

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2002/0053004 A1 **PONG**

May 2, 2002 (43) Pub. Date:

- (54) ASYNCHRONOUS CACHE COHERENCE ARCHITECTURE IN A SHARED MEMORY MULTIPROCESSOR WITH POINT-TO-POINT LINKS
- (76) Inventor: FONG PONG, MOUNTAIN VIEW, CA (US)

Correspondence Address: **IP ADMINISTRATION LEGAL DEPARTMENT 20BN** HEWLETT PACKARD COMPANY PO BOX 10301 PALO ALTO, CA 943030890

(*) Notice: This is a publication of a continued prosecution application (CPA) filed under 37

CFR 1.53(d).

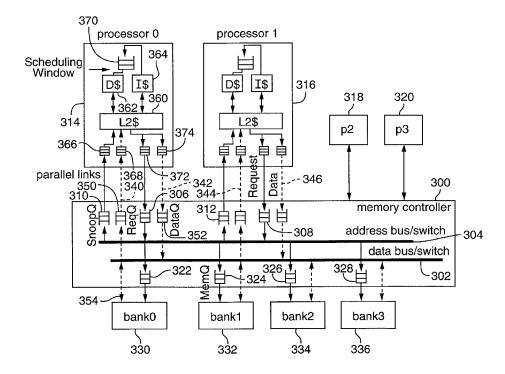
09/444,173 (21) Appl. No.:

(22)Nov. 19, 1999 Filed:

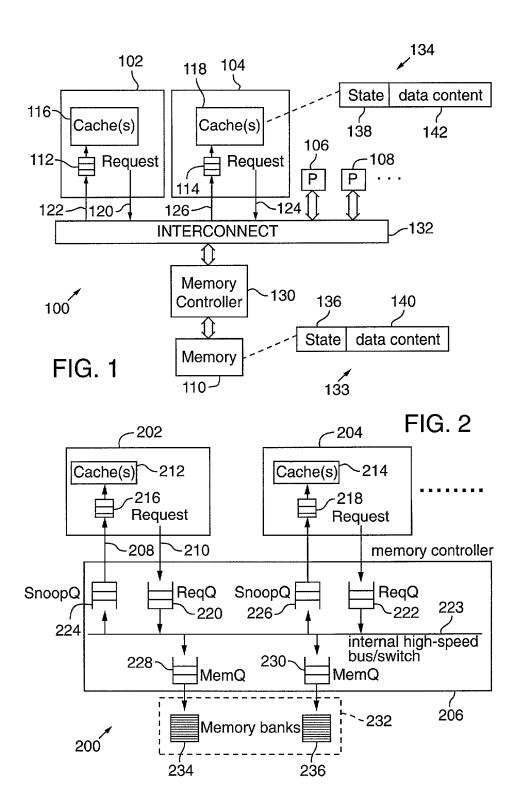
Publication Classification

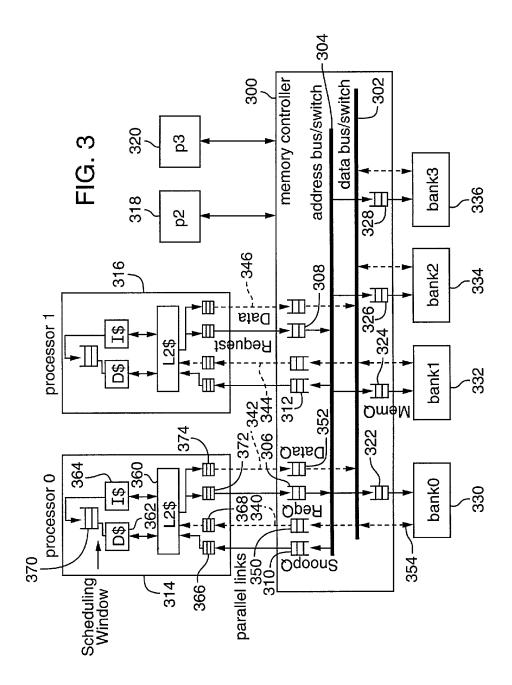
(57)ABSTRACT

In a shared memory, multiprocessor system, an asynchronous cache coherence method associates state information with each data block to indicate whether a copy of the data block is valid or invalid. When a processor in the multiprocessor system requests a data block, it issues the request to one or more other processors and the shared memory. Depending on the implementation, the request may be broadcast, or specifically targeted to processors having a copy of the requested data block. Each of the processors and memory that receive the request independently check to determine whether they have a valid copy of the requested data block based on the state information. Only the processor or memory having a valid copy of the requested data block responds to the request. The memory control path between each processor and a shared memory controller may be implemented with two unidirectional and dedicated point-to-point links for sending and receiving requests for blocks of data.

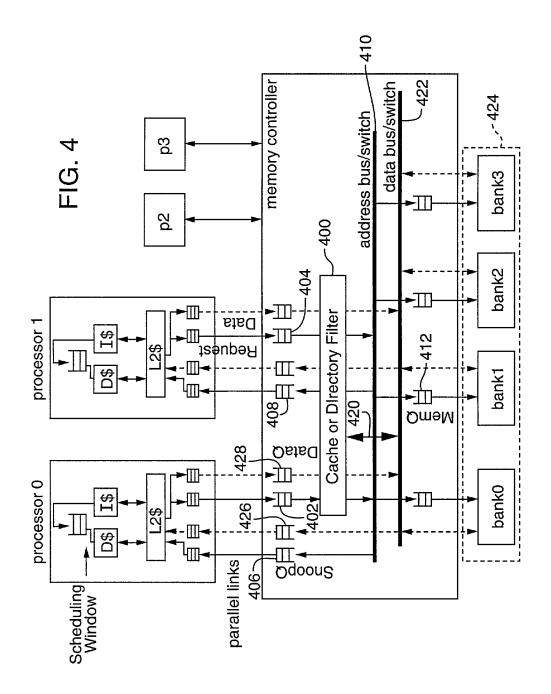


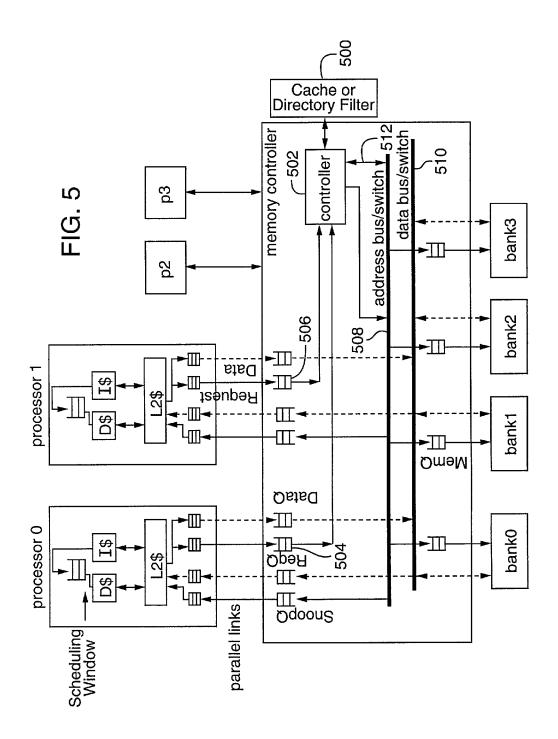














DOCKET A L A R M

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

