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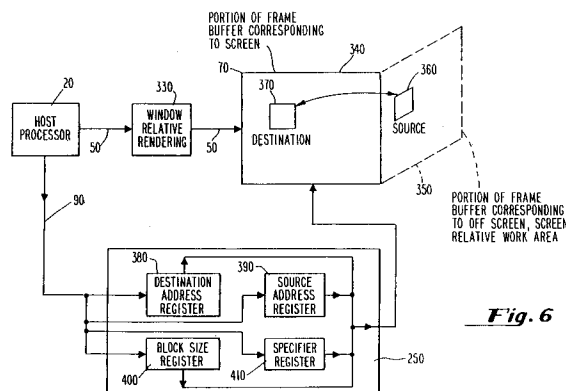
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26.04.95 Bulletin 95/17(71) Applicant: **Hewlett-Packard Company**
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CARPMAELS & RANSFORD
43 Bloomsbury Square
London WC1A 2RA (GB)(54) **Methods and apparatus for accelerating windows in graphics systems.**

(57) Graphics window systems which utilize graphics pipelines and graphics pipeline bypass buses. Hardware solutions for window relative rendering of graphics primitives, block moving of graphics primitives, transfer of large data blocks, and elimination of pipeline flushing are disclosed. The hardware implementations provided in accordance with the invention are interfaced along the pipeline bypass bus, thereby eliminating gross overhead processor time for the graphics pipeline and reducing pipeline latency. Methods and apparatus provided in accordance with the invention exhibit significant pipeline efficiency and reductions in time to render graphics primitives to the screen system.

**Fig. 6****EP 0 617 401 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 94 20 1809

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	US-A-4 829 294 (HIDEFUMI IWAMI) * abstract; figures 1-8 * * column 4, line 21 - column 7, line 42 * ---	1, 4, 8, 15, 18, 22, 25
A	EP-A-0 303 290 (DIGITAL EQUIPMENT CORPORATION) * column 6, line 24 - column 6, line 52; figure 1A * -----	2, 9, 16
The present search report has been drawn up for all claims		
Place of search	Date of completion of the search	Examiner
THE HAGUE	23 February 1995	Van Roost, L
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		

TECHNICAL FIELDS
SEARCHED (Int.Cl.5)
G09G