Title (en)
DEVICE FOR OBTAINING CONTINUOUS TRACES ON A DISPLAY SCREEN CONTROLLED BY A GRAPHICAL PROCESSOR

Publication
EP 0161176 B1 19880817 (FR)

Application
EP 85400735 A 19850412

Priority
FR 8406053 A 19840417

Abstract (en)
[origin: US4710764A] Device for obtaining continuous plots on the screen of a display console controlled by a graphic processor, comprising a graphic memory for storing in binary form the matrix of points or pixels representing the image displayed on the screen and an attribute memory containing the attributes of each of the points of the image. An interpolation circuit contains a table for calculating the attributes of the intermediate points between consecutive points of the dot matrix. The table of the interpolation circuit is addressed by the preexisting value PA of the pixel to be modified found in the attribute memory, by the value PN of the attribute of the pixels on the plot on either side of the point to be modified and by an interpolation value F equal to the fractional part of the position of the point to be modified between consecutive points on the plot, each position in the table containing an attribute value PM confirming the relationship PM=F.PA+(1-F).PN, the value PM obtained is transferred into the attribute memory for updating the contents of the position corresponding to the address of the modified point.

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G09G 1/16

IPC 8 full level
G09G 5/20 (2006.01); **G09G 5/30** (2006.01); **G09G 5/393** (2006.01)

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