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(12) **United States Patent**
Furtner

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(54) **METHOD FOR RASTERIZING A GRAPHICS BASIC COMPONENT**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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§ 371 (c)(1),
(2), (4) Date: **Feb. 19, 2002**

(57) **ABSTRACT**

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PCT Pub. Date: **Oct. 26, 2000**

A method for rasterizing a graphic primitive (120) in a graphics system generates, starting from graphic primitive description data, pixel data for the graphic primitive, the graphics system comprising a memory which is divided up into a plurality of blocks (a, a+1, b, b+1) which are each associated with a predetermined one of a plurality of areas on a mapping screen (114). Each block of the plurality of blocks (a, a+1, b, b+1) is associated with a memory page in the memory. The method includes scanning the pixels associated with the graphic primitive (120) in one of the plurality of blocks (a) into which the graphic primitive extends, repeating the preceding steps until all of the pixels associated with the graphic primitive have been scanned in each of the plurality of blocks into which the graphic primitive extends, and outputting the pixel data.

(30) **Foreign Application Priority Data**

Apr. 15, 1999 (DE) 199 17 092

(51) **Int. Cl.⁷** **G06F 12/02**

(52) **U.S. Cl.** **345/544; 345/443; 345/506**

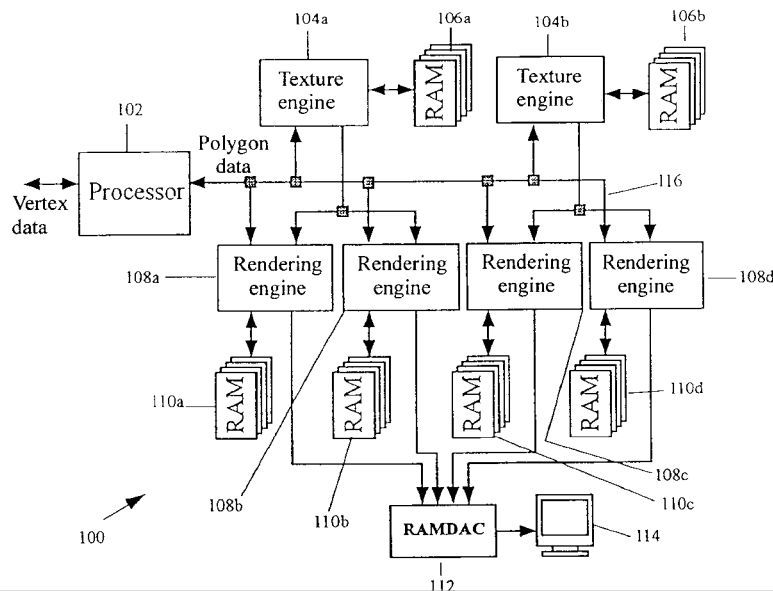
(58) **Field of Search** 345/544, 501, 345/502, 503, 505, 506, 530, 418, 440, 441, 442, 443

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15 Claims, 12 Drawing Sheets



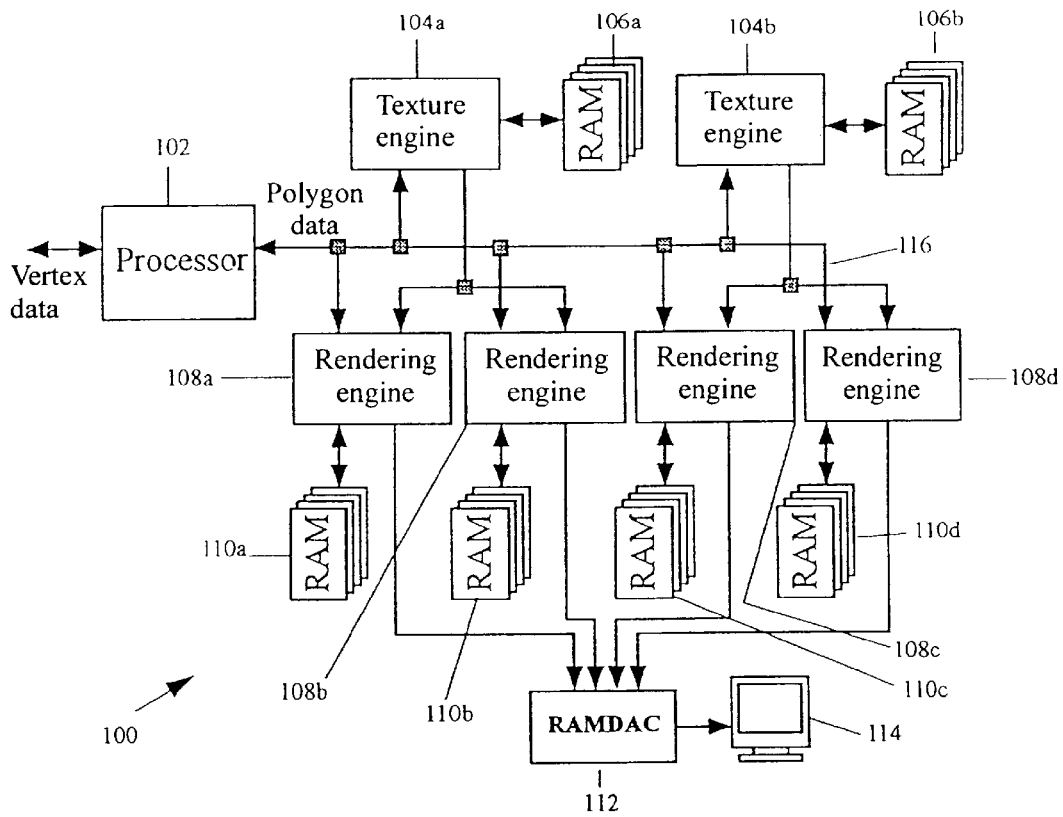


Fig. 1

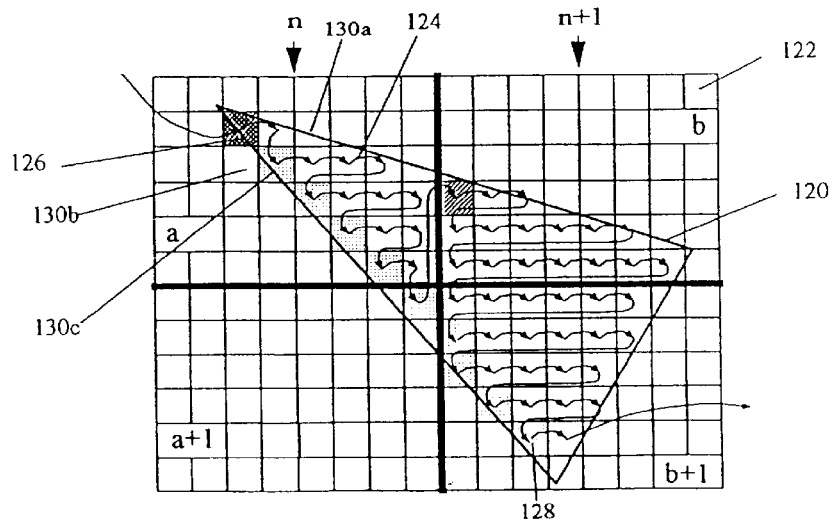


Fig. 2

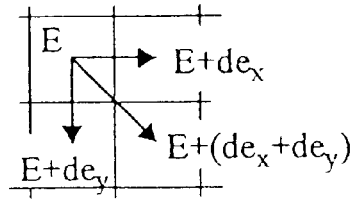


Fig. 3

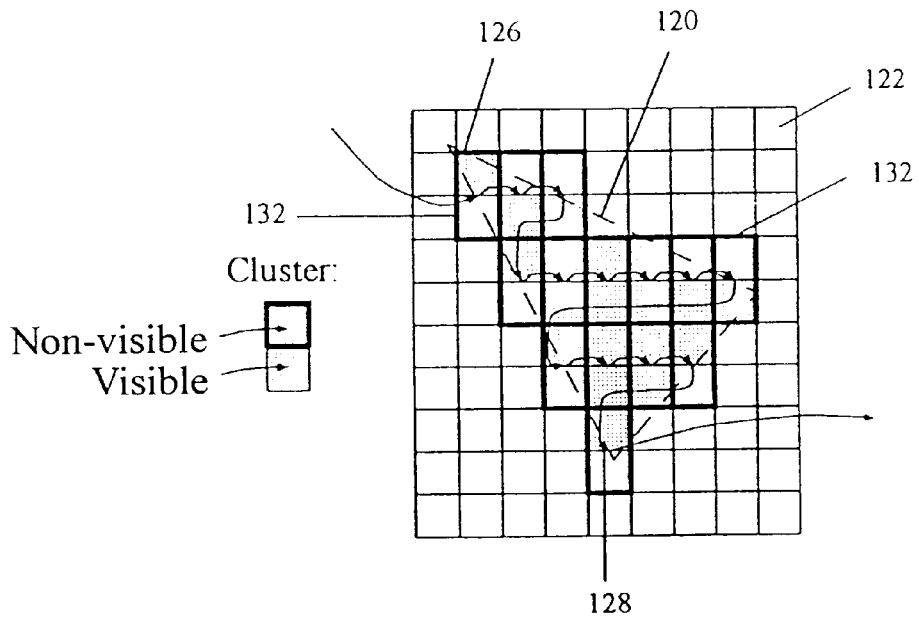
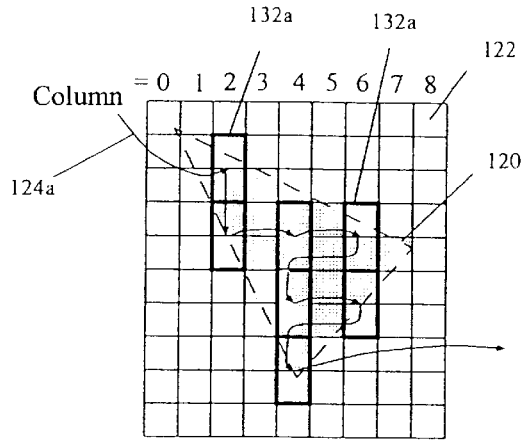


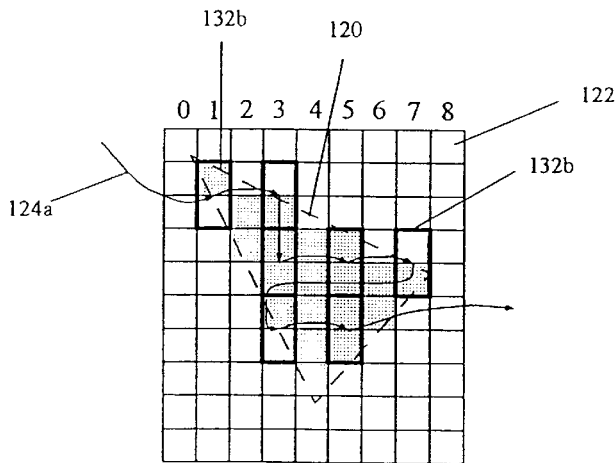
Fig. 4

		clx	
		1	2
cly	1	■	■ ■
	2	■ ■	■ ■ ■ ■

Fig. 5



A)



B) Fig. 6

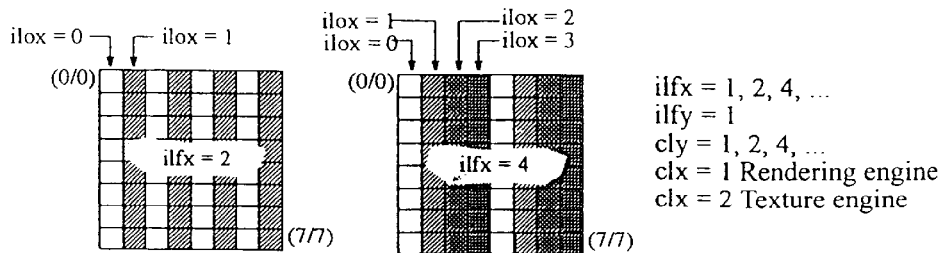


Fig. 7

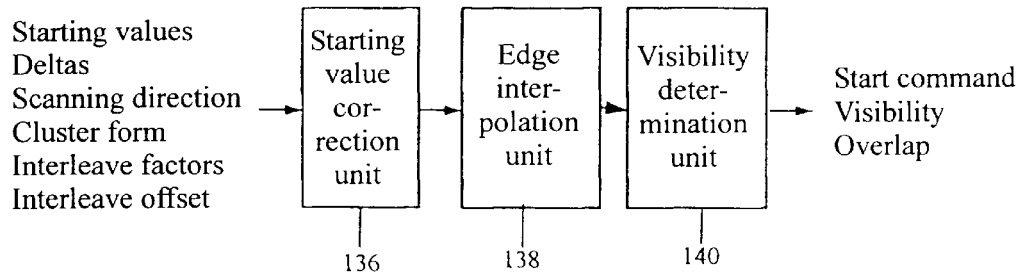


Fig. 8

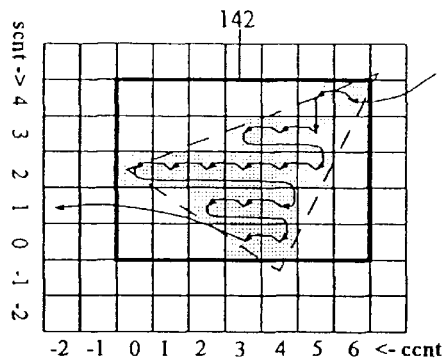


Fig. 9

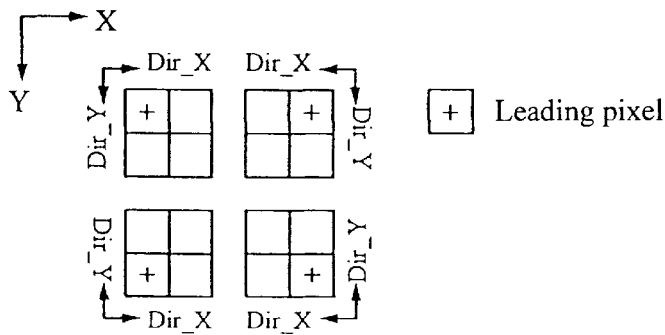


Fig. 10

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