# **EXHIBIT A**

[45]

**Patent Number:** 

**Date of Patent:** 

## United States Patent [19]

Pai et al.

4,899,275	2/1990	Sachs et al	711/3
5,377,345	12/1994	Chang et al	395/425
5,418,973	5/1995	Ellis et al	395/800
5 524 265	6/1006	Dolmor et el	711/212

5,860,158

Jan. 12, 1999

	REQUEST TRANSACTION-ORIENTED PROTOCOL				
[75]	Inventors:	Yet-Ping Pai, Milpitas: Le T. Nguven.			

[54] CACHE CONTROL UNIT WITH A CACHE

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Assignee: Samsung Electronics Company, Ltd., Seoul, Rep. of Korea

[21] Appl. No.: 751,149

Nov. 15, 1996 [22] Filed:

U.S. Cl. ...... 711/118; 711/130

Field of Search ...... 711/119, 120, 711/130, 140, 118

#### [56] References Cited

#### U.S. PATENT DOCUMENTS

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4,701,844	10/1987	Thompson et al	711/119
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4,899,275	2/1990	Sachs et al 711/3
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5,418,973	5/1995	Ellis et al 395/800
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5,574,849	11/1996	Sonnier et al 395/182.1
5,659,782	8/1997	Senter et al 395/800.23

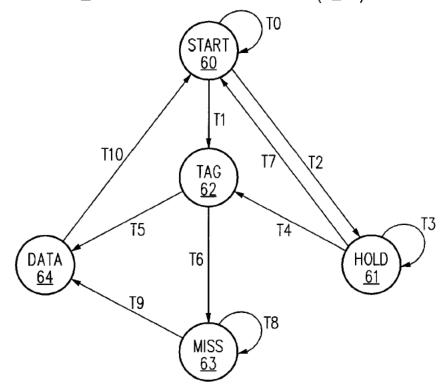
Primary Examiner—Tod R. Swann Assistant Examiner-Felix B. Lee Attorney, Agent, or Firm-Skjerven, Morrill, MacPherson, Franklin & Friel, L.L.P.; Stephen A. Terrile

### ABSTRACT

A cache control unit and a method of controlling a cache. The cache is coupled to a cache accessing device. A first cache request is received from the device. A request identification information is assigned to the first cache request and provided to the requesting device. The first cache request may begin to be processed. A second cache request is received from the cache accessing device. The second cache request is assigned to the first cache request and provided to the requesting device. The first and second cache requests are finally fully serviced.

### 37 Claims, 8 Drawing Sheets

### ARM\_CCU INTERFACE STATE MACHINE (A\_SM)



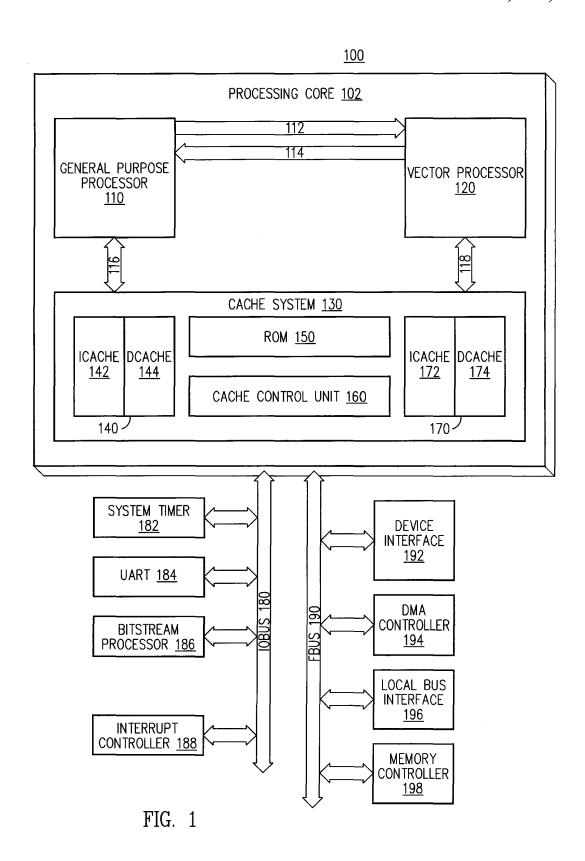


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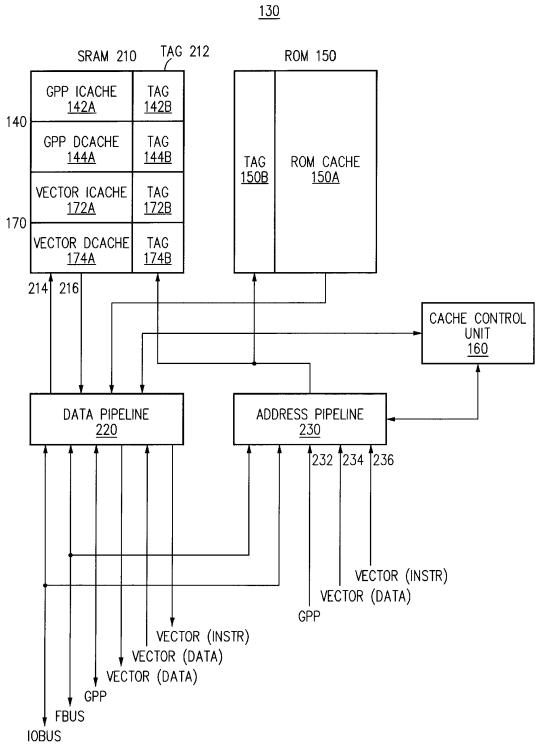
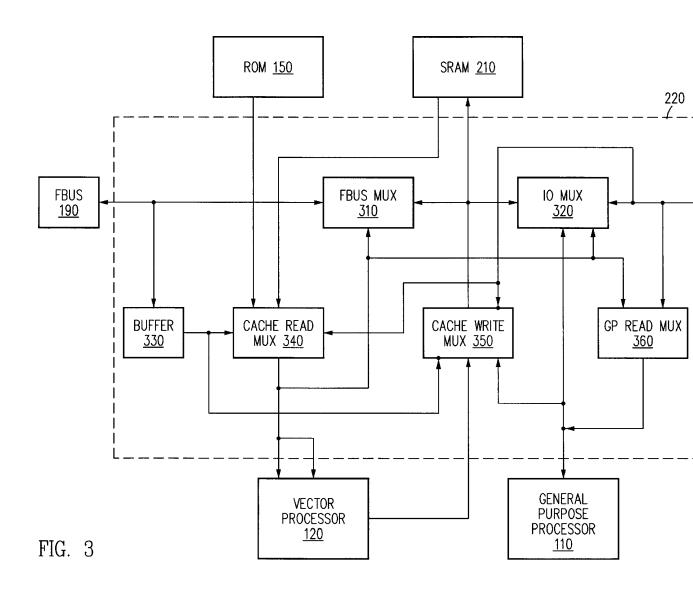


FIG. 2



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