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Doctor et al.

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(54) **HYBRID CLOUD NETWORK MONITORING
SYSTEM FOR TENANT USE**

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Related U.S. Application Data

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- (51) **Int. Cl.**
H04L 29/08 (2006.01)
H04L 12/46 (2006.01)
H04L 12/26 (2006.01)

- (52) **U.S. Cl.**
CPC **H04L 67/10** (2013.01); **H04L 12/4633**
(2013.01); **H04L 43/062** (2013.01); **H04L**
43/12 (2013.01)

- (58) **Field of Classification Search**
CPC ... H04L 67/10; H04L 12/4633; H04L 43/062;
H04L 43/12
USPC 709/224
See application file for complete search history.

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Primary Examiner — Esther B. Henderson

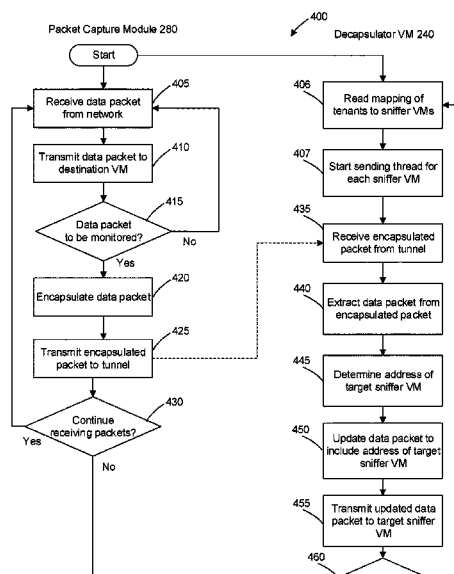
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(57) **ABSTRACT**

Network traffic in a cloud computing system is monitored in response to a request to capture network traffic of a tenant port of a first virtual machine (VM) executing in the cloud computing system, wherein the first VM is associated with a first tenant organization different from a second organization managing the cloud computing system. A decapsulating VM having a first network interface and a second network interface is instantiated, wherein the decapsulating VM is inaccessible to the first tenant organization. An encapsulated port mirroring session from the tenant port of the first VM to the first network interface of the decapsulating VM is then established. A plurality of packets comprising captured network traffic received via the encapsulated port mirroring session are decapsulated, and the captured network traffic is forwarded via the second network interface of the decapsulating VM to a sniffer VM.

14 Claims, 4 Drawing Sheets



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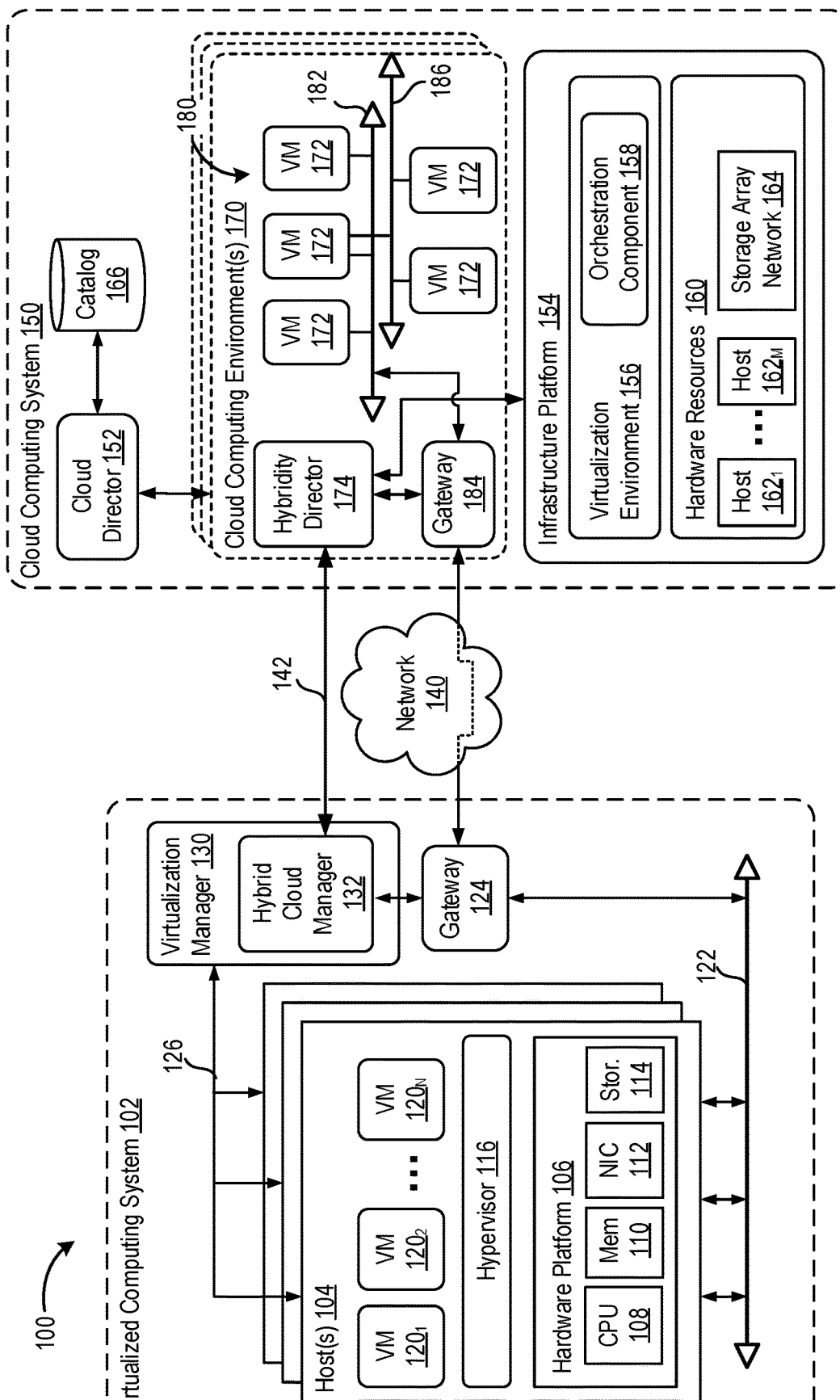


FIG. 1

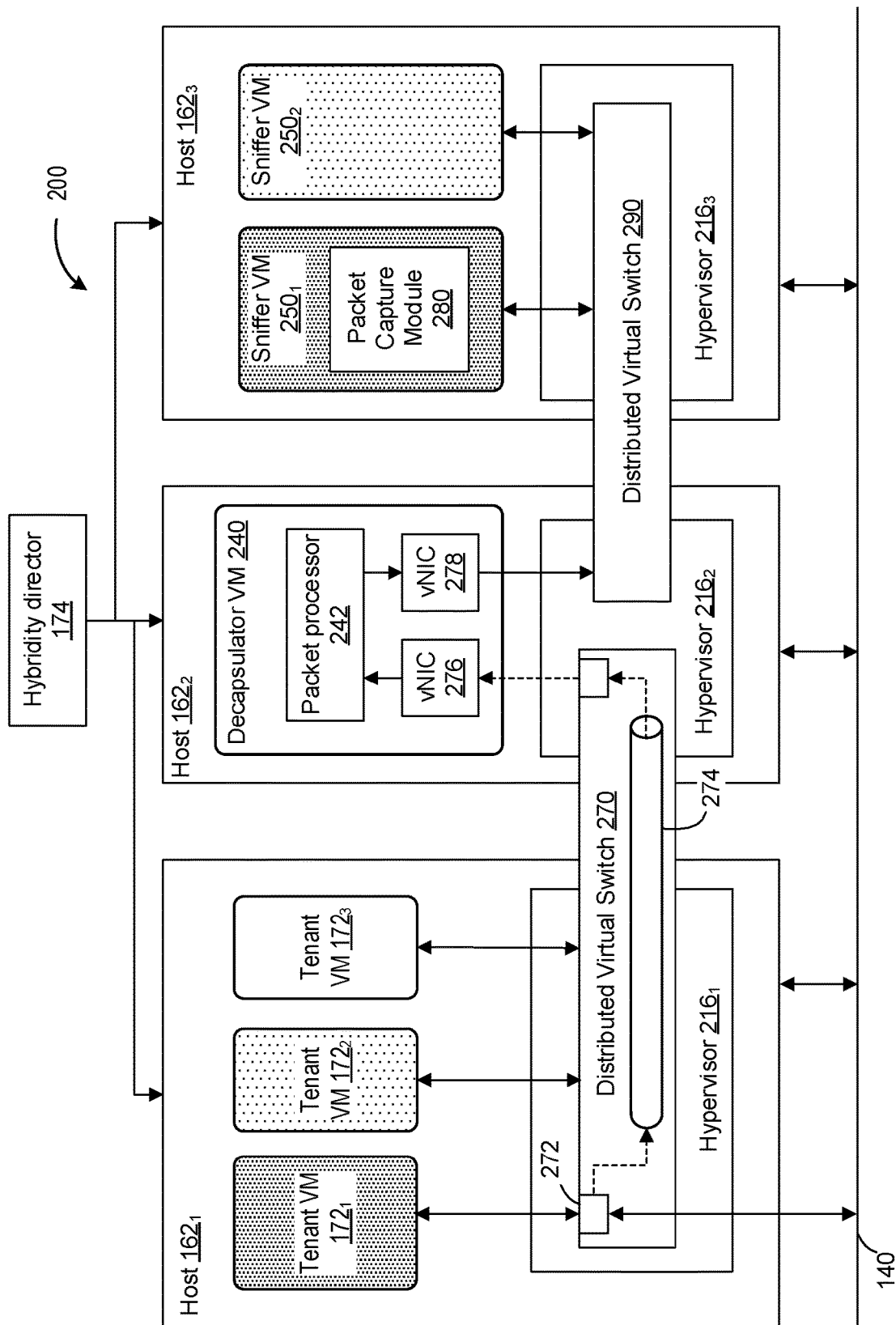


FIG. 2

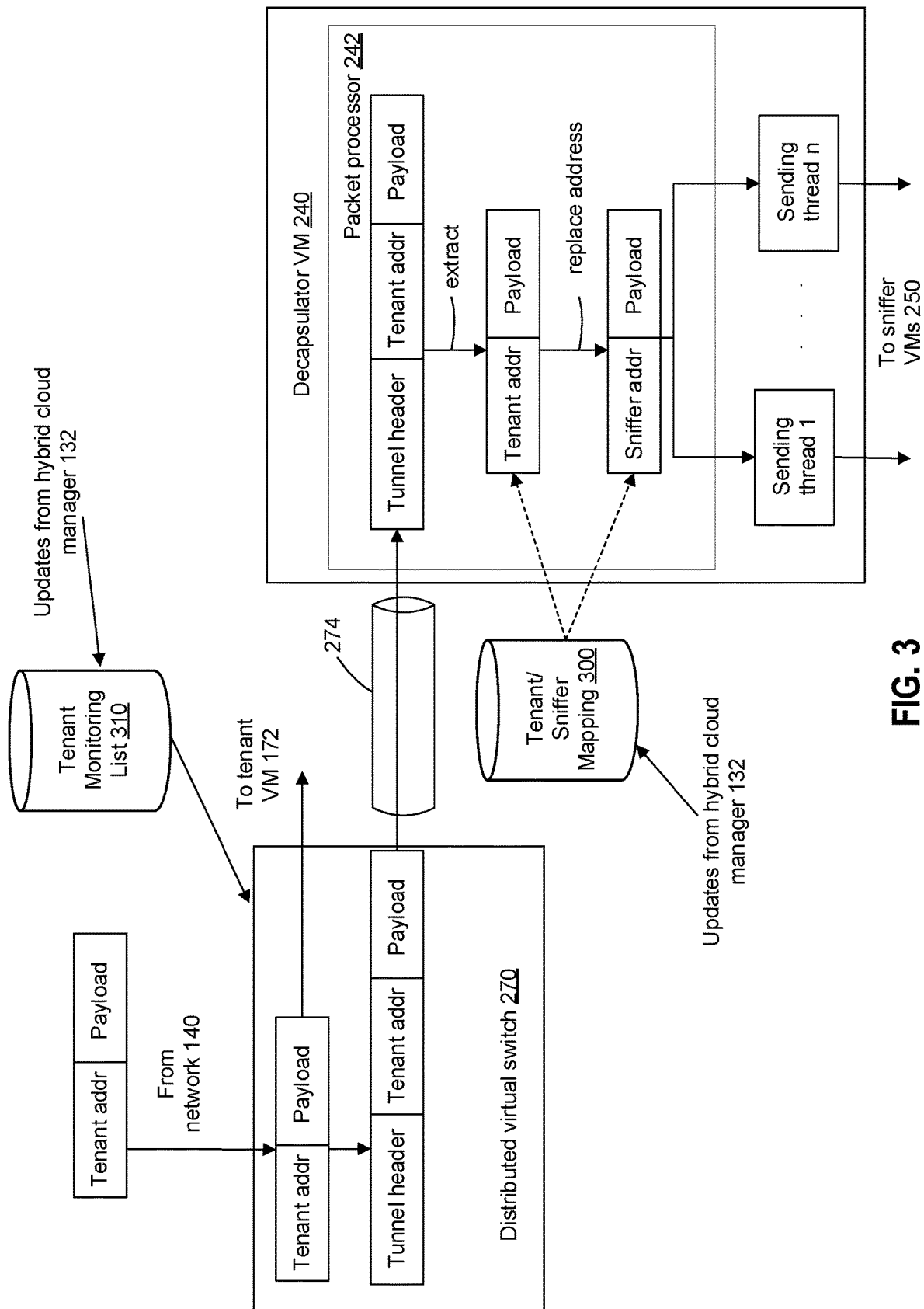


FIG. 3

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