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Glasco

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(54) **METHODS AND APPARATUS FOR
MANAGING PROBE REQUESTS**

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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 205 days.

This patent is subject to a terminal disclaimer.

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G06F 12/00 (2006.01)

Multicast snooping: a new coherence method using a multicast address network Bilir, E.E.; Dickson, R.M.; Ying Hu; Plakal, M.; Sorin, D.J.; Hill, M.D.; Wood, D.A.; Computer Architecture, 1999. Proceedings of the 26th International Symposium on, May 2-4, 1999.*

(52) **U.S. Cl.** **711/146; 711/141; 709/216; 709/218**

(58) **Field of Classification Search** **711/141, 711/146, 144, 145; 709/206, 213, 216, 217, 709/218, 219**

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See application file for complete search history.

Primary Examiner—Brian R Peugh

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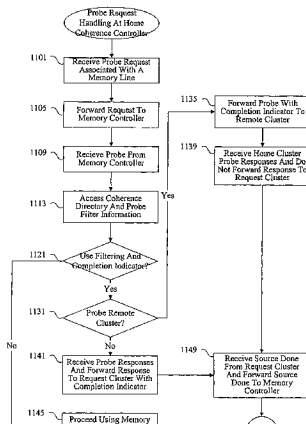
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(57) **ABSTRACT**

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According to the present invention, methods and apparatus are provided for increasing the efficiency of data access in a multiple processor, multiple cluster system. Mechanisms for reducing the number of transactions in a multiple cluster system are provided. In one example, probe filter information is used to limit the number of probe requests transmitted to request and remote clusters.

39 Claims, 17 Drawing Sheets



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Figure 1A

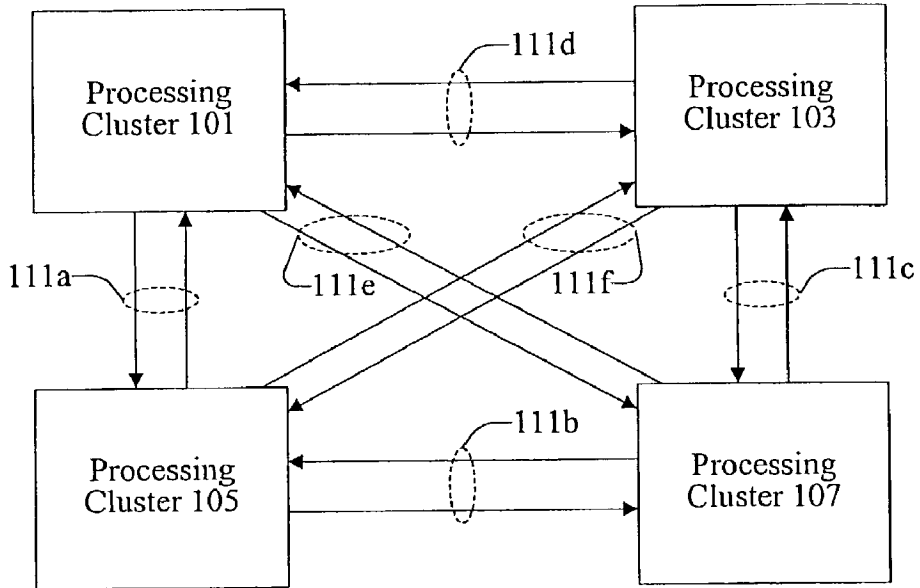


Figure 1B

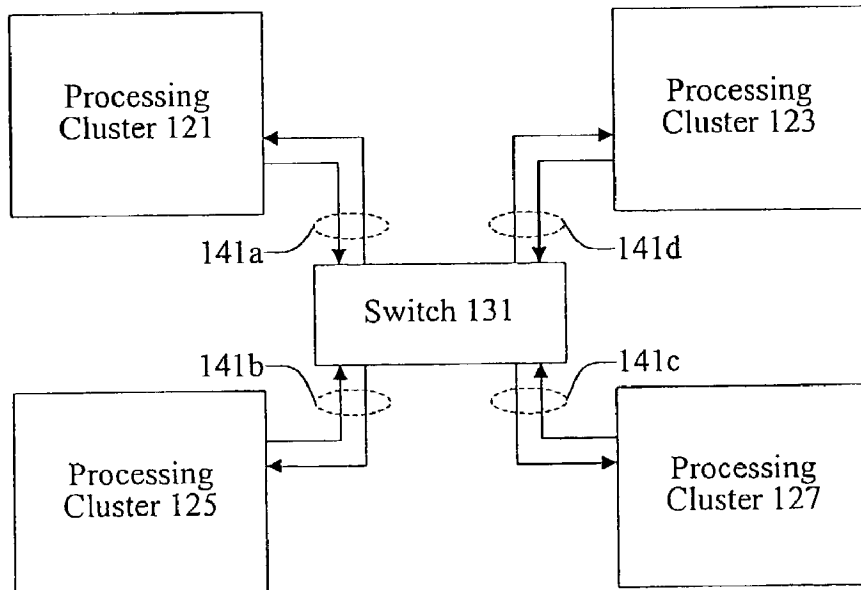


Figure 2

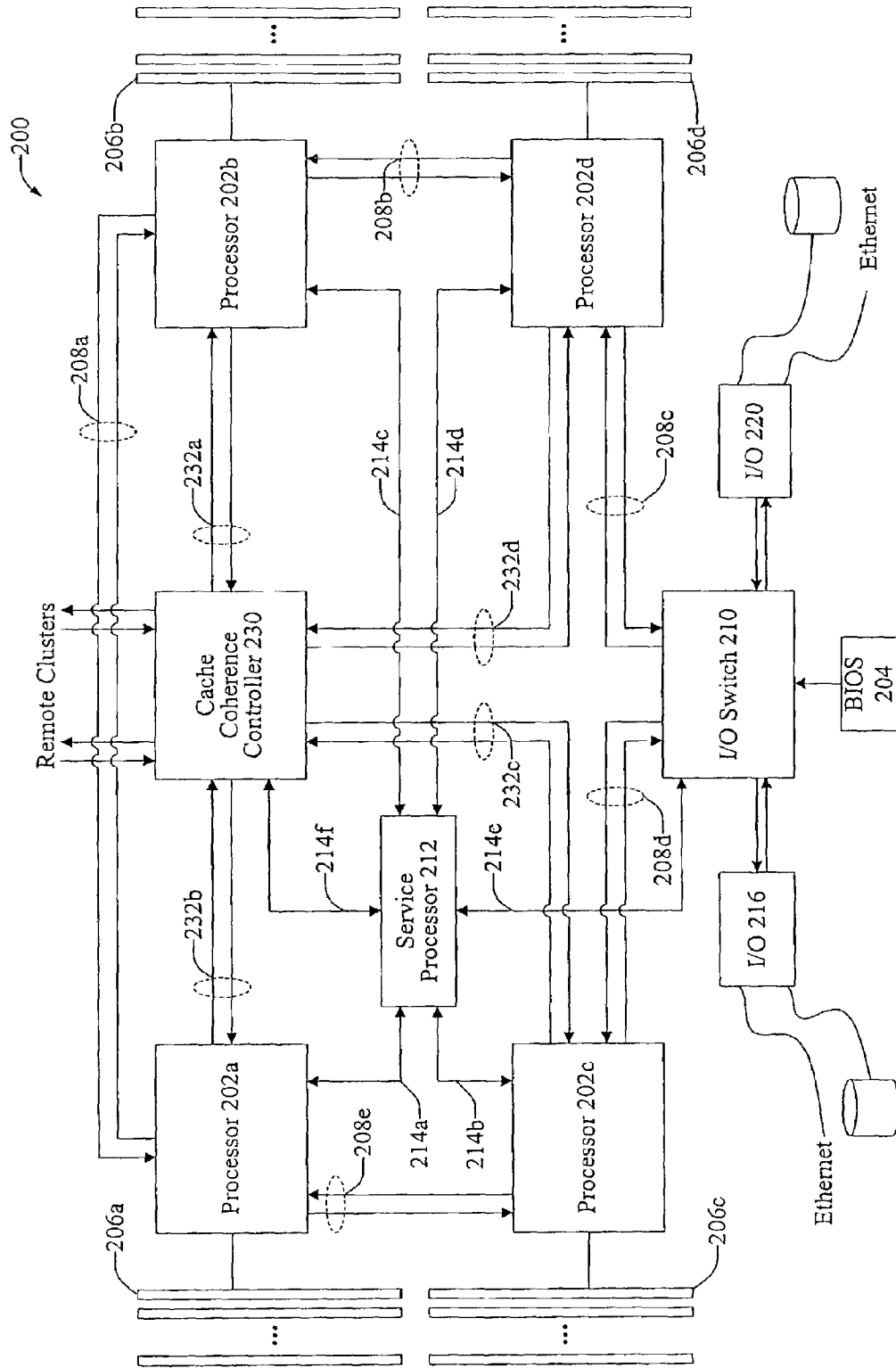
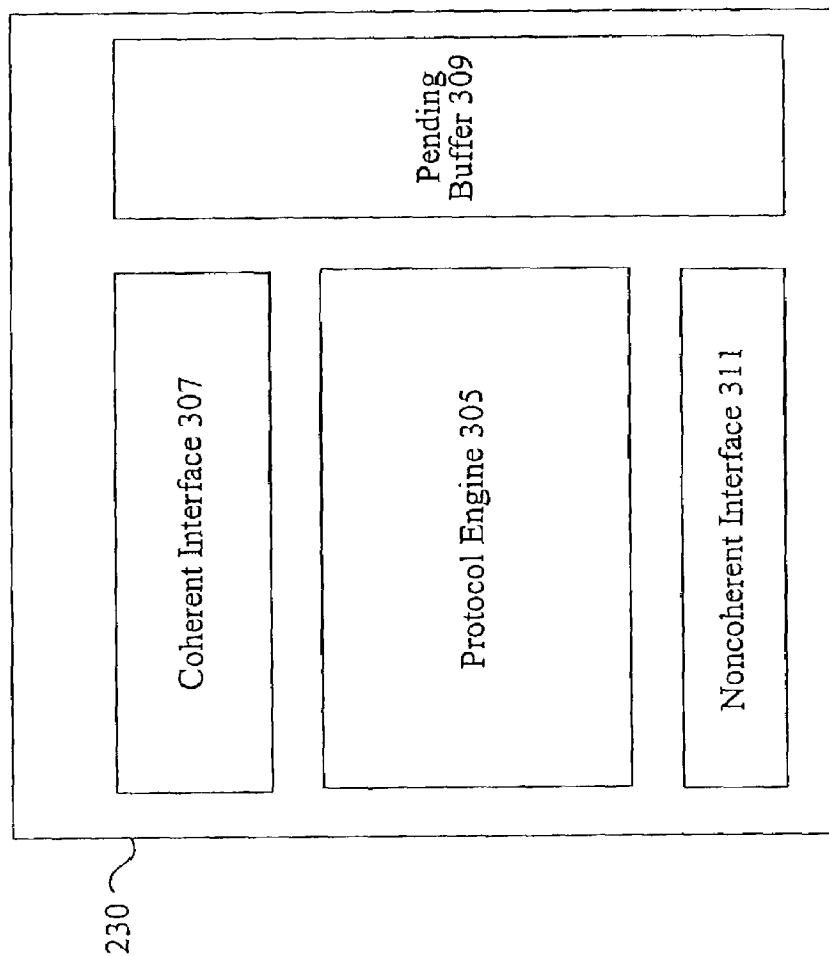


Figure 3



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