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(12) United States Patent

Leather et al.

(54) DIVIDING WORK AMONG MULTIPLE GRAPHICS PIPELINES USING A SUPER-TILING TECHNIQUE

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G09G 5/36	(2006.01

- (58) Field of Classification Search

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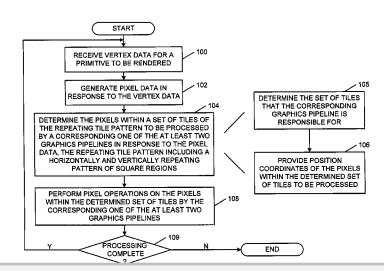
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(57) ABSTRACT

A graphics processing circuit includes at least two pipelines operative to process data in a corresponding set of tiles of a repeating tile pattern, a respective one of the at least two pipelines operative to process data in a dedicated tile, wherein the repeating tile pattern includes a horizontally and vertically repeating pattern of square regions. A graphics processing method includes receiving vertex data for a primitive to be rendered; generating pixel data in response to the vertex data; determining the pixels within a set of tiles of a repeating tile pattern to be processed by a corresponding one of at least two graphics pipelines in response to the pixel data, the repeating tile pattern including a horizontally and vertically repeating pattern of square regions; and performing pixel operations on the pixels within the determined set of tiles by the corresponding one of the at least two graphics pipelines.

21 Claims, 5 Drawing Sheets



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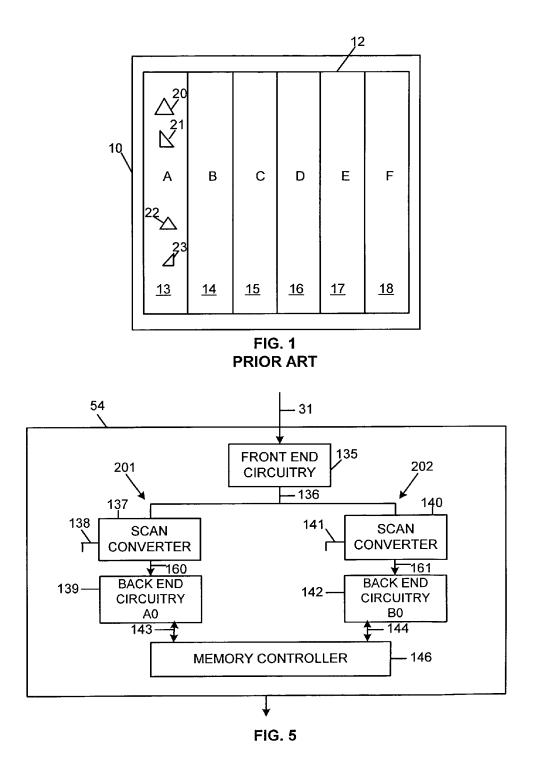
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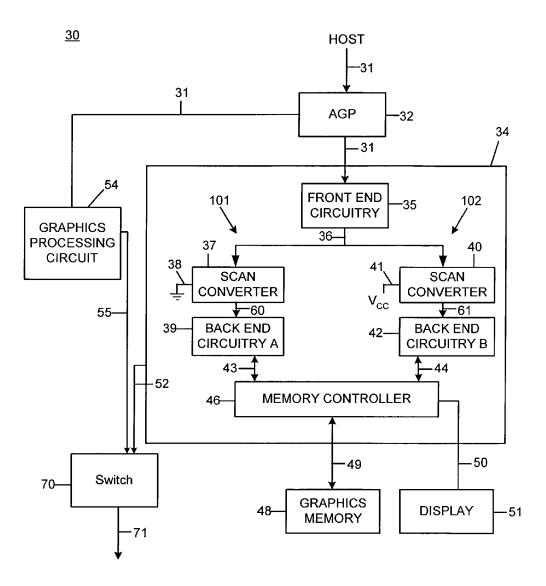


FIG. 2

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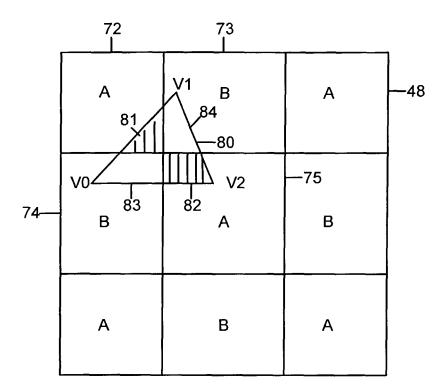


FIG. 3

	92	93	96 	97]	_
	A0	B0	A1	B1	
94—	В0	A0	—95 B1 98	A1 99	68
	A1	B1	A0	B0	
	B1	A1	В0	A0	

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