# Cisco Systems, Inc. and Juniper Networks, Inc. v. Orckit Corporation

# Patent Owner Demonstratives IPR2023-00554 U.S. Patent No. 10,652,111 July 9, 2024

ames Carmichael Steve McBride Witch Yang Carmichael IP, PLLC

Michael Ng George Stamatopoulos Cobre & Kim LLP



### <sup>∡</sup>IThe '111 Patent

.The Challenged Claims Are Patentable

### nited States Patent

US 10,652,111 B2 (10) Patent No.:

(45) Date of Patent:

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#### ETHOD AND SYSTEM FOR DEEP PACKET SPECTION IN SOFTWARE DEFINED

nolicant: ORCKIT IP, LLC, Newton, MA (US)

ventors: Yossi Barsheshet, Ashdod (IL); Simhon Doctori, Gan-Yavne (IL): Ronen Solomon, Ranat-Gan (IL)

ssignee: ORCKIT IP, LLC, Dover, DE (US)

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 306 days.

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Sep. 15, 2016

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(2006.01) (Continued)

S. Cl. H04L 43/028 (2013.01): H04L 12/6418 (2013.01): H04L 43/026 (2013.01): (Continued)

(58) Field of Classification Search

CPC . H04L 43/026; H04L 12/6418; H04L 43/028;

(Continued)

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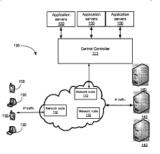
Primary Examiner - Jae Y Lee

Assistant Examiner - Jean F Voltaire (74) Attorney, Agent, or Firm - May Patents Ltd. c/o

Dorit Shem-Toy

#### ABSTRACT

A method for deep packet inspection (DPI) in a software defined network (SDN). The method includes configuring a plurality of network nodes operable in the SDN with at least one probe instruction; receiving from a network node a first packet of a flow, the first packet matches the at least one probe instruction and includes a first sequence number; receiving from a network node a second packet of the flow, the second packet matches the at least one probe instruction and includes a second sequence number, the second packet is a response of the first packet; computing a mask value respective of at least the first and second sequence numbers indicating which bytes to be mirrored from subsequent packets belonging to the same flow; generating at least one (Continued)



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#### (57)ABSTRACT

A method for deep packet inspection (DPI) in a software defined network (SDN). The method includes configuring a plurality of network nodes operable in the SDN with at least one probe instruction; receiving from a network node a first packet of a flow, the first packet matches the at least one probe instruction and includes a first sequence number; receiving from a network node a second packet of the flow, the second packet matches the at least one probe instruction and includes a second sequence number, the second packet is a response of the first packet; computing a mask value respective of at least the first and second sequence numbers indicating which bytes to be mirrored from subsequent packets belonging to the same flow; generating at least one

Ex. 1001 ['111 Patent], p. 1

 A method for use with a packet network including a network node for transporting packets between first and second entities under control of a controller that is external to the network node, the method comprising:

sending, by the controller to the network node over the packet network, an instruction and a packet-applicable criterion;

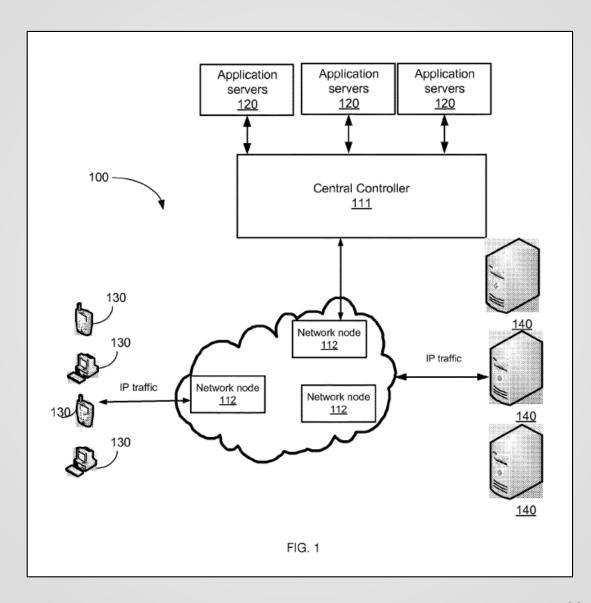
receiving, by the network node from the controller, the instruction and the criterion; receiving, by the network node from the first entity over the packet network, a packet addressed to the second entity;

checking, by the network node, if the packet satisfies the criterion;

responsive to the packet not satisfying the criterion, sending, by the network node over the packet network, the packet to the second entity; and

responsive to the packet satisfying the criterion, sending the packet, by the network node over the packet network, to an entity that is included in the instruction and is other than the second entity.

Ex. 1001, Cl. 1.



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