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Glasco

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(54)	METHODS AND APPARATUS FOR		
	RESPONDING TO A REQUEST CLUSTER		

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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 849 days.

This patent is subject to a terminal dis-

claimer.

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(2006.01)

- **U.S. Cl.** **711/146**; 711/118; 711/128; 711/141; 711/144; 711/145; 711/147; 711/148
- (58) Field of Classification Search 711/141, 711/144-147, 128 See application file for complete search history.

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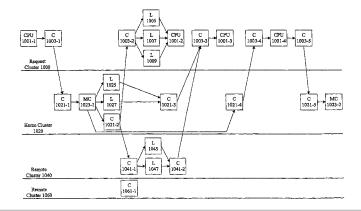
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Primary Examiner—Tuan V Thai Assistant Examiner—Zhuo H Li

ABSTRACT

According to the present invention, methods and apparatus are provided for increasing the efficiency of data access in a multiple processor, multiple cluster system. A home cluster of processors receives a cache access request from a request cluster. The home cluster includes mechanisms for instructing probed remote clusters to respond to the request cluster instead of to the home cluster. The home cluster can also include mechanisms for reducing the number of probes sent to remote clusters. Techniques are also included for providing the requesting cluster with information to determine the number of responses to be transmitted to the requesting cluster as a result of the reduction in the number of probes sent at the home cluster.

35 Claims, 15 Drawing Sheets





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Figure 1A

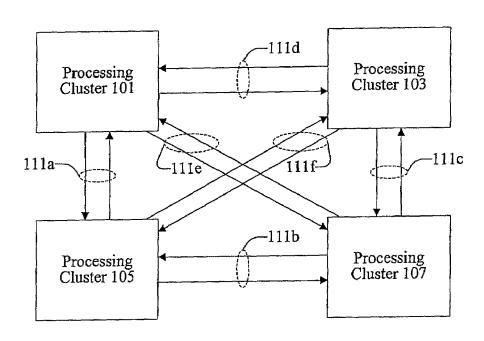
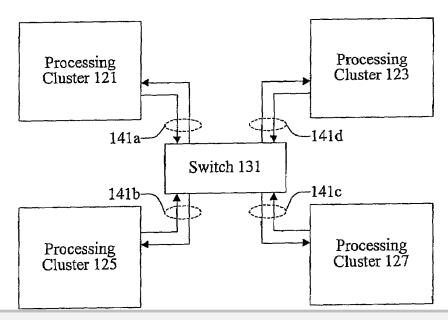


Figure 1B





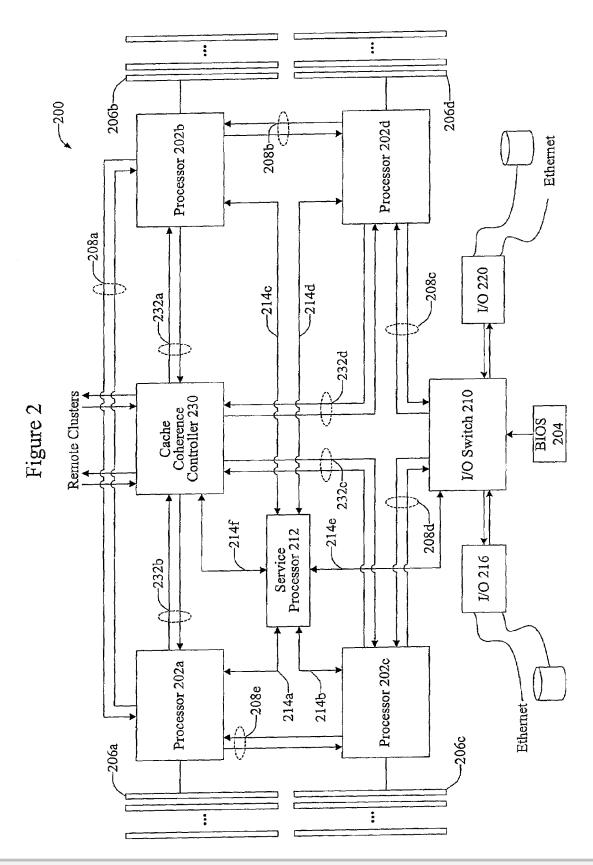
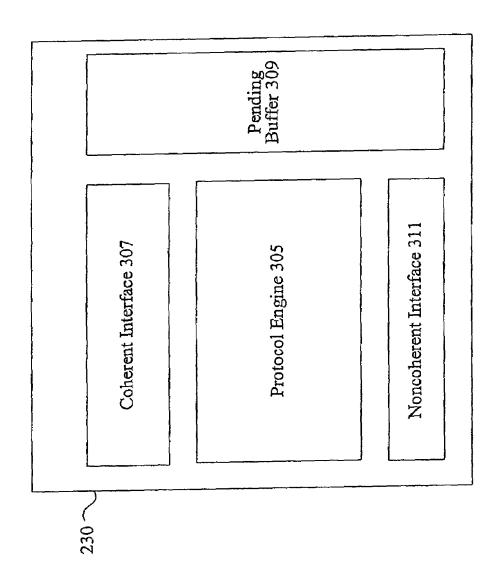




Figure 3



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