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# **Patent Owner Plectrum LLC**

Unified Patents Inc. v. Plectrum LLC
Case: IPR2017-01430
Patent 5,978,951

Oral Hearing August 2, 2018

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# **Outline**

- '951 Patent Background
- Cheriton
- Grounds 1, 2, and 3 "Row" Limitations of Claims 1, 2, and 21
- Grounds 3 and 4 Rationale for Combining Cheriton And Jain References



# '951 Patent Background

# '951 Patent Background

### United States Patent [19]

Lawler et al.

[54] HIGH SPEED CACHE MANAGEMENT UNIT FOR USE IN A BRIDGE/ROUTER

[75] Inventors: Christopher P. Lawler, Wellesley; Shannon Q. Hill, Westford; David Lipschurt, Lexington; Thomas A. Radogna, Westborough; John A. Flanders, Ashland; Robert M. France, Littleon; Stephen L. Van Seters, Stow,

[73] Assignce: 3Com Corporation, Santa Clara, Calif.

[22] Filed: Sep. 11, 1997

H03M 13/00 714/758; 370/392; 370/401 371/37.07, 37.7; [51] Int. Cl.<sup>6</sup> . [52] U.S. Cl. .. [58] Field of Search 370/232, 253, 392, 401, 402, 466; 395/286,

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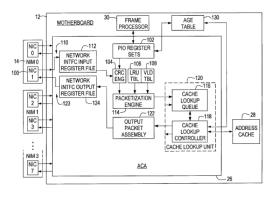
Primary Examiner-Emmanuel L. Moise Attorney, Agent, or Firm—Weingarten, Schurgin, Gagnebin & Hayes LLP

ABSTRACT

[45] Date of Patent:

[57] A method and cache management for a bridge or bridge/ router providing high-speed, flexible address cache manage-ment. The unit maintains a network address cache and age table, searches the cache for layer 2 and layer 3 addresses, particularly addressed to the cache for layer 2 and layer 3 addresses. The cache of the cache and age table, and supports a 4-way set associative cache to store the network addresses. A plurality of functions implemented in hardware enables software manaplation of the seasociated cache. Four cache software manaplation of the sociated cache. Four cache software manaplation of the sociated cache. Four cache select destination ports within a Load Balanced Pert Group for frame forwarding. The unit utilizes Virtual LAX Midentifor frame forwarding. The unit utilizes Virtual LAN identifor frame forwarding. The unit utilizes Virtual LAN identification in conjunction with a MAC address for lookup in the cache. A cyclic redundancy code for each address to be called the cache that the cache the cache cache lookup counts are provided, each consisting of a cache lookup controller for comparing a received network address to an address retrieved from an identified cache set.

### 26 Claims, 14 Drawing Sheets



# [54] HIGH SPEED CACHE MANAGEMENT UNIT FOR USE IN A BRIDGE/ROUTER

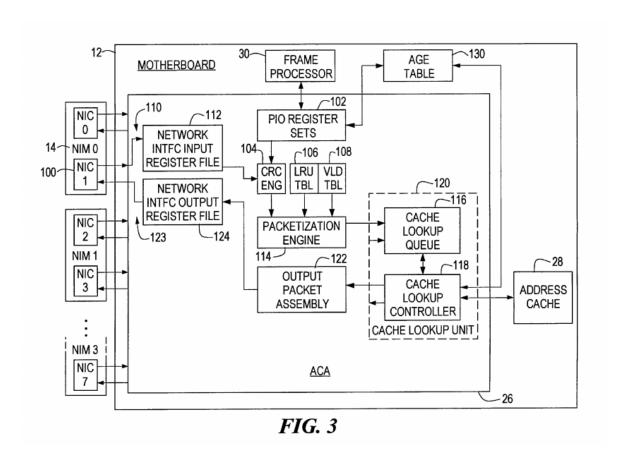
Assignee: 3Com Corporation, Santa Clara, Calif.

Appl. No.: 08/927,336 [21]

Sep. 11, 1997 Filed:

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# '951 Patent Background



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