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**Chua et al.**

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(54) **HIGH AVAILABILITY FOR SOFTWARE  
DEFINED NETWORKS**

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- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 38 days.  
  
This patent is subject to a terminal disclaimer.

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**Related U.S. Application Data**

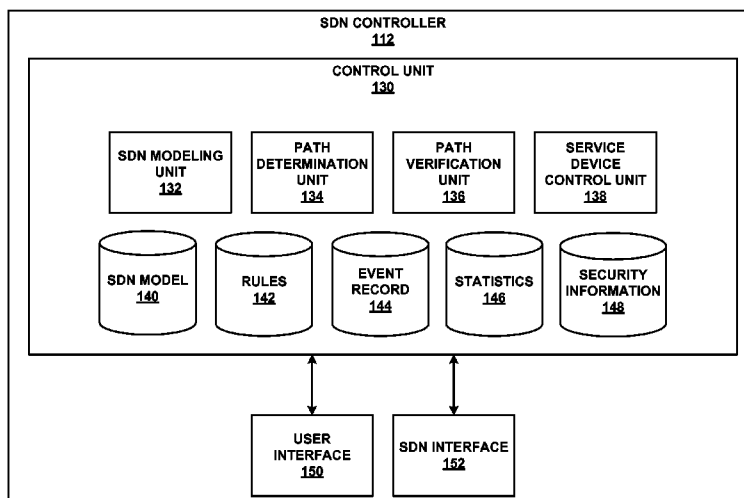
- (60) Provisional application No. 61/703,692, filed on Sep. 20, 2012.
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**G01R 31/08** (2006.01)  
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USPC ..... 370/252, 254, 238; 709/220, 221; 714/4.2, E11.008  
See application file for complete search history.

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(57) **ABSTRACT**

In one example, a controller device for a software defined network (SDN) includes one or more network interfaces configured to communicate with network devices of the SDN, and one or more processors configured to determine a primary path for network traffic between network devices of the SDN, determine a backup path to the primary path for the network traffic between the network devices of the SDN, and, in response to a failover event, configure the network devices to switch from the primary path to the backup path.

**20 Claims, 9 Drawing Sheets**



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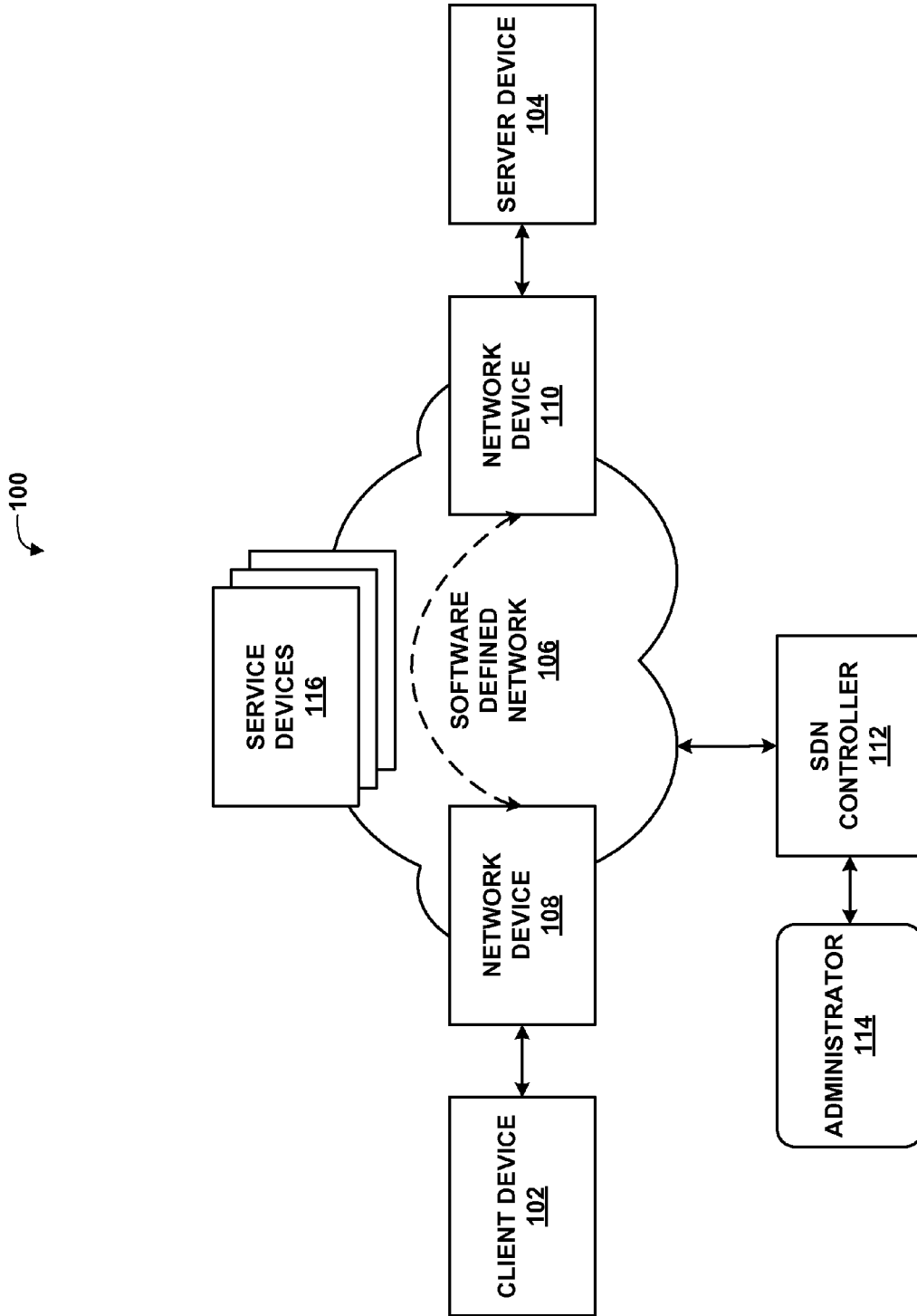


FIG. 1

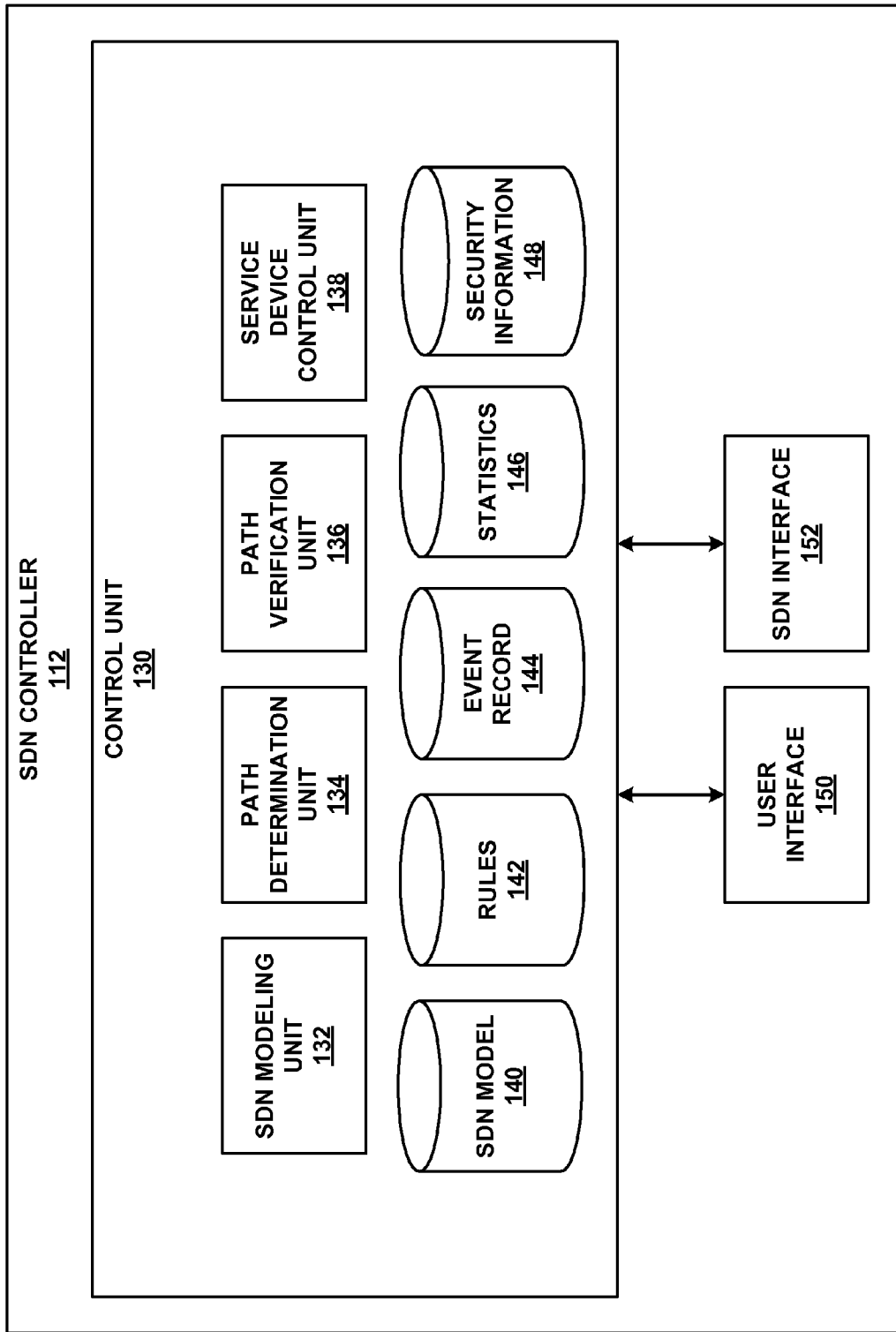


FIG. 2

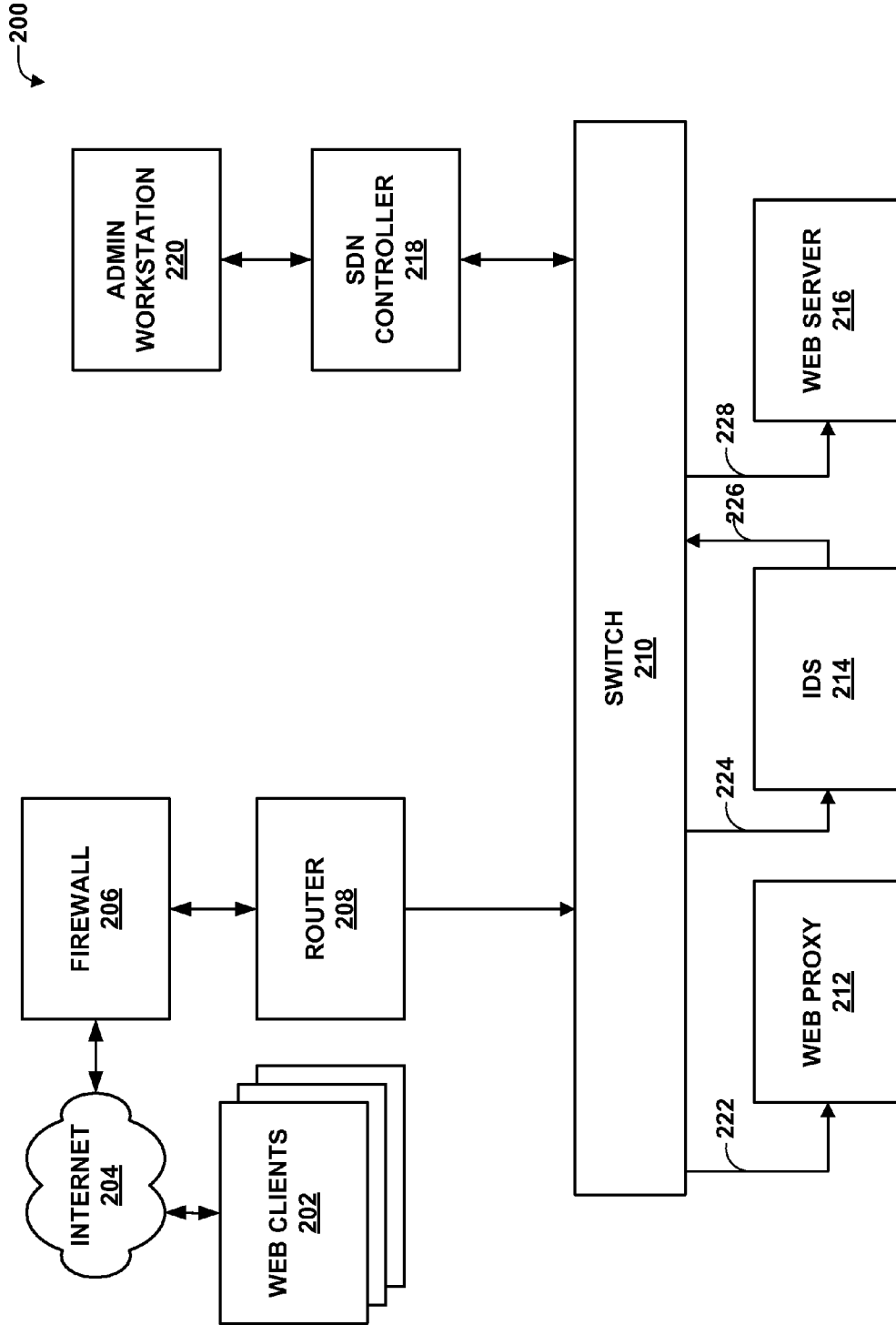


FIG. 3

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