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(21) International Application Number: PCT/IB99/00155 (22) International Filing Date: 28 January 1999 (28.01.99) (30) Priority Data: 09/024,632 17 February 1998 (17.02.98) US (71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE). (72) Inventors: HENTSCHEL, Christian; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VRIENS, Leendert; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). (74) Agent: STERKEN, Antoon, J., E.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).		(81) Designated States: JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 11 November 1999 (11.11.99)
(54) Title: VIDEO MOIRE REDUCTION <pre> graph LR VI[VI] --> GA[GA] GA -- VIF --> NF[NF] NF -- VOF --> IG[IG] IG -- VO --> DS[DS] DS --> CRT[CRT] CRT --> GA RMD[RMD] -- NP --> NF </pre>		
(57) Abstract A display monitor operating under the raster scanning system repeats the line scanning of an electron beam by moving the resulting scanning lines in a direction substantially perpendicular to the line direction. In a cathode ray tube (CRT), the dot pitch of the fluorescent material on the display screen (DS) of the cathode ray tube (CRT) that can emit light is determined by the aperture pitch of the shadow mask. Thus, when displaying a video pattern (f1h) in which consecutive pixels in a line are repeated in an ON and OFF sequence, interference with the aperture pitch of the shadow mask may occur, thereby causing a moire. The moire phenomenon is reduced with a notch filter (NF) which has a passband for baseband video frequencies (f1h) and which has a notch in the amplitude characteristic as a spatial frequency a) at or near to a spatial frequency of dots (fdh or fhh) on the display screen (DS), or b) at or near to a predetermined spatial higher harmonic (f2h, f4h) of the baseband video (f1h) which is near to said spatial frequency of the dots (fdh or fhh).		

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 99/00155

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04N 3/233, H04N 5/21

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)

IPC6: H04N

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

SE,DK,FI,NO classes as above

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

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 9709820 A2 (PHILIPS ELECTRONICS N.V.), 13 March 1997 (13.03.97), page 2, line 5 - line 20, figure 1, abstract --	1-8
Y	JP 59071024 A (OLYMPUS KOGAKU KOGYO KK), 21 April 1984 (21.04.84), abstract --	1-8
A	US 5107188 A (ABRAHAM E. RINDAL), 21 April 1992 (21.04.92), see whole document --	1-8
A	US 5231489 A (BRUCE J. PENNEY), 27 July 1993 (27.07.93), see whole document --	1-8

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 0707300 A2 (INTERNATIONAL BUSINESS MACHINES CORPORATION), 17 April 1996 (17.04.96), see whole document -- -----	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

02/08/99

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