

EXHIBIT 3

(12) **United States Patent**
Reumann et al.

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(54) **MOVEABLE ACCESS CONTROL LIST (ACL) MECHANISMS FOR HYPERVISORS AND VIRTUAL MACHINES AND VIRTUAL PORT FIREWALLS**

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(65) **Prior Publication Data**

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(51) **Int. Cl.**
G06F 9/455 (2006.01)

(52) **U.S. Cl.** 718/1; 709/250; 718/102

(58) **Field of Classification Search** 709/250;
 718/1, 102

See application file for complete search history.

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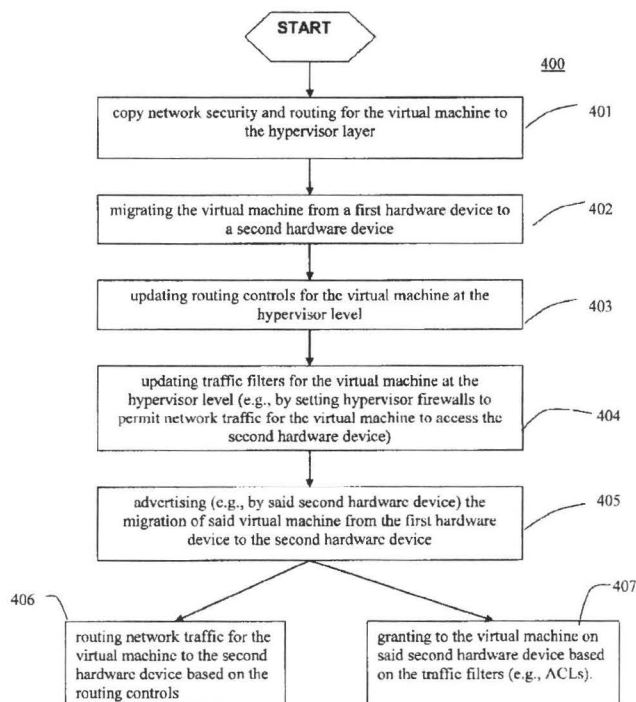
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(57) **ABSTRACT**

A method (and system) which provides virtual machine migration with filtered network connectivity and control of network security of a virtual machine by enforcing network security and routing at a hypervisor layer at which the virtual machine partition is executed, and which is independent of guest operating systems.

17 Claims, 18 Drawing Sheets



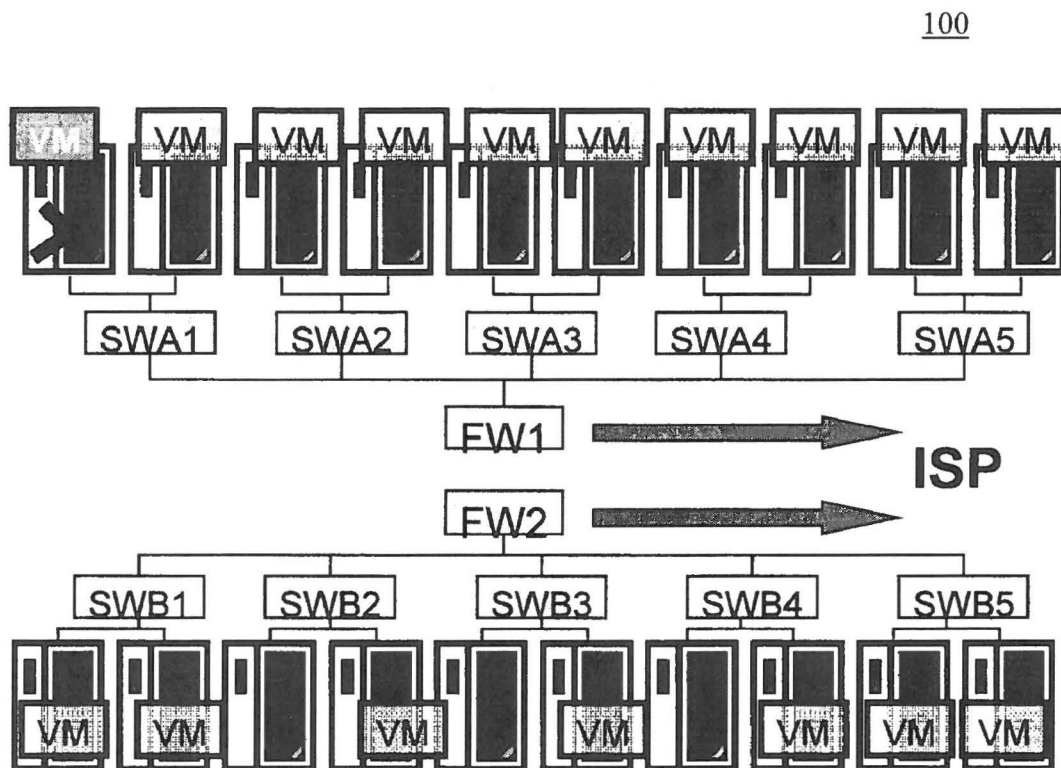
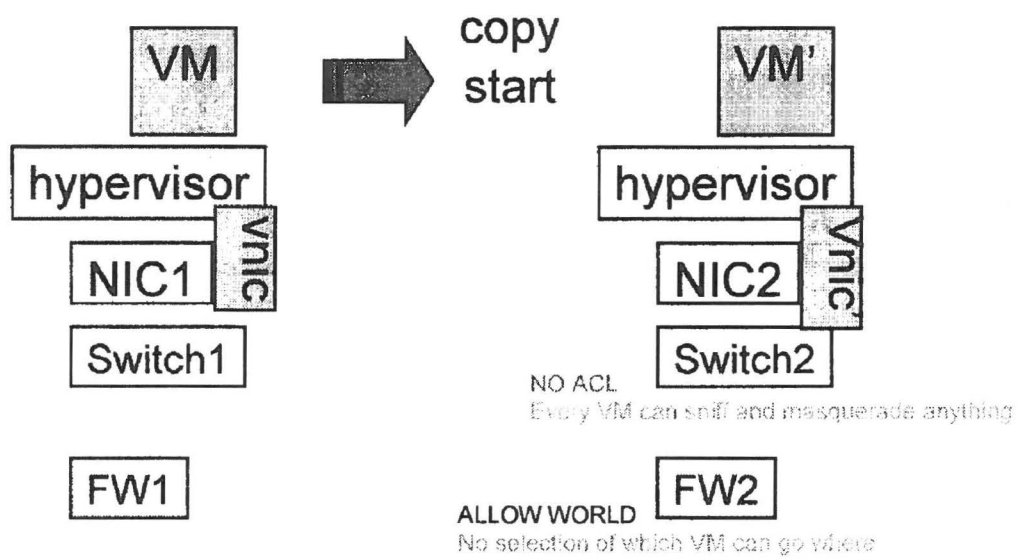


FIGURE 1

200**FIGURE 2**

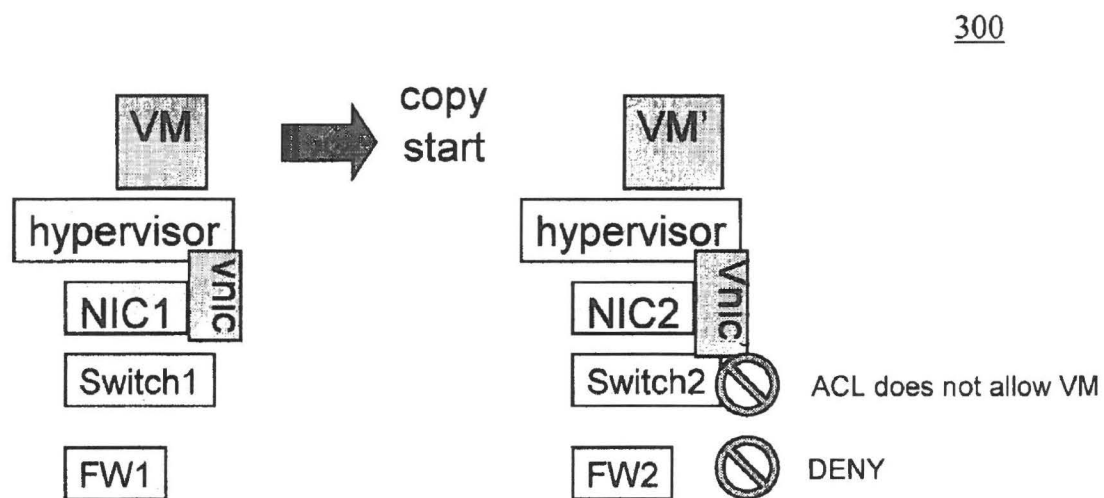


FIGURE 3

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