4, 6-8, 10, 11, 16, 17, 19
Y	US 5,574,666 (RUETZ et al) 12 November 1996 (12.11.1996), column 2, lines 42-51, columns 6-8, lines 48-18, Figures 5 and 12.	1-4, 6-8, 10, 11, 16, 17, 19

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See patent family annex.

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