
EXHIBIT C

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Huppenthal et al.

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(54) **MULTI-ADAPTIVE PROCESSING SYSTEMS AND TECHNIQUES FOR ENHANCING PARALLELISM AND PERFORMANCE OF COMPUTATIONAL FUNCTIONS**

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G06F 17/00 (2006.01)

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(58) **Field of Classification Search** **712/15,**
 712/19, 226, 215

See application file for complete search history.

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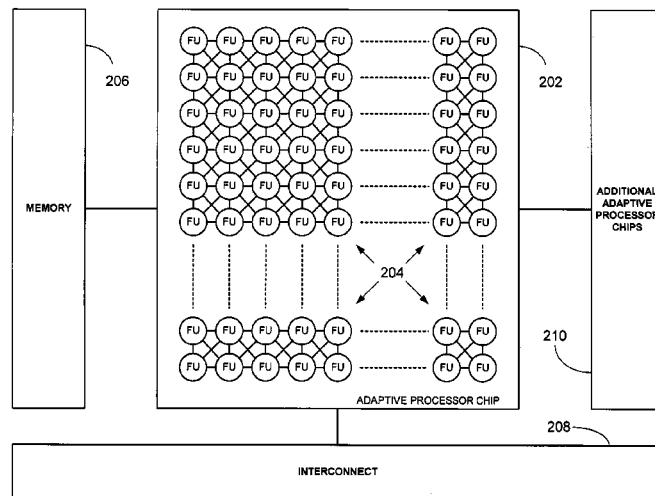
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(57) **ABSTRACT**

Multi-adaptive processing systems and techniques for enhancing parallelism and performance of computational functions are disclosed which can be employed in a myriad of applications including multi-dimensional pipeline computations for seismic applications, search algorithms, information security, chemical and biological applications, filtering and the like as well as for systolic wavefront computations for fluid flow and structures analysis, bioinformatics etc. Some applications may also employ both the multi-dimensional pipeline and systolic wavefront methodologies disclosed.

52 Claims, 20 Drawing Sheets



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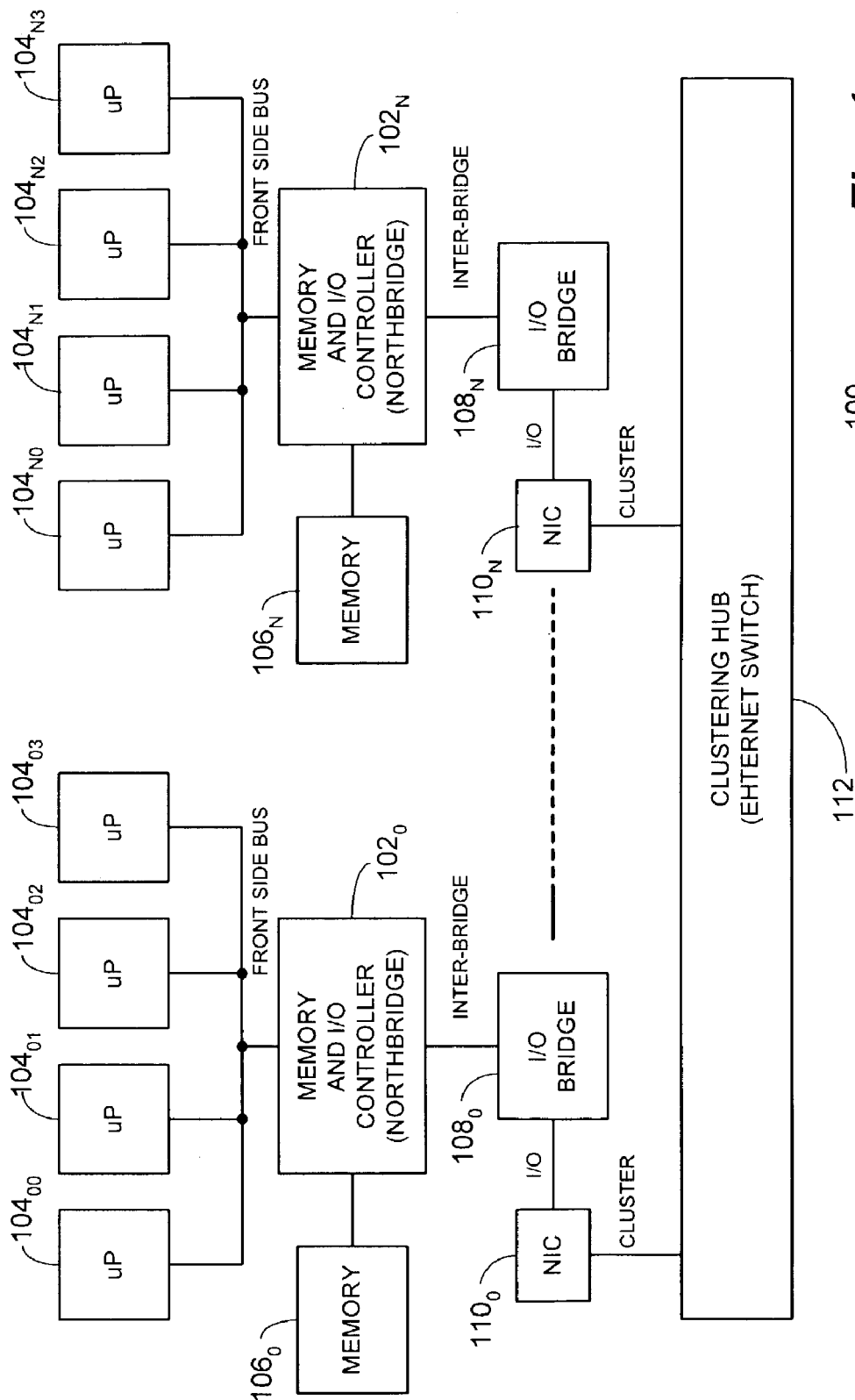


Fig. 1
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