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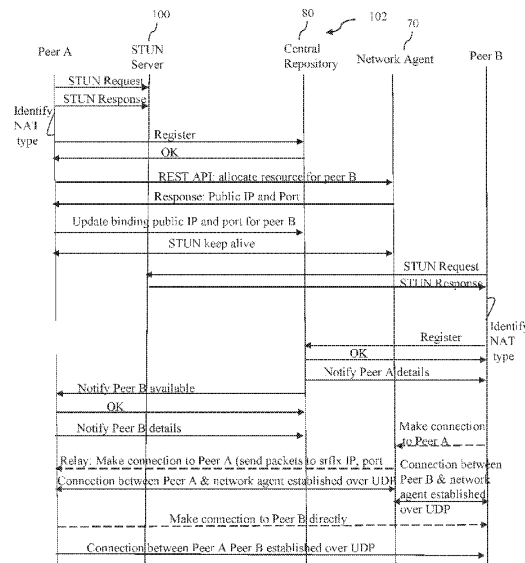


FIG. 3(a)

(57) Abstract: A system for an independent binding of virtual networks overlay using a physical network topology is disclosed. The system includes a plurality of network elements associated with a corresponding plurality of peers. The plurality of network elements creates a virtual network and enable corresponding applications to bind the virtual network to a physical network. The system includes a network agent to establish communication channel between at least two network elements from the plurality of network elements, where a network element from a set of at least two network elements is configured to identify status of the one or more physical network. The network element is also configured to relay one or more data packets to another network element from a set of at least two network elements in the physical network using a user datagram protocol based on the status of the one or more physical network Identified.

[Continued on next page]

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