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11.07.90 Bulletin 90/28(71) Applicant: International Business Machines Corporation
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(54) Glitch energy reduction in digital gray scale CRT display.

(57) A circuit addition is described for a digital, gray scale CRT display circuit to substantially reduce glitch distortion during CRT beam intensity changes. A high pass filter and DC restoration circuit couples the control grid of the CRT to the video amplifier such that the cathode and control grid substantially track each other during a glitch. This results in no substantial change in beam intensity as would otherwise be perceived during a glitch. This is accomplished without signal conditioning prior to the output of the video amplifier circuit by means of either delaying the higher order bits of the binary value corresponding to the desired intensity level or sampling and holding the analog output of the D/A converter prior to application of that signal to the video amplifier.

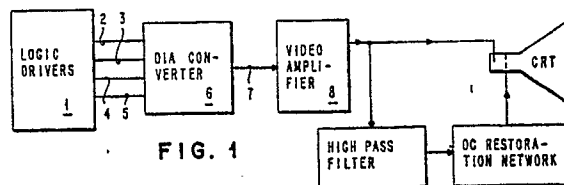


FIG. 1

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-4 017 681 (SMEULERS et al.) * Claim 1; column 1, lines 21-46 * ---	1,8	G 09 G 1/00
A	FR-A-2 550 899 (BBC SOCIETE ANONYME BROWN, BOVERI ET CIE) * Page 2, lines 10-15; page 3, line 24 - page 4, line 19 * ---	1,8	
A	US-A-3 965 389 (ENGLISH et al.) * Claim 1 * -----	1,8	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 09 G H 05 K H 04 N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-04-1990	Examiner TIBAUX M.J.P.G.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			