

Title (en)

Image Processing Method for Adding Supplementary Information to an Image

Title (de)

Bildverarbeitungsverfahren zum Addieren von Zusatzinformationen an Bildern

Title (fr)

Procédé et appareil de traitement d'images pour ajouter des informations supplémentaires à un image

Publication

EP 0551016 B8 20011114 (EN)

Application

EP 92311886 A 19921231

Priority

- JP 10492 A 19920106
- JP 4389792 A 19920228

Abstract (en)

[origin: EP0551016A1] An image processing apparatus adding information to read image signals and arranging a mark indicative of a position where the information is added so that the additional information can be easily extracted. An image processor processes full-color image signals from a line sensor and a binarization circuit binarizes the signals using a pseudo half-tone processing. A density judgment circuit judges the density of the image signals and controls a modulator which adds additional information. The modulator refers to the contents of a ROM and changes dot positions in the binarized image signals based on the referred information and adds the additional information to the image signals. A FIFO compensates image signals delayed by the density judgment circuit. <IMAGE>

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H04N 1/387; **H04N 1/00**

IPC 8 full level

H04N 1/00 (2006.01); **H04N 1/32** (2006.01)

CPC (source: EP US)

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Cited by

US7003132B2; EP1137251A3; EP1089542A3; EP1107571A3; EP0688127A1; US5568268A; US6072871A; EP1041814A3; EP0705022A3; US5661574A; US5832186A; EP0688128A1; EP0660588A3; US5719957A; US7286684B2; US6580808B2; US6967727B1; US7196804B2; US6345104B1; US7113615B2; WO9636163A3; WO9604746A1; WO9627259A1; WO9740619A1; WO9520291A1; US6285776B1; US6771796B2; US6427020B1; US6354630B1; US6750983B1; US6325420B1

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