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**Sivasankaran et al.**

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- (54) **LAN SWITCH WITH RAPID FAULT RECOVERY**
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**Related U.S. Application Data**

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- (51) **Int. Cl.**  
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- (52) **U.S. Cl.** ..... **370/216; 370/217; 370/218; 370/219; 370/225; 370/228**
- (58) **Field of Classification Search** ..... **370/216, 370/225, 217-219, 256, 255, 258, 396-398, 370/395.31, 395.53, 400, 401**  
See application file for complete search history.

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(57) **ABSTRACT**

One embodiment disclosed relates to a method of fault recovery by a switch in a local area network. A link failure is detected at a port of the switch. In response to the link failure detection, a medium access control (MAC) address table of the switch is cleared. Clearing the address table causes a discovery process to fill the table to begin immediately. In addition, a link on another port of the switch may be dropped to propagate the link failure.

**16 Claims, 4 Drawing Sheets**

