

Title (en)  
VECTOR GRAPHICS GENERATOR SET-UP

Publication  
**EP 0229694 A3 19901122 (EN)**

Application  
**EP 87300126 A 19870108**

Priority  
US 82076386 A 19860117

Abstract (en)  
[origin: EP0229694A2] Setting up a graphics vector generator computing values representative of difference functions between delta Y values and delta X values for a vector to be drawn; storing such functions; storing a sign of the difference functions for controlling X, Y, swap and multiplex operations; swapping X values and Y values in response to the stored sign to present a larger of an X function or a Y function to a control means for controlling a number of iterations in generation of a vector; and using an iteration counter to control the number of iterations performed in generation of a vector.  
[origin: EP0229694A2] The vector generator includes apparatus for setting up the generator and computes values representative of difference functions between Delta Y values and Delta X values for a vector to be drawn. The computer values are stored and a sign for each of the difference functions is stored for controlling XY swap and multiplex operations. A swap unit swaps X values and Y values in response to the store sign to present a larger of an X function or a Y function to a controller for controlling a number of iterations in generation of a vector. An iteration counter controls a number of iterations in generation of a vector.

IPC 1-7  
**G09G 1/16**

IPC 8 full level  
**G06T 11/20** (2006.01); **G09G 5/20** (2006.01)

CPC (source: EP)  
**G09G 5/20** (2013.01)

Citation (search report)  
• [A] US 4272808 A 19810609 - HARTWIG WILLIAM F  
• [A] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 20, no. 9, February 1978, pages 3703-3706, New York, US; R.J. LLEWELYN et al.: "Generation of points using Bresenham's algorithm"

Designated contracting state (EPC)  
DE FR GB IT

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**EP 0229694 A2 19870722; EP 0229694 A3 19901122; EP 0229694 B1 19930707**; CA 1263775 A 19891205; DE 3786408 D1 19930812; DE 3786408 T2 19940120; JP S62165280 A 19870721

DOCDB simple family (application)  
**EP 87300126 A 19870108**; CA 523772 A 19861125; DE 3786408 T 19870108; JP 27310786 A 19861118